
PERSONAL INFORMATION

First name: MARÍA

Surname: VALLET REGÍ

Position: FULL PROFESSOR AT THE PHARMACY FACULTY

Name of Institution: UNIVERSITY COMPLUTENSE OF MADRID

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Researcher unique identifier(s):

- Thompson Reuters: **ResearcherID:** M-3378-2014; **ORCID:** 0000-0002-6104-4889
- Google Scholar: <http://scholar.google.es/citations?user=viPyI4EAAA&hl=es&oi=ao>
- <http://www.valletregigroup.es/>
- <http://agening.net/>

EDUCATION

- Bachelor in Chemistry University Complutense of Madrid, UCM, Spain (1964)
- M. Sc. in Chemistry, UCM (1969)
- Ph. D. in Chemistry, UCM (1974)

CURRENT POSITIONS

- Full Professor of Inorganic Chemistry, at the Pharmacy Faculty of UCM, since 1990.
- Head of the Smart Biomaterials Research Group, GIBI, since 1993.
- Group Leader GIBI at the Bioengineering, Biomaterials and Nanomedicine Research Center (CIBER-BBN), since 2007.
- Group Leader GIBI at the Research Institute of Hospital 12 de Octubre (i+12), since 2013.

PREVIOUS POSITIONS

MVR worked as Assistant professor (1969-1971); Associate professor (1971-1985) and professor (1985-1990) in the Faculty of Chemistry at Complutense University of Madrid. During that time, she also worked as Chercheur Associé and Maître de Conférences at the Ecole Nationale Supérieure d'Ingenieurs Electriciens; and as Chercheur Associé 1st class (CR1) and Professeur Associé at the J. Fourier University of the Polytechnic National Institute of Grenoble (France). Besides she has worked as invited professor in the National Institute for Research in Inorganic Materials, Tsukuba (Japan) and in the University of Stockholm (Sweden).

Other Experience and Professional Memberships

- Member of the “Science for peace steering group” of the NATO, (Spanish member of the commission) 1999 to 2003.
- Evaluator of the National Research Program “Smart Materials” (NRP 62) of the Swiss National Science Foundation (SNSF) and Swiss Innovation Promotion Agency (CTI). May 2010
- Member of Scientific advisory board (SAB) of EXSELENT. University of Stockholm. 2009-2014
- Advisor of the Materials for the Future Cluster. Project: “The University City of Moncloa: a Campus of International Excellence in the City of Madrid”. U.C.M. 2009-2015.
- Evaluator of the proposals for Euronanomed.
- Evaluator of more than 10 Spanish Quality Agencies
- Member International Scientific Committee of Basque Center for Materials Applications & Nanostructure (BCMaterials) 2014.....
- Panel Member for the panel PE8 – Products and Processes Engineering, in the European Research Council (ERC) Consolidator Grant evaluation 2014.

COMMISSIONS OF TRUST

•President of the Advisory Committee (Chemistry) of CNEAI,2004-2006.Secretary, 2002-2004, Board Member, 2006-2009.

MEMBERSHIP OF SCIENTIFIC SOCIETIES:

•Spanish Royal Society of Chemistry RSEQ. Vice-president from 1999 to 2007.

Academy membership

•Fellow of the Spanish Royal Academy of Engineering (RAI), Medal LII.

•Fellow of the Spanish Royal Academy of Pharmacy (RANF), Medal XLII.

•Elected Honorary Member of the Materials Research Society of India, since 1997.

•Fellow International College of Fellows of Biomaterials Science and Engineering ICF-BSE 2012.

Honors

•2000 French-Spanish Prize “Catalán Sabatier” of the French Chemical Society.

•2008 Prize in Inorganic Chemistry of the Spanish Royal Society of Chemistry (RSEQ).

•2008 National Research Prize in Engineering, Spanish Education and Research Ministry.

•2011 Gold Medal of the Spanish Royal Society of Chemistry (RSEQ).

•2012 Research Prize of the Business Federation of Spanish Chemical Industries (FEIQUE).

•2013 Doctor Honoris Causa by the Basque Country University.

•2013 Research Prize in Sciences “Miguel Catalán” of the Autonomous Community of Madrid.

•2013 IUPAC Distinguished Woman in Chemistry and Chemical Engineering.

•2015 Doctor Honoris Causa by the Jaume I University, Castellón, Spain.

PARTICIPATION IN R&D GRANTS FUNDED THROUGH OPEN PUBLIC COMPETITION (National and/or International)

- “Modifications by heat treatment of surface properties and crystal structure of zirconium dioxide xerogels”. Juan March Foundation. Duration: 1 year. Investigator Group: A. Mata, **M. Vallet-Regí**, M.L. Veiga.
- "Influence of non- stoichiometry and lattice defects in the mechanism of the synthesis of metal oxides". MEC Advisory Commission Duration: 1 year. Principal Investigator: Oscar García.
- "Study of supported metal strontium titanate catalysts: catalytic and photocatalytic properties". MEC Advisory Commission. Duration: 3 years. Principal Investigator: Guillermo Munuera.
- "Synthesis and characterization of new inorganic materials: hydroxysalts, oxyhydroxides, mixed oxides and chalcogenides. Study of their physico-chemical properties and applications". MEC Advisory Commission nº 3737/79. Duration: 3 años. Principal Investigator: Oscar García.
- "Influence of compositional variations in the structures and the magnetic properties of complex metal oxides". MEC Advisory Commission nº 1425/82 Duration: 1-1-1983 / 31-12-1985. Principal Investigator: M. Alario.
- "Synthesis, microstructural characterization and study of physicochemical properties of inorganic materials". MEC Advisory Commission PB85-0056. Duration: 17-9-1986 / 17-9-1989. Principal Investigator: M. Alario.
- "Synthesis and microstructural, electrical and magnetic characterization of high-temperature superconductors". C.I.C.Y.T. Project MAT88-0163-003-03 MEC. Duration: 23-11-88 / 23-11-91 Principal Investigator: **M. Vallet-Regí**.
- "Synthesis and characterization of high temperature superconductors" . Project MIDAS. Funded by RESA. Duration: 1989. Principal Investigator: **M. Vallet-Regí**. Total cost: 6.000.000 Ptas.
- "Fundamental physics on single crystals of high Tc superconductors". Project Simulation des cooperations et des échanges scientifiques et techniques européens. Funded by C.E.E. Duration: 1-10-88 / 30-9-89. Principal Investigator: M. Cyrot.
- "Synthesis and characterization of mixed oxides and magnetic alloys". Project PICS, funded by CNRS-CSIC. Duration: 1988, renewed 1989- 1990. Coordinating researcher: Fernando Palacio. Principal Investigator in Madrid Laboratory: **M. Vallet-Regí**.

- "Flux pinning in high temperature superconductors". Project Stimulation Action, funded by C.E.E. SCIENCE SC1-0389-M(A). Duration: 1-4-1989 / 1-4-1991. Coordinating Researcher: P.H. Kes. Principal Investigator in Madrid Laboratory: **M. Vallet-Regí**. Total cost: 7.000.000 Ptas.
- "A systematic search for high T_c superconductors". Project EIT Research Programme, funded by E.I.T. Duration: 1-10-1989 / 30-9-1992. Principal Investigator: M. Alario.
- "Synthesis of single crystals of high-temperature superconducting materials". Project MIDAS, funded by RESA. Duration 1989-1991. Principal Investigator: J.M. González-Calbet.
- "Spray technical installation for producing thin films". Project MIDAS funded by RESA. Duration 1990. Principal Investigator: J.M. González-Calbet.
- "X-ray diffractometer for powder samples". Infrastructure Project (IN89-0413), funded by M.E.C. installed in Inorganic Chemistry Dpt. of the Faculty of Chemistry. U.C.M. Principal Investigator: J.M. González-Calbet.
- "Critical currents and fluxons dynamics in high temperature superconductors: basic aspects and development of materials". MAT90-0858-C02-02 funded by C.I.C.Y.T. Duration: 22-11-90 / 22-11-93. Principal Investigator: **M. Vallet-Regí**. Total cost: 17.710.000 Ptas.
- "Superconducting and non-superconducting oxides derived from the perovskite structural type: microstructure-property relationship". MAT91-0331 funded by C.I.C.Y.T. Duration: 08-05-91 / 08-05-94. Principal Investigator: J.M. González Calbet. Total cost: 14.500.000 Ptas.
- "Installation of thermoanalysis systems TG/DTA with treatment station and data processing in measurement TG/DTA modules with temperature range from room to 1500 °C. Research equipment. Funding Agency: Comunidad de Madrid. 1992. Principal Investigator: **M. Vallet-Regí**. Total cost: 5.000.000 Ptas.
- "Synthesis of materials by spray technique as ultrafine particle and/or thin sheet. MAT93-0207. Funded by C.I.C.Y.T. Duration: 3 years since 23-04-93. Total cost: 27.302.000 Ptas. Principal Investigator: **M. Vallet-Regí**.
- "Magnetism and Superconductivity in Electron Superconductors: Influence of Oxygen Stoichiometry and Microestructure". International Scientific Cooperation Initiative. Project of C.E.E. ALAMED- CI1*-CT 92-0087. Principal Investigator: J.M. González Calbet. Duration: 3 years since 01-04-93. Total cost: 36.000 Euros.
- "X-ray diffractometer for powder samples". Infrastructure project MAT IN93-0172. Funded by C.I.C.Y.T. 1993. Total cost: 16.000.000 Ptas. Principal Investigator: **M. Vallet-Regí**.
- "Flux pinning in high temperature superconductors". Project Human Capital Mobility funded by C.E.E. CHR-CT93-0138. Duration: 3 years since 01-10-93. Total cost: 21.100 ECUS. Principal Investigator: **M. Vallet-Regí**.
- "Improvement of the MOCVD process for producing high T_c superconducting tapes". Project Brite Euram (C.E.E.). BRE2-CT94-0742. Duration: 3 years since 01-05-94. Total cost: 120.000 Euros. Principal Investigator: J.M. González Calbet.
- "Study of semiconductor materials in order to develop the material synthesis methods for low cost detection system." Project INTAS (C.E.E.). 93-91. Duration: 3 years since 01-07-94. Total cost: 9.500 Euros. Principal Investigator: **M. Vallet-Regí**.
- "Device for the study of thin films, to be installed at X-ray Diffraction Service". Research equipment. Funded by Comunidad de Madrid. 1994. Total cost: 1.200.000 Ptas. Principal Investigator: **M. Vallet-Regí**.
- "Installation of Low Pressure Spray Technique". Project AE00337/95. Program TEC funded by Comunidad de Madrid within the framework of the Regional Research Plan. Cost: 2.200.000 Ptas. Principal Investigator: **M. Vallet-Regí**.
- "Improved mechanical properties of Zn-Mn and Zn-Ni ferrites". Project MAT95-2084-E. Funded by C.I.C.Y.T. Total cost: 7.500.000 Ptas. Principal Investigator: **M. Vallet-Regí**.
- "Microstructure, magnetic and superconducting properties in perovskites related oxides: polycrystals and thin films". Project MAT95-0642 funded by C.I.C.Y.T. Duration: 01-06-95 / 31-05-98. Total cost: 17.400.000.- Ptas. Principal Investigator: José M. González Calbet.
- "Automatic system for specific surface and pore size characterization. Infrastructure Project IN95-0494. Principal Investigator: Jose Luis Martínez Fernández-Ballesteros.

- "Synthesis of inorganic materials with potential technological applications". Project MAT96-0919 funded by C.I.C.Y.T. Duration: 01-06-96 / 31-05-99. Total cost: 30.100.000 Ptas. IPrincipal Investigator: **M. Vallet-Regí**.
- "Installation of a low-pressure pirosol equipment". Project: APC96-0112. Funded by Dirección General de Investigación Científica y Técnica (D.G.I.C.Y.T.) del Ministerio de Educación y Ciencia. Total cost: 400.000 Ptas. Principal Investigator: **M. Vallet-Regí**.
- "Special action to constitute the Thematic Network "Calcium phosphates for replacement or bone regeneration" Project MAT96-2106-E. Funded by C.I.C.Y.T. Duration:15-07-96 /15-07-97. Total cost: 6.500.000Ptas. Coordinating Researcher: Red: Jose Antonio Planell Estany. Principal Investigator of Madrid Laboratory: **M. Vallet-Regí**.
- "Special action to constitute the Thematic Network giant magnetoresistance". Project MAT96-1642-E. Funded by C.I.C.Y.T. Duration: 29-04-96 / 29-04-97. Total Cost: 6.500.000 Ptas. Coordinating Researcher: Josep Fontcuberta. Principal Investigator of Madrid Laboratory: **J. M. González Calbet**
- "Minisymposium on bioceramics". Call for aid for the organization of Scientific International Complutense Seminars" (SIC). (1997) Total cost: 800.000 Ptas. Principal Investigator: **M. Vallet-Regí**.
- "Innovative approaches for fabrication of long lengths of high performance superconducting tapes". Project Brite Euram (CEE) BRPR-CT97-0556. Duration: 3 years since 3/9/97. Total cost: 146.200 Ecus. Principal Investigator: **M. Vallet-Regí**
- Study of materials with optical properties of interest : development of a ceramic-glass with phosphorescent properties applicable to ceramic tiles. Co-funded proyect by FEDER funds and National Plan R&D. Ref. 2FD97-1198-C02-02. Duration: 1-10-1999 / 31-12-2001. Total cost: 26.310.000 Pts. Principal Investigator: **M. Vallet-Regí**
- Ceramics, glass and glass-ceramics with clinical interest. Project MAT99-0466. Funded by C.I.C.Y.T. Duration: 1999-2002. Total cost: 54.500.000 Pts. Principal Investigator: **M. Vallet-Regí**
- XXVIII Biennial Meeting of the Spanish Royal Society of Chemistry. Special Action Ref. BQU2001-4264-E. Funded by Ministry of Science and Technology. Duration 28-12-01 / 27-12-02. Principal Investigator: Maria Vallet-Regí
- Tissue engineering: neonatal cardiovascular surgery implants. Project 08.4/0004/2001. Funded by: Community of Madrid. Duration: 01-06-2002 / 01/06/2004. Total cost: 59.641 €. Principal Investigator: **M. Vallet-Regí**.
- Porous materials for medical applications. Project MAT2002-00025. Funded by CICYT. Duration: 2002 - 2005. Total cost: 380.000 €. Principal Investigator: **M. Vallet-Regí**
- Functionalised Advanced Materials and Engineering of Hybrids and Ceramics (FAME). Excellence Network of European Union: FP6-500159-1. The 6th Framework Programme. Priority 3. Duration: 1-10-2004 / 30-09-2008. Total cost: 5.000.000 €. Principal Investigator UCM: **M. Vallet-Regí**. Total cost for UCM: 154.184,65 €.
- Osteogenic properties of the parathormona (PTHrP) related protein on bioceramics treatment of secondary bone defects. Jiménez Díaz Foundation. Funded by Fundación MMA. Duration: 2004 - 2007. Total cost: 15.000 €. Principal Investigator: Enrique Gómez Barrena.
- Tissue Engineering: design and development of neonatal implants for cardiovascular surgery. 12 de Octubre University Hospital. Funded by MMA. Duration: 2004 - 2007. Total cost: 106.000 €. Principal Investigator: Juan Valentín Comas Illas
- Analysis of size and potential in mesoporous materials and colloidal biactives preparations. Co-funded by Comunidad de Madrid and FEDER funds. Duration: 01-01-2005 / 31-12-2006. Total cost: 74.750 €. Principal Investigator: Juan Carlos Doadrio Villarejo.
- "Catalysts mesoporous materials and matrices for nano and biomaterials". Call for Aid for organising scientific "International Complutense Seminars" (S.I.C). (2005) Total cost: 7.000 euros. Responsible: **M. Vallet-Regí**.
- "Three-dimensional scaffolds for tissue regeneration". Project MAT2005-01486. Funded by M.E.C. Duration: 2005-2008. Total cost: 538.000 €. Principal Investigator: **M. Vallet-Regí**
- "3rd generation biomaterials and smart biomaterials". Project S-0505-MAT-0324. Funded by C.M (IV PRCIT) Duration: 2006- 2010. Total cost: 709.621,65 €. Coordinator and Principal UCM Investigator: **M. Vallet-Regí**

- Novel Transdermal Drug Delivery System: Designing meso-structured materials for controlled and triggered release. Funded by Japan Science and Technology Agency (JSC)-Swedish Agency for Innovation System (VINNOVA). Duration: 2006-2008. Total cost: 147.446,02 €. Principal Investigator: **M. Vallet-Regí**.
- Program R & D activities between research groups of the Community of Madrid. Funded by U.C.M. (GR85/06) Duration: 1-1-07 / 31-12-07. Total cost: 12.261,25. Principal Investigator: **M. Vallet-Regí**.
- CIBER of Bioengineering, Biomaterials and Nanomedicine. Funded by Institute of Health Carlos III. Reference CB06/01/1037. Granted: 12-11-07. Timeless. Budget: 7.700.000 €/year. Responsible UCM: **María Vallet Regí**. Approved amount 2008-2009: 246.000 € (123.000 €/ year). Total cost for 2010-2014: 585.636 €.
- Program Creation and Consolidation of UCM-CAM Research Groups Financing. Funded by U.C.M. (CCG07-UCM/SEM-2719) Duration: 1-1-08 / 31-12-08. Total cost: 34.509 €. Principal Investigator: **M. Vallet-Regí**.
- Functional and/or smart components in third generation bioceramics. Project MAT2008-00736/MAT. Funded by MCEI. Duration: 2008-2013. Total cost: 1.000.000 €. Principal Investigator: **M. Vallet-Regí**.
- Synthesis and characterization of functionalized magnetic nanoparticles in biological media. Project CIBER-BBN interárea. Principal Investigator UCM: **M. Vallet-Regí**. Duration 2008-2009. Total cost: 10.275 €.
- Development of new concepts and cell culture scaffolds for regenerative medicine. Bone Application. Project CIBER-BBN Biomaterials area. Principal Investigator UCM: **M. Vallet-Regí**.
- Gender Equality Action Plan. FAME- WP13. WP Leader: **M. Vallet-Regí**
- Hybrids for Optics, Actuating and Sensing FAME- WP6. UCM Leader: **M. Vallet-Regí**
- Measurement platform for testing of hybrid magnetic carriers for heat-triggered drug release. Plataforma FAME. UCM Leader: M. Vallet-Regí
- Smart hybrid materials based on stimuli-responsive polymer brushes and mesoporous silica - Application for drug delivery. Project FAME: UCM and UCP of Paris (B. Charleux). 2005-2008. Coordinator: M. Vallet-Regí
- Biomedical applications of multifunctional nano-particles. Project FAME. Participants: University of Montpellier – University of Jerusalem – UCM: M. Vallet-Regí.
- Hypothermia and MRI, setting and validation of hyperthermia platforms. Project FAME. Participants: ICMCB Burdeos - UCM: M. Vallet-Regí.
- Controlled release of active molecules using mesoporous materials. Project FAME: Participants: University of Montpellier -UCM: M. Vallet-Regí.
- Effect of pore diameter on drug physical state in mesoporous silica materials. Project FAME. Participants: UPMC of Paris – University of Montpellier - UCM M. Vallet-Regí.
- Synthesis of implantable thermoseeds for hyperthermic treatment of bone tumours. Project FAME. Participants: ICMCB Burdeos - UCM: M. Vallet-Regí.
- Magnetic multilamellar vesicles. Project FAME. Participants: ICMCB Burdeos – CRPP Burdeos - UCM: M. Vallet-Regí.
- NMR studies of the hydroxycarbonate apatite formed on the surface of bioactive glasses Project FAME. Participants: UPMC of Paris - UCM: M. Vallet-Regí.
- European Institute of Multifunctional Materials EMMI. Recently created within the FAME framework. Principal Investigator UCM: María Vallet Regí. Duration: Timeless.
- Marie Curie Reintegration Grant to Mercedes Vila. Tutor: María Vallet-Regí. Intelligent and reinforced tissue scaffolds for regenerative biomedicine. FP7-PEOPLE-2007-2-2-ERG. Funded by UE. Total cost: 45 000 euros. Duration: 2008-2011.
- Funding of the UCM Research Group Integrated Program R & D from Community of Madrid. Funded by UCM. (GR58/08 – Ref910576-549) Duration: 1-1-09 / 31-12-10. Principal Investigator: M. Vallet-Regí.

- Programs R & D activities between research groups of the Community of Madrid by 5429/2009 Ministerial Order of November 30 , Ref: S2009/MAT-1472. Organism: UCM. Title: Bioceramics for tissue. Duration: 1-1-10 / 31-12-14. Total cost: 801.665,00 €. Program Coordinator: M. Vallet-Regí.
- Project 3D Scaffolds and Implants Functionalized and Reinforced with Recombinant Protein Polymers for Regenerative Medicine (SCAFFTIDE). Organism: Institute of Health Carlos III. Total cost: 11.000 €. Duration: 1-1-10 / 31-12-12. Program Coordinator: M. Vallet-Regí
- "Advanced hybrid nanomaterials for controlled release of drugs at specific sites". Organism: STATE COUNCIL OF SCIENCE AND TECHNOLOGY OF THE STATE OF JALISCO (COECYTJAL). /Fund COECYTJAL-UDEG-2009-1). Total cost: 500,000.00 (mexican pesos). Duration: 01-02-2010/31-01-2011. Principal Investigator: Guillermo Toriz González
- "Novel drug delivery routes mediated via nanotechnology; targeting allergy vaccination". Organism: ERA-Net EuroNanoMed. NANOASIT. Total cost: without funding due to National Funding Agency restrictions. Duration: 01-01-2011 / 31-12-2014. Principal Investigator: Håkan Engqvist.
- "Aging: Spanish and European Network of excellence for the prevention and local treatment of osteoporotic fractures". Reference: CSO-2010-11384-E. Funded by MCEI. Duration: 2010-2016. Total cost: 360.000 €. Principal Investigator: **M. Vallet-Regí**.
- "Third generation biomaterials and smart biomaterials". Call GR35/10-A. Group: 910576. Organism: Programa de Grupos de Investigación Santander-UCM (modalidad A – Consolidados). Duration: 01-01-2011 / 31-01-2011. Total cost: 14.868 €. Principal Investigator: **M. Vallet-Regí**.
- "Hybrid mesoporous materials for controlled release of drugs at specific sites". Aid for research Santander groups. Call ECL-2010. Duration: 1 year. Total cost: 10.000 €. Principal Investigator: M. Vallet Regí.
- Smart nanocarriers for in situ generation of cytotoxic in tumor therapy. EXPLORA: MAT2011-15138-E Duration: 1 year. Total cost: 10.000 euros. Funded by Ministri of Science and Innovation. Principal Investigator: Alejandro Baeza.
- "Optimization and Consolidation of new low cost materials applied in water treatment contaminated by heavy metals". Interuniversity Cooperation and Scientific Research Programmes. Reference: AP/042845/11. Spanish Coordinator: María Vallet Regí. Iberoamerican Coordinador: José Alfredo Díaz. Total cost: 30.000 euros. Year: 2013.
- "Identification of optimal delivery systems for the Nucleic Acid Based Drugs and study of their action mechanisms in some models of human inflammatory and tumor pathologies". Funded by Italian Ministry of Education. Ministero dell'Università, dell'Istruzione e della Ricerca. Principal Investigator: Gaetano Lamberti. Associated Partner: M. Vallet-Regí. Duration: 3 years (since 2012).
- "Bioceramics of mesoporous silica for secuential treatment of bone tissue pathology". Funded by Ministry of Economy and competitiveness. Fundamental Research Projects. Reference: MAT2012-35556. Total cost: 520.000 euros. Duration: 3 years (since 2013).
- "Induction to autonomous learning of General Chemistry Laboratory using current audiovisual devices". General Chemistry Laboratory Proyecto de Innovación y Mejora de la Calidad Docente, N° 196. Call 2013. Responsible: Victoria Cabañas. "http://147.96.70.122/Manual_de_Practicas/home.html"
- Smart nanoparticles for advanced therapy in pediatric neuroblastoma. Project SMART4NB. Funded by Proyectos traslacionales CIBER BBN – Fundación ECO. Principal Investigator UCM: **M. Vallet-Regí**. Duration: 2014-2015. Total cost: 12.500 €.
- Nanoantithiv: Dendron Decorated Mesoporous Silica Nanoparticles: New Drug/Sirna Nanocarrier Against Hiv-1 Latency. Reference: BM10. Funded by Projects CIBER BBN Intramural Program. Principal Investigator UCM: Blanca González Ortiz. Duration: 2014-2015.
- 3d-Timpte: 3d Custom-Made Porous Titanium Endoimplants Combined With Tissue Engineering Elements For Mandible Reconstructive Surgery. Referencia: BM01. Funded by Projects CIBER BBN Intramural Program. Principal Investigator: Santos Ruiz, Leonor. Duration: 2014-2015.
- Spring: Gated Scaffolds For The Prevention Of Implant Infection. Reference: NM22. Funded by Projects CIBER BBN Intramural Program. Principal Investigator: Martínez Máñez, Ramón. Duration: 2014-2015.

- Implementation of audiovisual resources developed for autonomous learning Chemistry Laboratory. Enhancing the understanding by people with hearing difficulties and learning of technical vocabulary in English. Project of Innovation and Improvement of Teaching Quality. Nº 298. Funding 375 euros. Call 2014. Responsible: Juan Peña Lopez.
- Financing Programme of University Complutense of Madrid and Santander Bank for UCM Research Groups Endorsed by the Research Commission in 2013. Reference: GR3/14. Research group UCM: 910576 Smart Biomaterials Research Group (GIBI). Finish date: 20-11-2015. Total cost: 5.791,64 euros.
- Nanostructured coatings for orthopedic metal implants. Call for Aids for Research. Funded by Fundación Domingo Martínez. Total cost: 44.000 euros. Duration: 1 year. Call 2015.
- Mesoporous matrices for localized pH-triggered release of the therapeutic ions and drugs (**MOZART**), Organismo: European Commission Horizon 2020, Call: H2020-NMP-PILOTS-2015 (Call for Nanotechnologies, Advanced Materials and Production), Topic: NMP-06-2015 (Novel nanomaterials and nanocapsules), Type of Action: RIA (Research and Innovation Actions). Duration: 4 years. Project Coordinator: Chiara Vitale. WP 4 Leader: Maria Vallet-Regí
- Versatile nanosystem capable of providing solutions to infected blood, with cancer and osteoporotic (**STRAUSS**). Funded by Ministry of Economy and Competitiveness. R & D + I Projects, del State Research Program, Development and Innovation Oriented Society Challenges. Reference: MAT2015-64831-R. Total cost: 300.000 euros. Duration: 3 years (since 2015).
- polyvalent mesoporous nanosystem for bone diseases, (**VERDI**). Funded by European Research Council Executive Agency. Horizon 2020. Excellent Science. Reference: ERC-2015-AdG. Total cost: 2.500.000 euros. Duration: 5 years.

PARTICIPATION IN R&D CONTRACTS TO BUSINESS AND/OR PUBLIC ADMINISTRATION DEPARTMENTS (National and/or International)

Title: Bactericidal properties of titanium oxide

Type of contract: Artículo 11

Company/Funding Agency: Colorobbia España, S.A.

Participants: Inorganic and Bioinorganic Chemistry Department. Faculty of Pharmacy. UCM.

Duration: 1/9/97 - 15/12/97

Total cost: 2.879.120 Ptas.

Principal Investigator: María Vallet Regí

Number of participant researchers: 6

Title: Development of a phosphorescent enamel

Type of contract: Feder Complement.

Company/Funding Agency: Colorobbia España, S.A.

Participants: Inorganic and Bioinorganic Chemistry Department. Faculty of Pharmacy. UCM.

Duration: 1/1/01 - 31/12/01

Total cost: 3.000.000 Ptas.

Principal Investigator: María Vallet Regí

Number of participant researchers: 6

Title: Expansive cement

Type of contract: Article 11

Company/Funding Agency: CBA Expansivos, S. L.

Participants: Inorganic and Bioinorganic Chemistry Department. Faculty of Pharmacy. UCM.

Duration: 19/4/02 - 30/5/02

Total cost: 12.197,80 euros.

Principal Investigator: María Vallet Regí

EXPERIENCE IN RESEARCH MANAGEMENT

(Management of R&D programs, action plans)

- President of the Materials Technology Presentation (TM) May 1996- 1999.
- Member of the “Science for peace steering group” NATO, July 1999-2003.
- Member of the Internacional Advisory Editorial Board of the Bulletin of Materials Science. 2004.
- Vocal of the Advisory Committee 2: Chemistry of the National Evaluation Commission of Research Activity (Ministry of Education, Culture and Sport), December 2001-2002.
- Secretary of the Advisory Committee 2: Chemistry of the National Evaluation Commission of Research Activity (Ministry of Education, Culture and Sport), December 2002-2003.
- President of the Advisory Committee 2: Chemistry of the National Evaluation Commission of Research Activity (Ministry of Education, Culture and Sport) December 2003 – February 2004.
- Member of the Expert Working Group on Science and Technology: Materials and Nanotechnology at the IV Regional Plan for Scientific Research and Technological Innovation (2004-2007)
- Member of the Rector’s Advisory Board and the Governing Council of UCM since 1 April 2004.
- Member of subcommittee of field 5 Chemistry for assessment of regional supplements UCUA, June 2004
- Participation in expert panel of Materials Program Commission of the National R & D Plan and R & D Plan of the CAM.
- Coordinator of the Technology and Health Call 2004. CAM, Madrid (Spain), June 2004.
- Vocal representative of the Ministry of Education and Science of the National Evaluation Commission of Research Activity (CNEAI). 2004-2008.
- Vocal of the Standing Committee of the Interministerial Commission on Science and Technology. Ministry of Education and Science. September 2004.
- Adviser of the Ministry of Education and Science (2004-2005).
- President of the Evaluation Commission Area 1: Experimental Sciences, for the assessment of teaching and/or research activities. Andalusian Evaluation Agency. Since July 2005.
- Adviser of the Andalusian Quality Evaluation Agency and university accreditation for the technical scientific assessment of the call for incentives to research groups in FQM area. Since February 2006.
- Member of the Commission for the creation of the State Agency Financing, Evaluation and Planning of scientific and technical research. Ministry of Education, Science and Tecnology. General Secretariat and Scientific and Technological Policy. Since 20 December 2005 until 15 June 2006.
- Vocal of Advisory Committee Singular Infrastructures (CAIS). Ministry of Science and Technology. Since 26 April 2006 until January 2009.
- Member of the Subfield of Chemistry Commission for assessing the activity of the teaching and research staff of the public universities of Andalusia. Since August 2006.
- Evaluator of the proposals of Official Titles of Graduate for academic year 2007-2008 of the Basque University system.
- Evaluator and University Accreditation (ACECAU). January 2008.
- Evaluator of the qualification proposals of the academic year 2008-2009 of the Agency for Quality Assessment and accreditation (UNIQUAL) of the Basque University system.
- Member of the Joint Commission University -Society (CMUS) for transformation and/or creation of the curriculum of the Degree in Chemistry. Universitat Jaume I. Castellón (Spain). Since 2008.

- Member of the Commission of Chemistry. Ministry of Science and Innovation. June 2008.
- Member of the Commission of Chemistry. Ministry of Science and Innovation. June 2009.
- Evaluator of the National Research Program “Smart Materials” (NRP 62) of the Swiss National Science Foundation (SNSF) and Swiss Innovation Promotion Agency (CTI). May 2010.
- Member of Scientific advisory board (SAB) of EXSELENT. University of Stocolm (Sweden). 2009-2010.
- Member of the Expert Panel of PEICyT (MICINN). March 2011
- External Expert Specific Evaluation Commissions under the Verification Program. AQU Catalunya (Spain). January 2013.
- President of Expert Panel for the Reaccreditation of Formal Qualifications Program of the Agency for Quality Assessment (UNIBASQ) of the Basque University system since October 2014 until February 2015.
- External Advisor of the Specific Evaluation Committees under the Verification, Modification, Monitoring and Accreditation Program (VSMA). Agency for the Quality of the University System of Catalonia January-May 2015.
- Participation for the Agency for the Quality of the University System of Balearic Island as president in the expert panel for evaluation of the Reaccreditation of 2015 Formal Qualifications Program. 4 December 2015.

STAYS IN FOREIGN CENTERS

KEY: D = doctoral, P = postdoctoral, I = invited, C = contracted, O = other (specify).

CENTER: Laboratoire de Genie Physique. Institute National Polytechnique - Grenoble.
LOCATION: Grenoble **COUNTRY:** France **YEAR:** 1982 **DURATION:** June-September
SUBJECT: Crystal growth of magnetic materials. (Hexaferrites) **KEY:** C

CENTER: Laboratoire de Genie Physique. Institute National Polytechnique - Grenoble.
LOCATION: Grenoble **COUNTRY:** France **YEAR:** 1983 **DURATION:** July - August
SUBJECT: Study of magnetic materials ferrite type structure. **KEY:** C

CENTER: Laboratoire de Chimie du Solide, TALENCE, University of Bordeaux.
LOCATION: Bordeaux **COUNTRY:** France **YEAR:** 1983 **DURATION:** November
SUBJECT: Non-stoichiometric ferrites with perovskite structure. **KEY:** Integrated Action

CENTER: Laboratoire de Chimie du Solide, TALENCE, University of Bordeaux.
LOCATION: Bordeaux **COUNTRY:** France **YEAR:** 1985 **DURATION:** November
SUBJECT: Non-stoichiometric ferrites with perovskite structure. **KEY:** Integrated Action

CENTER: Laboratoire de Cristallographie, C.N.R.S.
LOCATION: Grenoble **COUNTRY:** France **YEAR:** 1986 **DURATION:** August- October
SUBJECT: Structural determination of hexaferrites and perovskites. **KEY:** C

CENTER: Laboratoire de Cristallographie, C.N.R.S.
LOCATION: Grenoble **COUNTRY:** France **YEAR:** 1987 **DURATION:** July
SUBJECT: Applicable hexaferrites in magnetic recording **KEY:** C

CENTER: Laboratoire de Chimie du Solide, TALENCE, University of Bordeaux
LOCATION: Bordeaux **COUNTRY:** France **YEAR:** 1987 **DURATION:** November
SUBJECT: Non-stoichiometric ferrites with perovskite structure. **KEY:** Integrated Action

CENTER: Laboratoire de Cristallographie, C.N.R.S.
LOCATION: Grenoble **COUNTRY:** France **YEAR:** 1988 **DURATION:** July - August
SUBJECT: Hexaferrites devoted to magnetic recording. **KEY:** C

CENTER: Laboratorio de Resonancias Magnéticas del Centro Atómico de Bariloche.
LOCATION: Bariloche **COUNTRY:** Argentina **YEAR:** 1989 **DURATION:** March
SUBJECT: EPR studies in La₂NiO₄ related compounds and derivatives. Calorimetry in superconductor oxides.
KEY: Cooperation

CENTER: Structural Chemistry Department of the University of Stockholm.
LOCATION: Stockholm **COUNTRY:** Sweden **YEAR:** 1989 **DURATION:** August
SUBJECT: CIP in inorganic materials. **KEY:** I

CENTER: Department of Electrical Engineering. Section of Electrical Energy. Aristotelian University of Thessaloniki. Faculty of Technology.
LOCATION: Thessaloniky **COUNTRY:** Greece **YEAR:** 1991 **DURATION:** 9-23 September
SUBJECT: Study of oxides for advanced technologies: Magnetic materials and superconductors.
KEY: I

CENTER: Laboratoire de Genie Physique. Institute National Polytechnique of Grenoble.
LOCATION: Grenoble **COUNTRY:** France **YEAR:** 1992 **DURATION:** 18/06/92 to 02/07/92
SUBJECT: SnO₂ related semiconductors **KEY:** Integrated Action

CENTER: MRIS Laboratory Atomic Center of Bariloche.
LOCATION: Bariloche **COUNTRY:** Argentina **YEAR:** 1992 **DURATION:** 12/11/92 to 27/11/92
SUBJECT: Oxygen content control and its influence on the microstructure of highT_c superconductors and related oxides. EPR measurements on these materials **KEY:** Cooperation Program

CENTER: National Institute for Research in Inorganic Materials.
LOCATION: Tsukuba **COUNTRY:** Japan **YEAR:** 1996 **DURATION:** 08/03/96 to 17/03/96
SUBJECT: High Resolution Electron Microscopy **KEY:** I

PEER-REVIEWED PUBLICATIONS

KEY: L = book, CL = book chapter, A = article, R = "review", E = editor, S = restricted technical scientific document.

1. M.A. Alario-Franco, M. Vallet-Regí. ANION DEFICIENCY IN STRONTIUM TITANATE. *Nature*, 270, 706-708. (1977). A
2. M. Vallet-Regí, M.L. Veiga Blanco, A. Mata Arjona. TEXTURA DE GELES DE TiO₂: I. CARACTERIZACION DE MATERIALES OBTENIDOS EN DIFERENTES CONDICIONES DE PREPARACION. *An. Quím.* 76B, 172-176, (1980). A
3. M. Vallet-Regí, M.L. Veiga Blanco, A. Mata Arjona. TEXTURA DE GELES DE TiO₂: II. DESHIDRATACION TERMICA. *An. Quím.* 76B, 177-181, (1980). A
4. M. Vallet-Regí, M.L. Veiga Blanco, A. Mata Arjona. TEXTURA DE GELES DE TiO₂: III. PROPIEDADES TEXTURALES DE GELES OBTENIDOS POR HIDROLISIS DE TiCl₄. *An. Quím.* 76B, 182-186, (1980). A
5. M. Vallet-Regí, M.L. Veiga Blanco, A. Mata Arjona. TEXTURA DE GELES DE TiO₂: IV. PROPIEDADES DE GELES OBTENIDOS POR HIDROLISIS DE ALCOHOLATOS DE TITANIO. *An. Quím.* 76B, 187-192, (1980). A
6. M.L. Veiga Blanco, M. Vallet-Regí, A. Mata Arjona, E. Gutiérrez Ríos. TRANSFORMACIONES AMORFO-CRISTALINAS EN GELES DE ZrO₂. *An. Quím.* 76B, 218-223, (1980). A
7. M.L. Veiga Blanco, M. Vallet-Regí, A. Mata Arjona y E. Gutiérrez Ríos. TEXTURA POROSA Y SUPERFICIE ESPECÍFICA DE GELES DE ZrO₂. *An. Quím.* 76B, 346-351, (1980). A
8. M.L. Veiga Blanco, M. Vallet-Regí, A. Jeréz. SINTERING OF ZrO₂ GELS: I. INFLUENCE OF THE PREPARATION METHOD ON THE POROUS TEXTURE. *Ann. Chim-Sci Mat.* 6, 341-344, (1981). A
9. M.L. Veiga, M. Vallet-Regí, A. Jeréz, C. Pico. SINTERING OF ZrO₂ GELS: II. MECHANISMS. *Ann. Chim-Sci Mat.* 6, 345-49, (1981). A
10. M.A. Alario-Franco, M.J.R. Henche, M. Vallet-Regí, J.C. Grenier, A. Wattiaux, P. Hagemuller. NON STOICHIOMETRY IN THE CALCIUM-LANTHANUM FERRITE Ca₂LaFe₃O_{8+x}. *J. Solid State Chem.* 46, 23-40, (1983). A

11. M.A. Alario-Franco, M.J.R. Henche, M. Vallet-Regí, J.M. González Calbet, J.C. Grenier, A. Wattiaux, P. Hagenmuller. MICRODOMAIN TEXTURE AND OXYGEN EXCESS IN THE CALCIUM-LANTHANUM FERRITE: $\text{Ca}_2\text{LaFe}_3\text{O}_8$. *J. Solid State Chem*, 46, 23-40, (1983). A
12. J.M. González-Calbet, M. Vallet-Regí, M.A. Alario-Franco, J.C. Grenier. STRUCTURAL INTERGROWTHS IN THE CALCIUM LANTHANUM FERRITES: $\text{Ca}_x\text{La}_{1-x}\text{FeO}_{3-y}$. ($2/3 < x < 1$). *Mat. Res. Bull.* 18, 285-292, (1983). A
13. M.A. Alario-Franco, J.M. González-Calbet, M. Vallet-Regí, J.C. Grenier. BROWNMILLERITE-TYPE MICRODOMAINS IN THE CALCIUM LANTHANUM FERRITES: $\text{Ca}_x\text{La}_{1-x}\text{FeO}_{3-y}$. I. ($2/3 < x < 1$). *J. Solid State Chem*, 49, 219-231, (1983). A
14. J.C. Grenier, M. Pouchard, P. Hagenmuller, M.J.R. Henche, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco. STABILISATION A HAUTE TEMPERATURE DE VALENCES MIXTES DU FER (+III ET IV) PAR FORMATION DE MICRODOMAINES DANS DES COMPOSES NON STOECHIOMETRIQUES DE STRUCTURE PEROVSKITE. *Revue de Chimie Minérale*, 20, 726-736, (1983). A
15. J.C. Grenier, M. Pouchard, P. Hagenmuller, M.J.R. Henche, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco. ORDER-DISORDER TRANSITION AT HIGH TEMPERATURE AND MICRODOMAIN FORMATION IN OXIDIZED FERRITES. *Mat. Res. Soc. Sym. Proc.* 21, 387-391, (1984). A
16. M. Vallet, M. Parras, X. Obradors, M. Pernet, J. Rodríguez, J.C. Joubert. SYNTHESIS OF SODIUM-ZINC SPINEL FERRITES. *IEEE T Magn*, 20, 1515-1517, (1984). A
17. M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco, J.C. Grenier, P. Hagenmuller. STRUCTURAL INTERGROWTH IN THE $\text{Ca}_x\text{La}_{1-x}\text{FeO}_{3-x/2}$ SYSTEM ($0 < x < 1$): AN ELECTRON MICROSCOPY STUDY. *J. Solid State Chem.* 55, 251-261, (1984). A
17. A.Vegas, M.T. García GonzalezM. Vallet-Regí, J.M. González-Calbet THE CRYSTAL-STRUCTURE OF CASNO_3 *Acta Crystallogr. section A* 40, c215-c215 (1984). A
18. M. Vallet-Regí, J.M. González-Calbet, J. Verde, M.A. Alario-Franco. MICRODOMAIN FORMATION IN THE $\text{CaFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ FERRITES. I. $0,2 < x < 0,4$. *J. Solid State Chem.* 57, 197-206, (1985). A
19. M. Vallet-Regí, P. Rodríguez, X. Obradors, A. Isalgué, J. Rodríguez, M. Pernet. PARTICLE SIZE AND MAGNETIC PROPERTIES OF $\text{BaFe}_{12}\text{O}_{19}$ PREPARED BY THE ORGANOMETALLIC PRECURSOR METHOD. *J. Phys. Chem.* 46, 335-338, (1985). A
20. X. Obradors, M. Pernet, M. Vallet-Regí, A. Isalgué, J. Rodríguez, A. Labarta. HIGH FIELD MAGNETIZATION STUDY OF SODIUM-ZINC SPINEL FERRITES. *J. Phys.* 46, 445-448, (1985). A
21. M.N. Deschizeaux-Cheruy, M. Vallet-Regí, J.C. Joubert. STRUCTURE D'UN FERRITE HEXAGONAL: LA PHASE $(\text{Zn}_2)\text{W}$, $\text{BaZn}_2\text{Fe}_{16}\text{O}_{27}$ STOECHIOMETRIE DU COMPOSE. *J. Solid State Chem.* 57, 234-239, (1985). A
22. J.M. González-Calbet, M. Vallet-Regí, M.A. Alario-Franco. MICRODOMAINS IN THE REDUCTION OF $\text{Ca}_2\text{LaFe}_3\text{O}_{8+z}$. *J. Solid State Chem.* 60, 320-331, (1985). A
23. J.M. González-Calbet, M. Vallet-Regí, M.A. Alario-Franco. ELECTRON MICROSCOPY OF MICRODOMAINS IN PEROVSKITES. *Inst. Phys. Conf. Ser. N° 78 Chapter 12. EMAG'85.* 467-470, (1985). A
24. M. Vallet-Regí, M.J. Rodríguez Henche, J.M. González-Calbet, M.A. Alario-Franco, J.C. Grenier, M. Pouchard. NON STOICHIOMETRY AND REACTIVITY IN THE CALCIUM LANTHANUM FERRITES. *Mater. Sci. Monogr. Reat. Solids PtB* 28B, 855-859, (1985). A
25. M.A. Alario-Franco, M. Vallet-Regí, M.J.R. Henche, J.M. González-Calbet, J.C. Grenier, P. Hagenmuller. NON STOICHIOMETRY IN PEROVSKITE LIKE FERRITES. *Advances in Ceramics, For the Informal Jornal Conference on Ferrites Part. 1.* 15, 563-566, (1986). A
26. M. Vallet-Regí. NO ESTEQUIOMETRIA EN PEROUSKITAS. *Rev. R. Acad. Cien. Exact. Fis. Nat.* 80 (3), 347-361, (1986). CL
27. T. Blasco, M. Vallet-Regí, J.M. González-Calbet, J. Rodríguez. ACOMODACION DE VACANTES ANIÓNICAS EN EL SISTEMA $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_{3-y}$. *An. Quím.* 82B, 8-12, (1986). A

28. A. Vegas, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco. THE ASnO_3 (A =Ca, Sr) PEROVSKITES. *Acta Crystallogr. B* 42,167-172, (1986), A
29. J. Rodríguez, J.A. Pereda, M. Vallet-Regí, J.M. González-Calbet, J. Tejada. MOSSBAUER STUDY OF VACANCY ORDERING IN THE SYSTEM $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_{3-y}$. ($0.50 < x < 0.70$). *Mat. Res. Bull.* 21, 255-263, (1986)
30. M.A. Alario-Franco, J.M. González-Calbet, M. Vallet-Regí. MICRODOMAINS IN THE $\text{CaFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ FERRITES. II. OXIDATION AND REDUCTION OF THE $x = 0.4$ COMPOSITION. *J. Solid State Chem.* 65, 383-391, (1986), A
31. J.M. González-Calbet, M. Vallet-Regí. A NEW PEROVSKITE-TYPE COMPOUND: $\text{Ca}_4\text{Fe}_2\text{Ti}_2\text{O}_{11}$. *J. Solid State Chem.* 68, 266-272, (1987), A
32. J.M. González-Calbet, J. Alonso, M. Vallet-Regí. NONSTOICHIOMETRY AND STRUCTURAL INTERGROWTH IN THE $\text{CaFe}_x\text{M}_{1-x}\text{O}_{3-y}$ ($0 < x < 1$) SYSTEM. *J. Solid State Chem.* 71, 331-341, (1987), A
33. J.M. González-Calbet, M.A. Alario-Franco, M. Vallet-Regí, MICRODOMAIN FORMATION: A SOPHISTICATED WAY OF ACCOMMODATING COMPOSITIONAL VARIATIONS IN NON-STOICHIOMETRIC PEROVSKITES. *Cryst. Latt. Def. and Amorph. Mat.* 16, 379-385, (1987), A
34. M.A. Alario-Franco, M. Vallet-Regí, J.M. González-Calbet. NON-STOICHIOMETRY AND DISORDERED INTERGROWTH IN ANION-DEFICIENT PEROVSKITES. *Cryst. Latt. Def. and Amorph. Mat.* 16, 387-394. (1987), A
35. R. Ardiaca, R. Ramos, A. Isalgué, J. Rodríguez, X. Obradors, M. Pernet, M. Vallet-Regí. HEXAGONAL FERRITE PARTICLES FOR PERPENDICULAR RECORDING PREPARED BY THE PRECURSOR METHOD. *IEEE T Magn.* 23, 22-24, (1987). A
36. A. Collomb, M. Vallet-Regí. LE ZINC DANS LE FERRITE HEXAGONAL DE TYPE $\text{W}:\text{BaZn}_2\text{Fe}_{16}\text{O}_{27}$. *Mat. Res. Bull.* 22, 753-760, (1987). A
37. F. García-Alvarado, E. Morán, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco, M.T. Pérez-Frías, J.L. Vicent, S. Ferrer, E. García-Michel, M.C. Asensio. A NEW HIGH TEMPERATURE SUPERCONDUCTOR: $\text{Ba}_2\text{SmCu}_3\text{O}_{9-x}$. *Solid State Commun.* 63, 507-510, (1987). A
38. Liu Ran, R. Merlin, M. Cardona, H. Mattausch, W. Bauhofer, A. Simon, F. García-Alvarado, E. Morán, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco. RAMAN SCATTERING IN THE HIGH T_c SUPERCONDUCTOR $\text{MBa}_2\text{Cu}_3\text{O}_{7-x}$. *Solid State Commun.* 63, 839-841, (1987). A
39. M. Parras, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco, J.C. Grenier, P. Hagenmuller. A REASSESSMENT OF $\text{Ba}_2\text{Fe}_2\text{O}_5$. *Mat. Res. Bull.* 22, 1413-1419, (1987). A
40. X. Obradors, A. Labarta, J. Tejada, F. García-Alvarado, E. Morán, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco. MAGNETIC PROPERTIES OF $\text{Ba}_2\text{SmCu}_3\text{O}_{9-x}$ HIGH T_c SUPERCONDUCTOR. *Solid State Commun.* 64, 707-710, (1987). A
41. J.M. González-Calbet, M. Vallet-Regí, M.A. Alario-Franco. THE STRUCTURE OF MICRODOMAIN BOUNDARIES IN NON-STOICHIOMETRIC $\text{Ca}_2\text{LaFe}_3\text{O}_{8+z}$. *Inst. Phys. Conf. Ser. N° 90 Chapter 8* Paper at EMAG87, 257-260, (1987). A
41. A.J.C. Grenier, J.M. González-Calbet, M. Vallet-Regí, M.A. Alario-Franco. NONSTOICHIOMETRIC PHENOMENA IN STRUCTURALLY PEROVSKITE-DERIVED FERRITES. *J. Micro. Spectros. Electro.* 12, 3 A25-A25 (1987). A
42. J. Rodríguez, J. Fontcuberta, G. Longworth, M. Vallet-Regí, J.M. González-Calbet. A MOSSBAUER SPECTROSCOPY STUDY OF THE $\text{CaFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ FERRITES ($0.2 < x < 0.4$). *J. Solid State Chem.* 73, 57-64, (1988). A
43. M. Vallet-Regí, E. García, J.M. González-Calbet. SYNTHESIS AND CHARACTERIZATION OF A NEW DOUBLE PEROVSKITE: LaCaMnCoO_6 . *J. Chem. Soc. Dalton Trans.* 775-779, (1988). A
44. C. Rillo, F. Lera, J. García, J. Bartolomé, R. Navarro, D. González, M.A. Alario-Franco, D. Beltrán, D.H.A. Blank, J. González-Calbet, J. Flokstra, R. Ibañez, E. Morán, J.S. Muñoz, X. Obradors, A. Sánchez, M. Vallet-Regí. MAGNETIC ENERGY ABSORPTION IN SINTERED $\text{YBa}_2\text{Cu}_3\text{O}_{7-d}$ SAMPLES. *Phys. Rev. C*, 153-55, 1533-34, (1988). A

45. M. Pernet, X. Obradors, M. Vallet-Regí, T. Hernández, P. Germi. SYNTHESIS AND CHARACTERIZATION OF NEW SUBSTITUTED BARIUM-FERRITE PARTICLES FOR MAGNETIC RECORDING. *IEEE T Magn.* 24, 1898-900, (1988). A
46. M. Vallet, X. Obradors, M. Pernet, J. Rodríguez, M. Medarde. LOW TEMPERATURE SYNTHESIS AND CHARACTERIZATION OF \square - Fe_2O_3 PARTICLES. *IEEE T Magn.* 24, 1829-1831, (1988). A
47. J. Rodríguez, J. Bassas, X. Obradors, M. Vallet-Regí, J. González-Calbet, M. Anne, J. Pannetier. THE CHEMISTRY OF \square $\text{Ba}_2\text{Cu}_3\text{O}_7$: A NEUTRON POWDER THERMODIFFRACTOMETRY STUDY. *Phys. Rev. C*, 153-55, 1671-72 (1988). A
48. M. Vallet-Regí, M.V. Cabañas, J.M. González-Calbet. THE INFLUENCE OF THE SYNTHESIS PROCEDURE IN THE OBTENTION OF UNTWINNED SUPERCONDUCTORS. *Phys. Rev. C*, 153-55, 357-58 (1988). A
49. X. Obradors, C. Rillo, M. Vallet-Regí, A. Labarta, J. Fontcuberta, J. González-Calbet, F. Lera. DIAMAGNETISM AND ELECTRICAL CONNECTIVITY IN AN INHOMOGENEOUS $\text{Ba}_2\text{YCu}_3\text{O}_{7-x}$ SUPERCONDUCTOR. *Phys. Rev. C*, 153-55, 389-90, (1988). A
50. X. Obradors, A. Labarta, M. Vallet-Regí, J.M. González-Calbet. CRITICAL FIELDS IN $\text{Ba}_2\text{SmCu}_3\text{O}_{7-x}$ HIGH T_c SUPERCONDUCTOR FROM MAGNETIZATION MEASUREMENTS. *Phys. Rev. C*, 153-55, 1503-4, (1988).A
51. X. Obradors, M. Vallet-Regí, J. Rodríguez, J. Fontcuberta, A. Labarta, J.M. González-Calbet. STRUCTURAL, ELECTRICAL AND MAGNETIC PROPERTIES OF $\text{Ba}_2\text{ReCu}_{3-x}\text{Fe}_x\text{O}_{7-\square}$. (Re = Y, Ho) HIGH T_c SUPERCONDUCTORS. *Phys. Rev. C*, 153-55, 888-9, (1988). A
52. M. Parras, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario-Franco, J.C. Grenier. ELECTRON MICROSCOPY AND DIFFRACTION OF BARIUM-LANTHANUM FERRITES: $\text{Ba}_x\text{La}_{1-x}\text{FeO}_{3-y}$. *J. Solid State Chem.* 74, 110-116, (1988).
53. C. Rosique-Pérez, J.M. González-Calbet, M. Vallet-Regí, M.A. Alario-Franco. LITHIUM INSERTION IN REDUCED TUNGSTEN OXIDES I: $\text{Li}_{9,0}\text{W}_{19}\text{O}_{55}$. *J. Solid State Chem.* 76, 313-318, (1988). A
54. X. Obradors, A. Labarta, M. Vallet-Regí, J.M. González-Calbet, J. Tejada. MEISSNER EFFECT AND CRITICAL FIELDS IN AN INHOMOGENEOUS $\text{Ba}_2\text{HoCu}_3\text{O}_{7-x}$ HIGH T_c SUPERCONDUCTOR. *Phys. Rev. B.* 38, 2455-9, (1988). A
55. S. Vieira, M.A. Ramos, M. Vallet-Regí, J.M. González-Calbet. TUNNELING MEASUREMENTS OF THE ENERGY GAP IN $\text{Bi}_4\text{Ca}_3\text{Sr}_3\text{Cu}_4\text{O}_{16+\square}$. *Phys. Rev. B.* 38, 9295-8, (1988). A
56. S. Hovmoller, X. Zou, J.M. González-Calbet, M. Vallet-Regí, COMBINED HREM AND CRYSTALLOGRAPHIC IMAGE PROCESSING FOR THE DETERMINATION OF PEROVSKITE RELATED STRUCTURES. *Inst. Phys. Conf. Ser.* 93(1), 197-8, (1988), A
57. J.M. González-Calbet, M. Vallet-Regí. NON-STOICHIOMETRY IN $\text{Ca}_4\text{Fe}_2\text{Ti}_2\text{O}_{11+z}$. *Inst. Phys. Conf. Ser.* 93(2), 277-8, (1988). A
58. S. Hovmoller, X. Zou, D.N. Wang, J.M. González-Calbet, M. Vallet-Regí. STRUCTURE DETERMINATION OF $\text{Ca}_4\text{Fe}_2\text{Ti}_2\text{O}_{11}$ BY ELECTRON MICROSCOPY AND CRYSTALLOGRAPHIC IMAGE PROCESSING. *J. Solid State Chem.* 77, 316-321, (1988). A
59. R. Ardiaca, M. Medarde, X. Obradors, M. Vallet-Regí, M. Pernet, J. Rodríguez, J. Fontcuberta. $\text{BaFe}_{12}\text{O}_{19}$ SMALL PARTICLES: FORMATION, PARTICLE SIZE AND MAGNETIC PROPERTIES. *J. Phys. C.* 8, 12, 49, 1849-50, (1988) A
60. X. Batlle, J. Rodríguez, X. Obradors, M. Pernet, M. Vallet-Regí, CATIONIC DISTRIBUTION IN $\text{BaFe}_{12-2x}\text{Co}_x\text{Sn}_x\text{O}_{19}$ HEXAGONAL FERRITES SUITABLE FOR MAGNETIC RECORDING. *J. Phys. C.* 8, 12, 49, 939-40, (1988). A
61. D. Le Roux, H. Vincent, J.C. Joubert, M. Vallet-Regí. CRYSTAL GROWTH, STRUCTURE DETERMINATION AND ROOM TEMPERATURE RESISTIVITY OF THE LANTHANUM-SODIUM HEXAFERRITE $\text{La}_{0,7}\text{Na}_{0,3}\text{Fe}_{12}\text{O}_{19}$. *Mat. Res. Bull.* 23, 299-305, (1988). A
62. J. Fontcuberta, X. Obradors, M. Vallet-Regí, J.M. González-Calbet. MOSSBAUER EMISION STUDY OF ^{57}Co : $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$ HTSC. *Z. Phys. Rev. B: Condensed Matter*, 73, 143-148, (1988). A

63. J.M. González-Calbet, M.J. Sayagués, M. Vallet-Regí, AN ELECTRON DIFFRACTION STUDY OF NEW PHASES IN THE LaNiO_{3-x} SYSTEM. *Solid State Ionics*, 32/33, 721-726, (1989). A
64. J.M. González-Calbet, C. Rosique-Pérez, M. Vallet-Regí, M.A. Alario-Franco, J. Rodríguez. LITHIUM INSERTION IN REDUCED TUNGSTEN OXIDES. *Solid State Ionics*, 32/33, 162-166, (1989). A
65. X. Gradados, M. Carrera, J. Fontcuberta, M. Vallet-Regí, J.M. González-Calbet. ON THE EFFECTS OF HELIUM ABSORPTION ON THE SUPERCONDUCTING ONSET OF $\text{YBa}_2\text{Cu}_3\text{O}_{7-y}$. *Solid State Commun.* 69, 1073-77, (1989). A
66. X. Granados, M. Carrera, X. Obradors, N. Ferrer, J. Fontcuberta, F. Lera, C. Rillo, J. Bartolomé, R. Navarro, M. Vallet-Regí, M.V. Cabañas, J.M. González-Calbet. Y-Sm TWINNED AND UNTWINNED HIGH TEMPERATURE SUPERCONDUCTORS: A COMPARATIVE STUDY. *Cryogenics*, 29, 350-354, (1989). A
67. F. Lera, C. Rillo, R. Navarro, J. Bartolomé, X. Obradors, J. Fontcuberta, X. Granados, M. Carrera, M. Vallet-Regí, J.M. González-Calbet, J. Rodríguez, M. Medarde. DIAMAGNETISM AND CRITICAL CURRENTS OF Bi-Ca-Sr-Cu-O SAMPLES. *Cryogenics*, 29, 379-383, (1989). A
68. A. Fuertes, C. Miravittles, J.M. González-Calbet, M. Vallet-Regí, X. Obradors, J. Rodríguez. THE TUBULAR CRYSTAL STRUCTURE OF THE NEW PHASE $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19-x}$ RELATED TO THE SUPERCONDUCTING PEROVSKITES. *Phys. Rev. C*, 157, 525-530, (1989). A
69. J. Rodríguez, M. Vallet-Regí, J.M. González-Calbet. PEROVSKITE THREEFOLD SUPERLATTICES: A STRUCTURE DETERMINATION OF THE $\text{A}_3\text{M}_3\text{O}_8$ PHASE. *Mat. Res. Bull*, 24, 423-430, (1989). A
70. M. Vallet-Regí, J.M. González-Calbet, J. Ramírez, C. Rillo, F. Lera, J. Fontcuberta, X. Granados, M. Carrera. INFLUENCE OF THE SYNTHESIS CONDITIONS ON THE SUPERCONDUCTING BEHAVIOUR OF Bi-COMPOUNDS. *Advances in Ferrites*, 691-695, (1989). A
71. M. Vallet-Regí, M. Parras, J.M. González-Calbet, J.C. Grenier. HEXAGONAL PEROVSKITES IN THE BaFeO_{3-y} SYSTEM. *Advances in Ferrites*, 1143-1147, (1989). A
72. J.M. González-Calbet, M. Vallet-Regí, J. Rodríguez. THE $\text{A}_3\text{M}_3\text{O}_8$ PHASE: A STRUCTURAL STUDY. *Advances in Ferrites*, 1161-1165, (1989). A
73. J.M. González-Calbet, J.M. Alonso, M. Vallet-Regí, ORDER-DISORDER IN $\text{CaFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ PEROVSKITELIKE FERRITES. *Advances in Ferrites*, 1155-159, (1989). A
74. J. Ramírez, M. Vallet-Regí, J. M. González-Calbet. TWINNING IN THE $\text{Ca}_y\text{La}_{1-y}\text{Fe}_x\text{Cr}_{1-x}\text{O}_3$ SYSTEM. *Advances in Ferrites*, 1167-1171, (1989). A
75. X. Batlle, M. Pernet, X. Obradors, M. Vallet-Regí. HIGH FIELD MAGNETIZATION STUDY OF DOPED BARIUM FERRITE. *Advances in Ferrites*, 423-427, (1989). A
76. M. Medarde, J. Rodríguez, M. Vallet-Regí, M. Pernet, X. Obradors, J. Pannetier. SYNTHESIS OF $\text{BaFe}_{12}\text{O}_{19}$ SMALL PARTICLES: A NEUTRON THERMODIFFRACTOMETRY STUDY. *Phys. Rev. B*, 156-157, 36-39, (1989). A
77. J.C. Grenier, A. Wattiaux, M. Pouchard, P. Hagenmuller, M. Parras, M. Vallet-Regí, J.M. González-Calbet, M.A. Alario. SUR LE SYSTEME BaFeO_{3-y} ($0 < y < 0.50$). *J. Solid State Chem.* 80, 6-11, (1989). A
78. J.C. Grenier, L. Fournes, M. Pouchard, P. Hagenmuller, M. Parras, M. Vallet-Regí, J.M. González-Calbet. MOSSBAUER RESONANCE STUDY OF THE 6H-TYPE $\text{BaFeO}_{2.72}$. *Z. Anorg. Allg. Chem.* 576, 108-116, (1989). A
79. J.M. González-Calbet, M. Vallet-Regí, J. Alonso, J. Rodríguez, J. Fontcuberta. MICRODOMAINS IN THE $\text{CaFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ FERRITES III. $0.5 < x < 0.9$. *J. Solid State Chem.* 81, 1-8, (1989). A
80. M. Carrera, X. Granados, J. Fontcuberta, M. Vallet-Regí, J.M. González-Calbet. TWINS, ELECTRON-PHONON COUPLING AND FLUCTUATIONS IN $\text{Y}_{0.5}\text{Sm}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_{7-y}$. *Phys. Rev. C*, 157, 285-292, (1989). A
81. M. Parras, J.M. González-Calbet, M. Vallet-Regí, J.C. Grenier, P. Hagenmuller, J. Rodríguez-Carvajal. A STRUCTURAL STUDY OF 12H $\text{BaFeO}_{2.93}$. *Eur. J. Solid State Chem.* 26, 299-312, (1989). A

82. J. Fontcuberta, M.A. Crusellas, J. Rodríguez-Carvajal, M. Vallet-Regí, J. Alonso, J. González-Calbet. MÖSSBAUER STUDY OF VACANCY DISTRIBUTION IN $\text{CaMn}_{1-x}\text{Fe}_x\text{O}_{3-y}$ ($x = 0.5, 0.6$). *J. Solid State Chem.* 83, 150-157, (1989). A
83. M. Parras, M. Vallet-Regí, J.M. González-Calbet, J.C. Grenier. OXYGEN VACANCY DISTRIBUTION IN 6H BaFeO_{3-y} ($0.20 < y < 0.35$). *J. Solid State Chem.* 83, 121-131, (1989). A
84. J. Bartolomé, F. Lera, R. Navarro, C. Rillo, J.M. González-Calbet, J. Ramírez, M. Vallet-Regí, M. Carrera, J. Fontcuberta, X. Granados, X. Obradors, F. Pérez. INFLUENCE OF Sb AND Pb SUBSTITUTION ON THE PHYSICAL PROPERTIES OF THE Bi-Sr-Ca-Cu-O COMPOUNDS. *Phys. Rev. C*, 162-4, 863-4, (1989). A
85. M.T. Caldés, A. Fuertes, J. González-Calbet, M. Vallet-Regí, A. García, X. Obradors, J. Fontcuberta, J. Rodríguez, C. Miravittles, F. Pérez. ELECTRON MICROSCOPY, ELECTRICAL RESISTIVITY AND MAGNETIC PROPERTIES OF THE NEW TUBULAR PHASE $\text{Bi}_4\text{Sr}_9\text{Cu}_5\text{O}_{19+x}$. *Phys. Rev. C*, 162-4, 865-6, (1989).A
86. M. Carrera, X. Granados, M.A. Crusellas, J. Fontcuberta, X. Obradors, J.L. García-Muñoz, J. Rodríguez, M. Vallet-Regí, J. González-Calbet, C. Rillo, F. Lera. ON INHOMOGENEOUS SUPERCONDUCTIVITY IN Fe SUBSTITUTED $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. *Phys. Rev. C*, 162-4, 41-2, (1989). A
87. X. Batlle, J.L. García-Muñoz, M. Medarde, J. Rodríguez, X. Obradors, J.L. Martínez, M. Vallet-Regí, J. González-Calbet, M.J. Sayagués, J. Fontcuberta. ANTIFERROMAGNETISM IN $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4-y}$. *Phys. Rev. C*, 162-4, 1273-1274, (1989). A
88. M. Carrera, X. Granados, J. Fontcuberta, X. Obradors, M. Vallet-Regí, J.M. González-Calbet. FLUCTUATIONS AND CRITICAL FIELDS IN (Y-Sm) HTSC. *Phys. Rev. C*, 162-4, 723-4, (1989). A
89. R. Villar, S. Bourgel, S. Vieira, J.M. González-Calbet, M. Vallet-Regí, THERMAL EXPANSION AND HEAT CAPACITY OF $\text{Bi}_4\text{Ca}_3\text{Sr}_3\text{Cu}_4\text{O}_{16+\delta}$ AT LOW TEMPERATURE. *Phys. Rev. C*, 162-4, 566-7, (1989). A
90. X. Batlle, X. Obradors, M. Pernet, M. Vallet-Regí, M.V. Cabañas, J. Rodríguez, J. Fontcuberta. CATIONIC DISTRIBUTION, MAGNETIZATION AND MAGNETIC ANISOTROPY OF Co^{2+} DOPED M-TYPE BARIUM FERRITE. *J. Magn. Magn. Mater.* 83, 465-67, (1990). A
91. X. Obradors, J. Tejada, J. Rodríguez, F. Pérez, M. Vallet-Regí, J. González-Calbet, M. Medarde. LOW TEMPERATURE MAGNETIZATION OF ANTIFERROMAGNETIC $\text{YBa}_2\text{Cu}_3\text{O}_6$. *J. Magn. Magn. Mater.* 83, 517-8, (1990). A
92. J.M. González-Calbet, J. Ramírez, M. Vallet-Regí, NON-STOICHIOMETRY AND TWINNING IN PEROVSKITE RELATED CHROMITES. *J. Less. Common Met.*, 157, 271-279, (1990). A
93. X. Granados, X. Batlle, M. Medarde, X. Obradors, J. Fontcuberta, J. Rodríguez, M. Vallet-Regí, J.M. González-Calbet, J. Alonso, M.J. Sayagués. TRANSPORT AND MAGNETIC PROPERTIES VERSUS HOLE DOPING IN $(\text{La,Nd})_2\text{NiO}_{4+\delta}$. *J. Less. Common. Met.*, 164-165, 853-61, (1990). A
94. M. Vallet-Regí, E. García, J.M. González-Calbet, STRUCTURAL INTERGROWTHS IN Fe SUBSTITUTED Y-Ba-Cu-O. *J. Less. Common. Met.*, 161, 159-64, (1990). A
95. J.M. González Calbet, M. Parras, M. Vallet-Regí, J.C. Grenier. IRRADIATION-INDUCED PHASE TRANSITION IN $\text{Ba}_2\text{Fe}_2\text{O}_5$. *J. Solid State Chem.* 85, 15-22, (1990). A
96. M. Vallet-Regí, M.V. Cabañas, J. Ramírez, J.M. González-Calbet. SYNTHESIS AND MICROSTRUCTURAL CHARACTERIZATION OF SUPERCONDUCTING OXIDES. *Superconductivity in Spain: Research Activities in 1989*. p. 183-189, Ed. Félix Yndurain (PROGRAMA MIDAS, RED ELÉCTRICA, UNESA, CICYT), (1990). CL
97. S. Nicolopoulos, M. Vallet-Regí, J.M. González-Calbet. MICROSTRUCTURAL STUDY OF HEXAFERRITES RELATED COMPOUNDS: $\text{Z}(\text{Ba}_3\text{Cu}_2\text{Fe}_{24}\text{O}_{41})$ AND BaFe_2O_4 PHASE. *Mat. Res. Bull*, 25, 567-74, (1990). A
98. S. Nicolopoulos, M. Vallet-Regí, J.M. González-Calbet. HREM STUDY AND STRUCTURE ANALYSIS OF THE $\text{Z}(\text{Ba}_3\text{Cu}_2\text{Fe}_{24}\text{O}_{41})$ HEXAGONAL FERRITE. *Mat. Res. Bull*, 25, 845-53, (1990). A.
99. J.L. García-Muñoz, J. Rodríguez-Carvajal, X. Obradors, M. Vallet-Regí, J.M. González-Calbet, E. García. FERROMAGNETIC LAYERS IN $\text{Y}_2\text{Cu}_2\text{O}_5$: A NEUTRON DIFFRACTION STUDY. *Phys. Lett. A*, 149, 319-27, (1990). A

100. J.M. González-Calbet, M. Vallet-Regí, X. Obradors. PREPARATION METHODS OF POLYCRYSTALLINE $\text{YBa}_2\text{Cu}_3\text{O}_7$: INFLUENCE ON THE SUPERCONDUCTING PROPERTIES. A Review for: "Studies of High Temperature Superconductors" Ed. A.V. Narlikar, Nova Science Publishers Inc. Vol. 6, (1990). R
101. A. Fuertes, M.T. Caldés, J.M. Navarro, X. Obradors, C. Miravittles, J. Rodríguez-Carvajal, M. Vallet-Regí and J.M. González-Calbet. HIGH RESOLUTION NEUTRON POWDER DIFFRACTION STUDY OF THE TUBULAR PHASE $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19+x}$. High Temperature Superconductors: Fundamental Properties and Novel Material Processing. *Antes Mat. Res. Soc. Symp. Proc.* 169, 133-136, (1990). A
102. J.M. González-Calbet, M. Parras, M. Vallet-Regí, J.C. Grenier. NONSTOICHIOMETRY IN BaFeO_{3-y} ($0.35 < y < 0.50$). *J. Solid State Chem.* 86, 149-59, (1990). A
103. M. Carrera, M.A. Crusellas, J. Fontcuberta, X. Granados, J. Jurado, X. Obradors, F. Pérez, M.V. Cabañas, J.M. González-Calbet, M. Vallet-Regí, E. García, J.L. García-Muñoz, J. Rodríguez-Carvajal, F. Lera, C. Rillo. MICROSTRUCTURE, SUPERCONDUCTIVITY AND MAGNETISM IN $\text{YBa}_2\text{Cu}_3\text{O}_7$ -TYPE OXIDES. Superconductivity in Spain: Research Activities in 1989. p. 61-68. Ed. Félix Yndurain (MIDAS PROGRAM - RED ELECTRICA, UNESA, CICYT). (1990) CL
104. J. Alonso, X. Batlle, M.T. Fernández, F. Fernández, J. Fontcuberta, J.L. García-Muñoz, J. González-Calbet, X. Granados, J.L. Martínez, M. Medarde, X. Obradors, J. Rodríguez-Carvajal, R. Saez-Puche, M.J. Sayagués, M. Vallet-Regí. STRUCTURAL PHASE TRANSITIONS, MAGNETISM AND TRANSPORT PROPERTIES IN STOICHIOMETRIC AND HOLE DOPED $(\text{La,Nd})_2\text{NiO}_4$ OXIDES. Superconductivity in Spain: Research Activities in 1989. p. 25-38. Ed. Félix Yndurain (MIDAS PROGRAM - RED ELECTRICA, UNESA, CICYT). (1990) CL
105. A. Fuertes, M.T. Caldés, J.M. Navarro, F. Pérez, B. Martínez, S. Piñol, C. Miravittles, X. Obradors, J. Fontcuberta, J.L. García-Muñoz, J. Rodríguez-Carvajal, J. González-Calbet, M. Vallet-Regí, F. Lera, C. Rillo. CRYSTAL GROWTH, CRYSTAL STRUCTURE AND PHYSICAL PROPERTIES OF PEROVSKITE AND RELATED Cu OXIDES. Superconductivity in Spain: Research Activities in 1989. p. 107-20. Ed. Félix Yndurain (MIDAS PROGRAM-RED ELECTRICA, UNESA, CICYT). (1990) CL
106. M. Parras, L. Fournes, J.C. Grenier, M. Pouchard, M. Vallet-Regí, J.M. González-Calbet, P. Hagenmuller. STRUCTURAL ASPECTS AND MOSSBAUER RESONANCE INVESTIGATION OF $\text{Ba}_2\text{Fe}_2\text{O}_5$. *J. Solid State Chem.* 88, 261-68, (1990). A
107. J.M. González-Calbet, S. Nicolopoulos, M. Vallet-Regí. HREM STUDY AND IMAGE MATCHING OF BaFe_2O_4 . *J. Less Common Metals*, 166, 343-52, (1990). A
108. J. Fontcuberta, J. Jurado, X. Obradors, M.V. Cabañas, M. Vallet-Regí, J.M. González-Calbet. EVIDENCE FOR A KOSTERLITZ-THOULESS TRANSITION IN HIGH QUALITY YBaCuO CERAMICS. *J. Less Common Metals*, 164-65, 160-66, (1990). A
109. M. Parras, J.M. González-Calbet, M. Vallet-Regí, J.C. Grenier. AN ELECTRON MICROSCOPY STUDY OF THE $\text{Ba}_x\text{La}_{1-x}\text{FeO}_{3-y}$ ($1/2 \leq x \leq 2/3$). *Proceedings of the International Congress for Electron Microscopy*, 4, 608-609, (1990). A
110. M. Vallet-Regí, S. Nicolopoulos, J.M. González-Calbet. HREM STUDY OF M, Y AND W HEXAGONAL TYPE FERRITES. *Proceedings of the International Congress for Electron Microscopy*, 4, 776-777, (1990). A
111. J.M. González-Calbet, S. Nicolopoulos, M. Vallet-Regí. MICROSTRUCTURE OF BARIUM MONOFERRITE BaFe_2O_4 *Proceedings of the International Congress for Electron Microscopy*, 4, 778-779, (1990). A
112. M. Vallet-Regí, M. Parras, J.M. González-Calbet, J.C. Grenier. MICRODOMAINS IN BaFeO_{3-y} . *Proceedings of the International Congress for Electron Microscopy*, 4, 780-781, (1990). A
113. M. Medarde, X. Batlle, X. Granados, X. Obradors, J. Fontcuberta, J. Rodríguez, M. Vallet-Regí, J.M. González-Calbet, J. Alonso, M.J. Sayagués, J.L. Martínez, A. Fontaine. HOLE DOPING IN $(\text{RE})_2\text{NiO}_{4+\delta}$. *Springer Series in Solid - State Sci.* 99, 166-171, (1990). A
114. J. Fontcuberta, J. Jurado, X. Obradors, M.V. Cabañas, M. Vallet-Regí, J.M. González-Calbet. KOSTERLITZ-THOULESS TRANSITION IN HIGH QUALITY YBaCuO CERAMICS. *Progress in High Temperature Superconductivity*, R. Nicolsky ed. World Scientific. 25, 273-276, (1990). A

115. X. Obradors, F. Pérez, J. Jurado, M.A. Crusella, J. Fontcuberta, M. Vallet-Regí, J.M. González-Calbet, E. García. LOW FIELD SUPERCONDUCTING GLASS PHASE DIAGRAM IN Fe DOPED $\text{YBa}_2\text{Cu}_3\text{O}_7$. Transport Properties of Superconductors, R. Nicolisky ed. World Scientific. 25, 277-82, (1990). A
116. M. Vallet-Regí, J.M. González-Calbet. SYNTHESIS AND MICROSTRUCTURAL CHARACTERIZATION OF $\text{YBa}_2\text{Cu}_3\text{O}_7$ AND RELATED SUPERCONDUCTORS. Proceedings of the Leru Workshop. Flux Pinning in HTSC, 1, 18-20. (1990) A.
117. A. Caneiro, M.J. Sayagués, J.M. González-Calbet, M. Vallet-Regí. MICROSTRUCTURE AND OXYGEN CONTENT IN $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4\pm\delta}$. Superconductivity: Materials, Physics and Applications, Ed. By B. Roveau, K. Wasa, R. Suryanarayanan. IITT International, Gournay sur Marne. 145-150 (1991). CL
118. M. Parras, E. García, J.M. González-Calbet, M. Vallet-Regí. NON-STOICHIOMETRY IN LANTHANIDE SUBSTITUTED $\text{Ba}_2\text{Fe}_2\text{O}_{5\pm\delta}$. J. Less. Common Met. 169, 25-31, (1991). A
119. G. Rivero, I. Navarro, P. Crespo, E. Pulido, A. García-Escorial, A. Hernando, M. Vázquez, M. Vallet-Regí, J.M. González-Calbet. MAGNETIC AND STRUCTURAL PROPERTIES OF ELECTRODEPOSITED $\text{Co}_{1-x}\text{P}_x$ AMORPHOUS RIBBONS. J. Appl. Phys. 69 (8), 5454-6, (1991). A
120. J.M. González-Calbet, M. Parras, M. Vallet-Regí, J.C. Grenier. ANIONIC VACANCY DISTRIBUTION IN REDUCED BARIUM-LANTHANUM FERRITES $\text{Ba}_x\text{La}_{1-x}\text{FeO}_{3-x/2}$. ($1/2 \leq x \leq 2/3$). J. Solid State Chem. 92, 110-115, (1991). A
121. J.L. García Muñoz, J. Rodríguez Carvajal, X. Obradors, M. Vallet-Regí, J. González Calbet, M. Parras. COMPLEX MAGNETIC STRUCTURES OF THE RARE-EARTH CUPRATES $\text{R}_2\text{Cu}_2\text{O}_5$ (R = Y, Ho, Er, Yb, Tm). Phys. Rev. B, 44 (9), 4716-9, (1991). A
122. X. Obradors, X. Batlle, J. Rodríguez, J.L. Martínez, M. Vallet-Regí, J.M. González-Calbet, J. Alonso. MAGNETIC TRANSITIONS IN Nd_2NiO_4 . Phys. Rev. B.43, 10451-4, (1991). A
123. X. Batlle, M.V. Cabañas, X. Obradors, M. Vallet-Regí, J. Rodríguez-Carvajal. NEUTRON DIFFRACTION STUDIES OF M-TYPE HEXAGONAL FERRITES: FROM FERRIMAGNETISM TO SPIN-GLASS BEHAVIOUR. "Spanish Scientific Research Using Neutron Scattering Techniques, 1986-1991, 47-57, (1991). CL
124. M. Vallet-Regí, M. Labeau, E. García, M.V. Cabañas, J. M. González-Calbet, G. Delabouglise. THIN FILMS OF MAGNESIUM OXIDE BY MODIFIED CVD: A BUFFER LAYER FOR HTCS FILMS. Phys. Rev. C. 180, 57-60, (1991). A
125. M.T. Caldes, J.M. Navarro, F. Pérez, M. Carrera, J. Fontcuberta, N. Casan-Pastor, C. Miravittles, X. Obradors, J. Rodríguez-Carvajal, J.M. González Calbet, M. Vallet-Regí, A. Fuertes. ELECTRON MICROSCOPY, NEUTRON DIFFRACTION AND PHYSICAL PROPERTIES OF $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19+y}$. Chem. Mater. 3, 844-852, (1991). A
126. X. Batlle, X. Obradors, J. Rodríguez Carvajal, M. Pernet, M.V. Cabañas, M. Vallet-Regí. CATION DISTRIBUTION AND INTRINSIC MAGNETIC PROPERTIES OF Co-Ti DOPED M-TYPE BARIUM FERRITE. J. Appl. Phys. 70(3), 1614-1623, (1991). A
127. M.J. Sayagués, M. Vallet-Regí, A. Caneiro, A. García, J.M. González-Calbet. MICROSTRUCTURAL STUDY OF THE LaNiO_{3-x} SYSTEM. Inst. Phys. Conf. Ser. 119(7), 315-318, (1991). A
128. Batlle, A. Labarta, B. Martínez, X. Obradors, M.V. Cabañas, M. Vallet-Regí. SPIN GLASS TRANSITION IN $\text{BaCo}_6\text{Ti}_6\text{O}_{19}$. J. Appl. Phys. 70(10), 6172-6174, (1991). A
129. García, J.M. González-Calbet, A. García, M. Vallet-Regí. HREM STUDY OF $\text{YBaCu}_{3-x}\text{Fe}_x\text{O}_{7+\delta}$. Inst. Phys. Conf. Ser. 119(2), 91-94, (1991). A
130. J.M. González-Calbet, M. Vallet-Regí. NONSTOICHIOMETRY RANGE IN $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Proceedings of the Cambridge Workshop on Flux Pinning in HTSC III, 7-9. (1991)
- 131 J.M. González-Calbet, A. Caneiro, J. Ramírez, M. Vallet-Regí. OXYGEN CONTENT AND MICROSTRUCTURE IN $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physica C, 185-189, 637-638, (1991). A
- 132 M.Vallet-Regí, A. Caneiro, J.M. González-Calbet, J. Ramírez, C. Rillo, A. Badía, L.A. Angurel, F. Lera, R. Navarro. INFLUENCE OF OXYGEN STOICHIOMETRY ON Tc AND PINNING FORCE OF $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physica C, 185-189, 2475-2476, (1991). A

133. F. Pérez, X. Obradors, J. Fontcuberta, M. Vallet-Regí, J. González-Calbet. MAGNETIC IRREVERSIBILITY IN GRANULAR SUPERCONDUCTORS: AC SUSCEPTIBILITY STUDY. *Physica C*. 185-189, 1843-1844, (1991). A
134. M.Vallet-Regí, A. Caneiro, J. Ramírez, J.M. González-Calbet. CONTROL OF OXYGEN CONTENT IN HTSC. Proceedings of the Vienna Workshop on Flux Pinning in HTSC II. 25-27, (1991)
135. J.M. González-Calbet, M. Vallet-Regí, A. Caneiro, J. Ramírez, A. Badía, C. Rillo, F. Lera, R. Navarro. OXYGEN STOICHIOMETRY, CRITICAL TEMPERATURE AND PINNING MECHANISMS IN 2212 BSCCO SUPERCONDUCTOR. *Physica C*, 203, 223-230, (1992). A
136. M. Medarde, J. Rodríguez-Carvajal, X. Obradors, M. Vallet-Regí, J.M. González-Calbet, J. Alonso. SPIN REORIENTATIONS IN $\text{Nd}_{1.8}\text{Sr}_{0.2}\text{NiO}_{3.8}$. *Physica B*, 180-181, 402-404. (1992). A
137. M. Medarde, J. Rodríguez-Carvajal, X. Obradors, M. Vallet-Regí, J.M. González-Calbet, M.J. Sayagués. OXYGEN VACANCY ORDERING IN $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4-\delta}$. *Physica B*, 180-181, 399-401. (1992). A
138. M.T. Causa, R.D. Zysler, M. Tovar, M. Vallet-Regí, J.M. González-Calbet. MAGNETIC PROPERTIES OF THE $\text{Ca}_n\text{Fe}_2\text{Ti}_{n-2}\text{O}_{3n-1}$ PEROVSKITE RELATED SERIES: AN EPR STUDY. *J. Solid State Chem.* 98, 25-32, (1992).A
139. X. Batlle, B. Martínez, X. Obradors, M. Pernet, M. Vallet-Regí, J. González-Calbet, J. Alonso. STUDY OF THE MAGNETIC PROPERTIES OF Nd_2NiO_4 . *J. Magn. Magn. Mater.* 104-107, 918-920 (1992). A
140. B. Martínez, X. Obradors, E.J. Ansaldo, C. Niedermayer, D.R. Noakes, M.J. Sayagués, M. Vallet-Regí, J. González-Calbet. $\mu^+\text{SR}$ STUDY OF MAGNETIC ORDER IN $\text{La}_2\text{NiO}_{4+\delta}$. *J. Magn. Magn. Mater.* 104-107, 941-943, (1992). A
141. X. Batlle, X. Obradors, M.J. Sayagués, M. Vallet-Regí, J. González Calbet. WEAK FERROMAGNETISM AND MAGNETIC INTERACTIONS IN LaNi_2O_4 . *J. Phys: Condens Matter.* 4, 487-496 (1992). A
142. X. Granados, J. Fontcuberta, J. Alonso, M. Vallet-Regí, J.M. González Calbet. APPROACHING THE I-M TRANSITION IN $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. *Physica C*, 191, 371-376, (1992). A
143. A. Caneiro, M.Vallet-Regí, J. Ramírez, P. Crespo, J.M. González Calbet. STABILITY RANGE AND T_c VARIATION OF SUPERCONDUCTING $\text{Bi}_{1.92}\text{Sr}_{1.89}\text{Ca}_{1.04}\text{Cu}_2\text{O}_y$. *Solid State Commun.* 82, 2, 95-100. (1992). A
144. J. Fontcuberta, J. Jurado, X. Obradors, M.V. Cabañas, M. Vallet-Regí, J.M. González-Calbet. TOPOLOGICAL EXCITATIONS VS INTERGRANULAR PHASE COHERENCE IN A HTSC $\text{Y}_{0.5}\text{Sm}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_7$ CERAMICS. *Z. Phys. B. Condensed Matter*, 87, 21-28. (1992). A
145. M.V. Cabañas, J.M. González-Calbet, M. Labeau, P. Mollard, M. Pernet, M. Vallet-Regí. EVOLUTION OF THE MICROSTRUCTURE AND ITS INFLUENCE ON THE MAGNETIC PROPERTIES OF AEROSOL SYNTHESIZED $\text{BaFe}_{12}\text{O}_{19}$ PARTICLES. *J. Solid State Chem.* 101, 265-274, (1992). A
146. M. Labeau, M. Vallet-Regí, V. Ragel, J. Román, J. Martínez, J. Peña, E. García, A. Varela, B. Gatheron, J.M. González-Calbet. SEM AND TEM STUDY OF METALLIC NANOPARTICLES DISPERSED ON SnO_2 . Proceedings of the International Congress for Electron Microscopy. EUREM 92, 2, 655-656. (1992). A
147. M.V. Cabañas, M. Vallet-Regí, M. Labeau, J.M. González-Calbet. A STUDY BY SEM OF IRON OXIDE SMALL PLARTICLES. Proceedings of the International Congress for Electron Microscopy. EUREM 92, 2, 395-396. (1992). A
148. M.J. Sayagués, M. Vallet-Regí, A. Caneiro, J.M. González-Calbet. A NEW $\text{La}_2\text{NiO}_{4+\delta}$ SUPERSTRUCTURE. Proceedings of the International Congress for Electron Microscopy. EUREM 92, 2, 49-50, (1992). A
149. E. García, M. Parras, J.M. González-Calbet, M. Vallet-Regí. ORDERED DEFECTS ON THE PEROVSKITE-RELATED SYSTEM $\text{REBa}_2\text{Fe}_3\text{O}_{8+y}$ (I) Proceedings of the International Congress for Electron Microscopy. EUREM 92, 2, 409-410. (1992). A
150. E. García, M. Parras, J.M. González-Calbet, M. Vallet-Regí. ORDERED DEFECTS ON THE PEROVSKITE-RELATED SYSTEM $\text{REBa}_2\text{Fe}_3\text{O}_{8+y}$ (II). Proceedings of the International Congress for Electron Microscopy. EUREM 92, 2, 411-412. (1992). A

151. E. García, M. Parras, M. J. Sayagués, M. Vallet-Regí and J. M. González Calbet. ESTUDIO POR MICROSCOPIA ELECTRÓNICA DE ALTA RESOLUCIÓN DE Ba₂NdFe₃O_{8.40}. *Microscopía Electrónica* 92, 221-222 (1992). A
152. M. Parras, X. D. Zou, S. Hovmoller, M. Vallet-Regí, J. C. Grenier and J. M. González Calbet. DETERMINACIÓN ESTRUCTURAL DEL Ba₂Fe₂O₅ POR HREM Y CIP. *Microscopía Electrónica* 92, 259-260 (1992). A
153. M. Vallet-Regí, V. Ragel, J. Román, J.L. Martínez, M. Labeau, J.M. González Calbet. TEXTURE EVOLUTION OF SnO₂ SYNTHESIZED BY PYROLYSIS OF AN AEROSOL. *J. mater. res.* 8, 138-144, (1993) A.
154. X. Granados, J. Fontcuberta, M. Vallet-Regí, M.J. Sayagués, J.M. González-Calbet. BAND GAP CLOSING IN La_{2-x}Sr_xNiO_{4+δ}. *J. Solid State Chem.* 102, 455-464, (1993). A
155. M. Labeau, B. Gautheron, F. Cellier, M. Vallet-Regí, E. García, J.M. González Calbet. Pt NANOPARTICLES DISPERSED ON SnO₂ THIN FILMS. A MICROSTRUCTURAL STUDY. *J. Solid State Chem.* 102, 434-439, (1993). A
156. R.D. Sánchez, M.T. Causa, J. Sereni, M. Vallet-Regí, M.J. Sayagués, J.M. González Calbet. SPECIFIC HEAT, MAGNETIC SUSCEPTIBILITY AND ELECTRICAL RESISTIVITY MEASUREMENTS ON LaNiO₃. *J. Alloy Compd.* 191.2, 287-289, (1993). A
157. M. Labeau, B. Gautheron, G. Delabouglise, J. Peña, V. Ragel, A. Varela, J. Román, J. Martínez, J.M. González Calbet, M. Vallet-Regí. SYNTHESIS, STRUCTURE AND GAS SENSITIVITY PROPERTIES OF PURE AND DOPED SnO₂. *Sensor Actuat. B-Chem*, 15-16, 379-383 (1993). A
158. R.D. Sánchez, M.T. Causa, M.J. Sayagués, J.M. González-Calbet, M. Vallet-Regí, X. Obradors. ELECTRON SPIN RESONANCE OF La_{2-x}Sr_xNiO_{4+δ}. *Physica B*, 190, 177-182 (1993). A
159. J.M. González-Calbet, M. Parras, J.M. Alonso, M. Vallet-Regí. MICROSTRUCTURAL INVESTIGATION OF OXYGEN-DEFICIENT BaMnO_{3-y} HEXAGONAL PEROVSKITES. *J. Solid State Chem.* 106, 99-110 (1993) A
160. M. Vallet-Regí, J. Peña, A. Martínez, J.M. González-Calbet. SELECTION OF STRUCTURAL TYPE AND PARTICLE SIZE IN TITANIUM (IV) OXIDE. *J. Mater. Res.* 8, 2336-2343, (1993). A
161. X. Batlle, X. Obradors, M. Medarde, J. Rodríguez-Carvajal, M. Pernet, M. Vallet-Regí. SURFACE SPIN CANTING IN BaFe₁₂O₁₉ FINE PARTICLES. *J. Magn. Magn. Mater.* 124, 228-238 (1993). A
162. E. García González, M. Parras, J.M. González Calbet, M. Vallet-Regí. A NEW "123" FAMILY: LnBa₂Fe₃O_y. (I). Ln = Dy, Ho. *J. Solid State Chem.* 104, 232-238 (1993). A
163. E. García González, M. Parras, J.M. González Calbet, M. Vallet-Regí. A NEW "123" FAMILY: LnBa₂Fe₃O_y. (II). Ln = Nd, Sm and Eu. *J. Solid State Chem.* 105, 363-370 (1993). A
164. M. Vallet-Regí, J. Ramírez, C.V. Ragel, J.M. González-Calbet. SYNTHESIS OF MIXED OXIDES BY DECOMPOSITION OF POLYMERIC ACIDS. *Solid State Ionics*, 63-63, 60-65 (1993). A
165. M. Labeau, B. Gautheron, J. Peña, J.M. González-Calbet, M. Vallet-Regí. SYNTHESIS OF PURE AND Pd-DOPED SnO₂ PARTICLES. *Solid State Ionics*, 63-65, 159-163 (1993). A
166. M. Vallet-Regí, C.V. Ragel, J. Román, J. Martínez, M. Labeau, A. Varela, J.M. González Calbet. SYNTHESIS OF CASSITERITE BY PYROLYSIS OF AN AEROSOL. *Solid State Ionics*, 63-65, 164-169 (1993). A
167. M. Vallet-Regí, J. Peña, A. Martínez, J.M. González Calbet. INFLUENCE OF THE SYNTHETIC METHOD ON THE TiO₂ TEXTURE. *Solid State Ionics*, 63-65, 201-206 (1993). A
168. M.V. Cabañas, J.M. González Calbet, M. Vallet-Regí. INFLUENCE OF THE SYNTHETIC ROUTE ON THE BaFe₁₂O₁₉ PROPERTIES. *Solid State Ionics*, 63-65, 207-212 (1993). A
169. M. Parras, J. Alonso, J. González Calbet, M. Vallet-Regí. COMPOSITIONAL VARIATIONS AND STRUCTURAL DISORDER IN THE BaMnO_{3-y} SYSTEM. *Solid State Ionics*, 63-65, 614-619 (1993). A
170. M. Parras, M. Vallet-Regí, J.C. Grenier, J.M. González Calbet. A HIGH TEMPERATURE STUDY OF THE BaFeO_{3-y} SYSTEM. *Solid State Ionics*, 63-65, 714-720 (1993). A

171. E. García, M. Vallet-Regí, A. Reller, J.M. González Calbet. THERMOGRAVIMETRIC AND MICROSTRUCTURAL STUDIES ON $\text{YBa}_2\text{Cu}_{3-x}\text{Fe}_x\text{O}_y$. *Solid State Ionics*, 63-65, 866-871 (1993). A
172. F. Conde, J. Velázquez, M.J. Sayagués, R.P. del Real, J. Ramírez, G. Rivero, A. Hernando, M. Vallet-Regí, J.M. González Calbet. MAGNETIC FIELD SENSOR WITH SUPERCONDUCTING CORE. *Superconductivity in Spain. (1990-1992 Research Activities)*, Ed. Félix Yndurain (MIDAS PROGRAM, CICYT-OCIDE-REE-UNESA) (1993). 121-128. CL
173. J.M. González Calbet, A. Caneiro, M.J. Sayagués, J.M. Alonso, J. Ramírez, A. Varela, M. Vallet-Regí. OXYGEN CONTENT AND MICROSTRUCTURE IN HIGH T_c SUPERCONDUCTORS AND RELATED OXIDES. *Superconductivity in Spain. (1990-1992 Research Activities)*, Ed. Félix Yndurain (MIDAS PROGRAM, CICYT-OCIDE-REE-UNESA). 291-311 (1993). CL
174. J. Alonso, M. Vallet-Regí, J.M. González Calbet. PHASE TRANSITIONS AND OXYGEN CONTENT IN THE $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ SYSTEM. *Solid State Ionics*, 66, 219-223, (1993). A
175. M. J. Sayagués, M. Vallet Regí, A. Caneiro, J. M. González Calbet. NONSTOICHIOMETRY IN THE $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\square}$ SYSTEM. *Solid State Ionics*, 66, 21-26. (1993). A
176. A. Varela, M. Vallet-Regí, J.M. González Calbet. INFLUENCE OF THE OXYGEN CONTENT ON THE STABILITY OF T' AND T^* -PHASES. *Solid State Ionics*, 66, 35-40, (1993). A
177. M.V. Cabañas, M. Vallet-Regí, M. Labeau, J.M. González-Calbet. SPHERICAL IRON OXIDE PARTICLES SYNTHESIZED BY AN AEROSOL TECHNIQUE. *J. mater. res.* 8, 2694-2701 (1993). A
178. X.D. Zou, S. Hovmöller, M. Parras, J.M. González-Calbet, M. Vallet-Regí, J.C. Grenier. THE COMPLEX PEROVSKITE-RELATED SUPERSTRUCTURE $\text{Ba}_2\text{Fe}_2\text{O}_5$ SOLVED BY HREM AND CIP. *Acta Crystallogr. A* 49, 27-35, (1993). A
179. M.V. Cabañas, J.M. González-Calbet, M. Vallet-Regí. SYNTHESIS OF BARIUM HEXAFERRITE BY PYROLYSIS OF AN AEROSOL. *J. mater. res.* 9, 712-716 (1994). A
180. D-X. Chen, A. Hernando, F. Conde, J. Ramírez, J.M. González Calbet, M. Vallet-Regí. LOWER CRITICAL FIELD AND SURFACE BARRIER IN SINTERED $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. *J. Appl. Phys.* 75, 2578-83 (1994). A
181. M. Medarde, J. Rodríguez Carvajal, M. Vallet-Regí, J. González-Calbet and J. Alonso. CRYSTAL STRUCTURE AND MICROSTRUCTURE OF $\text{Nd}_{1.8}\text{Sr}_{0.2}\text{NiO}_{3.72}$: A K_2NiF_4 - TYPE NICKELATE WITH MONOCLINIC SYMMETRY AND ORDERED OXYGEN VACANCIES. *Phys. Rev. B.* 49, 8591-8599 (1994). A
182. M.J. Sayagués, A. Caneiro, J.M. González-Calbet and M. Vallet-Regí. MICROSTRUCTURAL VARIATIONS AS A FUNCTION OF \square IN $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. *J. Mater. Res.* 9, 1263-1271 (1994). A
183. E. García-González, M. Parras, J.M. González-Calbet, M. Vallet-Regí. A NEW FAMILY $\text{LnBa}_2\text{Fe}_3\text{O}_z$. (III). $\text{Ln} = \text{Gd}$. *J. Solid State Chem.* 110, 142-149 (1994). A
184. M.J. Sayagués, M. Vallet-Regí, A. Caneiro, J.M. González-Calbet. MICROSTRUCTURAL CHARACTERIZATION OF THE LaNiO_{3-y} SYSTEM. *J. Solid State Chem.* 110, 295-304 (1994). A
185. J.M. González-Calbet, M. Parras, J. Alonso, M. Vallet-Regí. PREDICTION OF NOVEL BaMnO_{3-y} ($0 < y < 0.1$) PEROVSKITE RELATED PHASES. *J. Solid State Chem.* 111, 202-207 (1994). A
186. S. Nicolopoulos, A. Corma, C. Corell, J. Pérez-Pariente, M. Vallet-Regí, J.M. González-Calbet. ELECTRON MICRODIFFRACTION AND TEM STUDY OF THE NEW MCM 22 ZEOLITE. *Electron Microscopy 1994. ICME-13*, Editado por B. Jouffrey y C. Colliex. Les Editions de Physique. 823-824 (1994). CL
187. S. Nicolopoulos, M. Vallet-Regí, C. Barba Solana, J.M. González Calbet. FINE STRUCTURE OF HYDROXYAPATITE STUDIED BY MOIRE FRINGE CONTRAST. *Electron Microscopy 1994. ICME-13*, Editado por B. Jouffrey y C. Colliex. Les Editions de Physique. 2B, 909-910 (1994). CL
188. J.M. González Calbet, M. Parras, J. Alonso, M. Vallet-Regí. HREM OF BaMnO_{3-y} ($0 < y \leq 0.17$). *Electron Microscopy 1994. ICME-13*. Editado por B. Jouffrey y C. Colliex. Les Editions de Physique. 2B, 913-914, (1994). CL

189. A. Varela, M. Vallet-Regí, J.M. González-Calbet. ELECTRON MICROSCOPY STUDY OF THE $\text{Pr}_2\text{Sr}_y\text{CuO}_{4-\delta}$ SYSTEM. Electron Microscopy 1994. ICEM-13. Editado por B. Jouffrey y C. Colliex. Les Editions de Physique. 2B, 975-976, (1994). CL
190. J.A. Planell, M. Vallet-Regí, E. Fernández, L.M. Rodríguez, A. Salinas, O. Bermúdez, B. Baraduc, F.J. Gil, F.C.M. Driessens. FRACTURE TOUGHNESS EVALUATION OF SINTERED HYDROXYAPATITE. Bioceramics, Editado por Ö.H. Andersson and A.Yli-Urpo. Butterworth-Heinemann Ltd. 7, 17-22, (1994). CL
191. M.V. Cabañas, J.M. González-Calbet, J. Rodríguez-Carvajal, M. Vallet-Regí. THE SOLID SOLUTION $\text{BaFe}_{12-2x}\text{Co}_x\text{Ti}_x\text{O}_{19}$ ($0 \leq x \leq 6$): CATIONIC DISTRIBUTION BY NEUTRON DIFFRACTION. J. Solid State Chem. 111, 229-237. (1994). A
192. J. Peña, M. Vallet-Regí, J. San Román. DESIGN OF COMPOSITE HYDROGELS WITH SENSITIVITY TO THE CHANGE OF pH. Proceedings of the 11Th European Conference on Biomaterials, 358-361, (1994). CL
193. L.M. Rodríguez-Lorenzo, A.J. Salinas, M. Vallet-Regí, J. San Román. SYNTHESIS AND CHARACTERIZATION OF NEW BIOMATERIALS BASED ON ALUMINA/POLY(L-LACTIC ACID)/POLY(METHYLMETHACRYLATE) COMPOSITES. Proceedings of the 11Th European Conference on Biomaterials, 389-391, (1994). CL
194. M. Vallet-Regí, M.T. Gutiérrez Ríos, M.P. Alonso, M.I. de Frutos, S. Nicolopoulos. HYDROXYAPATITE PARTICLES SYNTHESIZED BY PYROLYSIS OF AN AEROSOL. J. Solid State Chem. 112, 58-64 (1994). A
195. M. Parras, J.M. González-Calbet, J. Alonso, M. Vallet-Regí. MICROSTRUCTURAL CHARACTERIZATION OF BaMnO_{3-y} ($0.08 \leq y \leq 0.12$): EVIDENCE FOR A NEW POLYTYPE (21R). J. Solid State Chem. 113, 78-87 (1994). A
196. A. Varela, M. Vallet-Regí, J.M. González-Calbet. ELECTRON AND/OR HOLE DOPING IN Pr_2CuO_4 . Physica C, 235-240, 811-812 (1994). A
197. J.L. Martínez, J. Alonso, M.T. Fernández-Díaz, J. Rodríguez Carvajal, M. Vallet-Regí, J.M. González-Calbet. MAGNETIC PROPERTIES OF $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4-\delta}$ OXIDES. Physica C, 235-240, 1561-1562 (1994). A
198. L. M. Rodríguez-Lorenzo, A. Salinas, M. Vallet-Regí. SYNTHESIS AND DEGRADATIVE BEHAVIOUR OF BIOMATERIALS BASED ON ALUMINA/PLLA/PMMA COMPOSITES. Research in Surgery (ISSN 0214-5987), 11, (1994).
199. J. Peña, M. Vallet-Regí, J. San Román. PREPARATION AND BEHAVIOUR OF POLY(ACRYLICACID)- TiO_2 COMPOSITES IN A PHYSYLOGAL MEDIUM. Research in Surgery (ISSN 0214-5987), 15, (1994).
200. A. Salinas, L.M. Rodríguez-Lorenzo, C.V. Ragel, M. Vallet-Regí. NEW WAYS TO SYNTHESIZED BIOCERAMIC $\alpha\text{Al}_2\text{O}_3$. Research in Surgery (ISSN 0214-5987), 32, (1994).
201. J. Román, J.L. Martínez, J. San Román and M. Vallet-Regí. GLASS-IONOMER CEMENTS: INTERACTIONS BETWEEN METALIC OXIDES AND ACRYLIC DERIVATES. Research in Surgery (ISSN 0214-5987), 34, (1994).
202. J. C. Doadrio Villarejo, J. M. Rincón, C. Díaz, S. Nicolopoulos and M. Vallet-Regí. BIOGLASS FROM THE $\text{SiO}_2\text{-P}_2\text{O}_5\text{-CaO-MgO}$ SYSTEM: MICROSTRUCTURE CHARACTERIZATION AND MICROANALYSIS. Research in Surgery (ISSN 0214-5987), 36, (1994).
203. M. Vallet-Regí. ¿SE PUEDEN PREPARAR ÓXIDOS METÁLICOS CONTROLANDO SU ESTRUCTURA Y MORFOLOGÍA? Conferencias Plenarias de la 25 Reunión Bienal de la Real Sociedad Española de Química.. Ed. F. Andres Ordax, A. Arrizabalaga, R. Barrio. pag. 499-518 (1995). CL. I.S.B.N. 84-7821-218-3. (1994)
204. M. Vallet-Regí, J. Ramírez, C.V. Ragel, J.M. González Calbet. CONTROL OF CARBON IMPURITIES IN 2212 SUPERCONDUCTING PHASE. Physica C. 230, 407-411 (1994). A
205. J.M. González Calbet, M. Vallet-Regí, M.J. Sayagués, R.D. Sánchez, M.T. Causa. EPR AND MAGNETIZATION OF La_2NiO_4 . J. mater. res. 9, 176-179 (1994). A
206. M. Medarde, J. Rodríguez-Carvajal, M. Vallet-Regí, J. M. González Calbet and M. J. Sayagués. OXYGEN VACANCY ORDERING IN $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4-\square}$ ($0 < x < 0.5$): THE STRUCTURE AND THE MICROSTRUCTURE INVESTIGATED BY NEUTRON DIFFRACTION. Physica C, 235-240, (1994).

207. M. Vallet-Regí. PREPARATIVE STRATEGIES FOR CONTROLLING STRUCTURE AND MORPHOLOGY OF METAL OXIDES. Perspectives in Solid State Chemistry. Ed. K.J. Rao. Narosa Publishing House (India). 37-65. (1995). CL. I.S.B.N.:81-3719-035-6.
208. A. Martínez, J. Peña, M. Labeau, J.M. González-Calbet, M. Vallet-Regí. THE DEPOSITION OF α -Fe₂O₃ BY AEROSOL CHEMICAL VAPOR DEPOSITION. J. Mater. Res. 10, 1307-1311. (1995). A
209. S. Nicolopoulos, J.M. González-Calbet, M.P. Alonso, M.T. Gutiérrez Ríos, M.I. de Frutos, M. Vallet-Regí. CHARACTERIZATION BY TEM OF LOCAL CRYSTALLINE CHANGES DURING IRRADIATION DAMAGE OF HYDROXYAPATITE COMPOUNDS. J. Solid State Chem. 116, 265-274 (1995). A
210. M.V. Cabañas, J.M. González-Calbet, M. Vallet-Regí. SYNTHESIS OF MAGNETIC MATERIALS WITH SMALL PARTICLE SIZE. Ceramics: Charting the Future. Editor: P. Vicenzini. Editorial Techna. Advances in Science and Technology 3B, p. 1221-1228 (1995). ISBN: 88-86538-02-2. CL
211. J. Alonso, M. Vallet-Regí, J.M. González-Calbet. CONTROL OF STRUCTURAL TYPE IN Nd_{2-x}Sr_xNiO_y. Superconductivity and Superconducting Materials Technologies. Editor: P. Vicenzini. Editorial Techna. Advances in Science and Technology 8, p. 79-86. (1995). ISBN: 88-86538-07-3. CL
212. A. Varela, M. Vallet-Regí, J.M. González-Calbet. INFLUENCE OF OXYGEN AND STRONTIUM CONTENT ON THE Pr_{2-y}Sr_yCuO_{4-δ} SYSTEM. J. Solid State Chem. 116.2, 385-391 (1995). A
213. M. Parras, J. Alonso, J.M. González Calbet, M. Vallet-Regí. ORDERING AND DEFECTS IN BaMnO_{3-y} (0.22 ≤ y ≤ 0.40). J. Solid State Chem. 117, 21-29 (1995). A
214. M.Vallet-Regí, J.Alonso, M.González-Calbet.SUPERCONDUCTING PHASE OBTAINED BY MECHANICAL MILLING IN THE Sr-Cu-O SISTEM. Proceedings the 4th European Conference on Advanced Materials and Processes (EUROMAT'95). 249-252 (1995).
215. A.J. Salinas, M. Vallet-Regí, J. San Román, J.M. González-Calbet, S. Piñol, V. Gomis, B. Martínez, X. Obradors. CERAMIC-POLYMER PRECURSOR FOR YBCO SUPERCONDUCTING FIBERS. High Tc Superconductors. Proceedings of the Fourth EuroCeramics, Vol. 6, 271-276 (1995). CL
216. L.M. Rodríguez Lorenzo, A.J. Salinas, M. Vallet-Regí, J. San Román. DEGRADATIVE BEHAVIOUR OF BIOMATERIALS BASED ON ALUMINA/PLLA/PMMA COMPOSITES. Bioceramics. Proceedings of the Fourth Euroceramics, Vol. 8, 61-68 (1995). CL.
217. S. Nicolopoulos, J.M. González Calbet, M. Vallet-Regí, A. Corma, C. Corell, J.M. Guil, J. Pérez-Pariente. DIRECT PHASING IN ELECTRON CRYSTALLOGRAPHY: ABINITIO DETERMINATION OF A NEW MCM-22 ZEOLITE STRUCTURE. J. Am. Chem. Soc. 117, 8947-8956, (1995). A
218. U. Schmatz, G. Delabouglise, M. Labeau, J. Román, M. Vallet-Regí. DETECTION GAZEUSE RESISTIVE ET CAPACITIVE PAR UN ELEMENT SENSIBLE A BASE D'OXYDE D'ETAIN. Ann. Chim. Fr, 20, 445-448 (1995). A
219. A. Malats-Riera, J. Peña, M. Vallet-Regí, M. Vázquez, J.M. González Calbet, A. Hernando, G. Pourroy. CHARACTERIZATION OF NANOCRYSTALLINE COBALT DOPED MAGNETITE PREPARED BY SPRAY PYROLYSIS TECHNIQUE. Nanostructured and Non-Crystalline Materials. Ed. M.Vazquez & A. Hernando. World Scientific. pag. 103-108, 1995. CL. (I.S.B.N. 981-02-2060-X).
220. A. Varela, J.M. González-Calbet, M. Vallet-Regí. CRYSTALLINITY EVOLUTION AS A FUNCTION OF THE THERMAL TREATMENT IN T'-TYPE SUPERCONDUCTORS. Nanostructured and Non-Crystalline Materials. Ed. M.Vazquez & A. Hernando. World Scientific. p. 129-134, 1995. CL. (I.S.B.N. 981-02-2060-X).
221. R.D. Sánchez, G.F. Goya, A. Elzubair, M.T. Causa, J. Alonso, M. Vallet-Regí, J.M. González-Calbet. PARAMAGNETIC CENTERS IN Nd_{2-x}Sr_xNiO_y: AN EPR STUDY. Physica B, 210(2), 171-177, (1995).A
222. M. Vallet-Regí. SÍNTESIS DE MATERIALES INORGÁNICOS. Libro de conferencias de las "II Jornadas sobre Ciencia de Materiales". Sevilla, Universidad de Sevilla. Enero 1995. CL
223. J.M. González-Calbet, M.J. Sayagués, A. Varela, J.M. Alonso, A. Caneiro, M. Vallet-Regí. ORDER DISORDER IN T-, T'- AND T*'- PHASE: SUPERCONDUCTORS AND RELATED MATERIALS. J. Micros. Res. Techniq, 30, 193-207 (1995). R

224. J.L. Martínez, C. Prieto, J. Rodríguez-Carvajal, A. de Andrés, M. Vallet-Regí, J.M. González Calbet. STRUCTURAL AND MAGNETIC PROPERTIES OF Sr₂RuO₄-TYPE OXIDES. *J. Magn. Magn. Mater.* 144, 179-180, (1995). A
225. J. Ramírez, M. Vallet-Regí, S. Nicolopoulos, Y. Matsui, J.M. González-Calbet. HREM STUDY ON THE Sr_{1-x}Ca_xCuO₂ SYSTEM. *Advanced Materials '95. Proceedings of 2nd NIRIM (ISAM'95)*. Ed. Y. Bando, M. Kamo, H. Haneda and T. Aizawa, 141-144, (1995). CL
226. M. Vallet-Regí. PREPARACIÓN DE PARTÍCULAS FINAS Y LÁMINAS DELGADAS POR EL MÉTODO PIROSOL. "Retos para el diseño de nuevos materiales: Composición, propiedades y aplicaciones de sólidos nanoestructurados". ICMSE. Ed. J.P. Espinós, A. Fernández, C. Real, P.J. Sánchez, CL. I.S.B.N.: 84-600-9137-6. 33-49 (1995).
227. M. Labeau, U. Schmatz, G. Delabouglise, J. Román, M. Vallet-Regí, A. Gaskow. CAPACITANCE EFFECTS AND GASEOUS ADSORPTION ON PURE AND DOPED POLYCRYSTALLINE TIN OXIDE. *Sensor Actuat. B-Chem*, 26-27, 49-52, (1995). A
228. M.V. Cabañas, P. Germi, J.M. González Calbet, M. Pernet, M. Vallet-Regí. DETERMINATION OF THE CRYSTALLITE SIZE AND SHAPE IN SUBSTITUTED BARIUM HEXAFERRITE BY X-RAY LINE BROADENING ANALYSIS. *J. Solid State Chem.* 114, 534-538, (1995). A
229. M.V. Cabañas, J.M. González-Calbet, M. Vallet-Regí. Co-Ti SUBSTITUTED HEXAGONAL FERRITES FOR MAGNETIC RECORDING. *J. Solid State Chem.* 115, 347-352, (1995). A
230. D.X. Chen, A. Varela, A. Hernando, J.M. González-Calbet, M. Vallet-Regí. SURFACE BARRIER AND LOWER CRITICAL FIELD OF POWDERED AND Pr_{1.85}Ce_{0.15}CuO_{3.98} SUPERCONDUCTOR. *Phys. Rev. B.* 53(9), 5160-5162 (1996). A
231. L.M. Rodríguez-Lorenzo, A.J. Salinas, M. Vallet-Regí, J. San Román. COMPOSITE BIOMATERIALS BASED ON CERAMIC-POLYMERS I: REINFORCED SYSTEMS BASED ON Al₂O₃/PMMA/PLLA. *J. Biomed. Mater. Res.* 30, 515-522, (1996). A
232. E.García-González, M.Parras, J.M. González-Calbet, M. Vallet-Regí. A HREM STUDY ON La_{1/3}Sr_{2/3}FeO_{3-y}, I: (0 ≤ y ≤ 0.10). *J. Solid State Chem.* 124, 278-286 (1996). A
233. E.García-González, M.Parras, J.M. González-Calbet, M. Vallet-Regí. A HREM STUDY ON La_{1/3}Sr_{2/3}FeO_{3-y}, II: (0.15 ≤ y ≤ 0.33). *J. Solid State Chem.* 125, 125-132 (1996). A
234. M.J. Sayagués, M. Vallet-Regí, J.L. Hutchison, J.M. González Calbet. MODULATED STRUCTURE OF LaNiO_{4+δ} AS A MECHANISM OF OXIGEN EXCESS ACCOMODATION. *J. Solid State Chem.* 125, 133-139 (1996). A
235. R.D. Sánchez, M.T. Causa, A. Caneiro, A. Butera, M. Vallet-Regí, M.J. Sayagués, J. González Calbet, F. García-Sanz, J. Rivas. METAL-INSULATOR TRANSITION IN OXYGEN DEFICIENT LaNiO_{3-x} PEROVSKITES. *Phys. Rev. B.* 54, (23) 16574-578 (1996). A
236. A. Corma, C. Corell, J. Pérez-Pariente, J.M. Guil, R. Guil-López, S. Nicolopoulos, J. González-Calbet, M. Vallet-Regí. ADSORPTION AND CATALYTIC PROPERTIES OF MCM-22: THE INFLUENCE OF ZEOLITE STRUCTURE. *Zeolites*, 16, 7-14 (1996). A
237. M.A. Cambor, C.Corell, A. Corma, M.J. Díaz-Cabañas, S. Nicolopoulos, J.M. González Calbet, M. Vallet-Regí. A NEW MICROPOROUS POLYMORPH OF SILICA ISOMORPHOUS TO ZEOLITE MCM-22. *Chem. Mater.* 8.10, 2415-2417, (1996). A
238. M. Vallet-Regí. BIOCERAMICAS: INERTES Y BIOACTIVAS. *Comunicación a la Rev. R. Acad. Cien. Exact. Fis. Nat.* 90 (4), 269-273. (1996). A
239. A.J. Salinas, A. Serret, M. Vallet-Regí, L.L. Hench. STRUCTURE AND SOLVATION EFFECTS OF PO₄³⁻, HPO₄²⁻ AND H₃PO₄ FROM AM1 AND PM3. *Bioceramics* 10. L. Sedel and C. Rey Editors. Elsevier, Oxford 245-48 (1997). CL. ISBN: 0-08-0426921.
240. M. Vallet-Regí, S. Nicolopoulos, J. Román, J.L. Martínez, J.M. González-Calbet. STRUCTURAL CHARACTERIZATION OF ZrO₂ NANOPARTICLES OBTAINED BY AEROSOL PYROLYSIS. *J. Mater. Chem.* 7(6), 1017-1022. (1997) A

241. S. Granado, V. Ragel, V. Cabañas, J. San Román, M. Vallet-Regí. INFLUENCE OF α - Al_2O_3 MORPHOLOGY AND PARTICLE SIZE ON DRUG RELEASE FROM CERAMIC/POLYMER COMPOSITES. *J. Mater. Chem.* 7 (8), 1581-1585 (1997). A
242. J. Ramírez Castellanos, Y. Matsui, M. Vallet-Regí, J.M. González-Calbet. ROOM AND HIGH PRESSURE SYNTHESIS IN THE Sr-Ca-Cu-O SYSTEM. *Solid State Ionics.* 101-103, 205-211, (1997). A.
243. M. Vallet-Regí, L.M. Rodríguez Lorenzo, C.V.Ragel, A.J. Salinas, J.M. González Calbet. CONTROL OF STRUCTURAL TYPE AND PARTICLE SIZE IN ALUMINA SYNTHESIZED BY THE SPRAY PYROLYSIS METHOD. *Solid State Ionics.* 101-103, 197-203, (1997). A
244. E. Herrero, M.V. Cabañas, M. Vallet-Regí, J.L. Martínez, J.M. González-Calbet. INFLUENCE OF SYNTHESIS CONDITIONS ON THE γ - Fe_2O_3 PROPERTIES. *Solid State Ionics.* 101-103, 213-219 (1997). A.
245. M.V. Cabañas, C.V.Ragel, F. Conde, J.M. González-Calbet, M. Vallet-Regí. LaAlO_3 THIN FILM DEPOSITED ON Si(100) AND MgO(100) SUBSTRATES. *Solid State Ionics.* 101-103, 191-195 (1997).A
246. S. Nicolopoulos, J.M. González Calbet, M. Vallet-Regí. IMAGE PROCESSING AND FINE STRUCTURE OF HYDROXYAPATITE PARTICLES. *Solid State Ionics.* 101-103, 175-182, (1997). A.
247. S. Nicolopoulos, J.M. González-Calbet, M. Vallet-Regí, M.A. Cambor, A. Corma, C. Corell, M.J. Díaz-Cabañas. USE OF ELECTRON MICROSCOPY AND MICRODIFFRACTION FOR ZEOLITE FRAMEWORK COMPARISON. *J. Am. Chem. Soc.* 119 (45) 11000-11005, (1997). A.
248. J.M. González Calbet, J. Alonso, E. Herrero, M. Vallet-Regí. MECHANICAL MILLING AS AN ALTERNATIVE ROUTE TO PRODUCE SUPERCONDUCTING OXIDES. *Solid State Ionics.* 101-103, 119-123, (1997). A
249. J. Peña, A. Martínez, F. Conde, J.M. González Calbet, M. Vallet-Regí. IN SITU GROWTH OF SrTiO_3 THIN FILMS PREPARED BY AAMOCVD FROM STRONTIUM AND TITANIUM OXIDE BISDIPIVALOYLMETHANATES. *Solid State Ionics.* 101-103, 183-190 (1997). A
250. M. Vallet-Regí, L.M. Rodríguez Lorenzo, A.J. Salinas. SYNTHESIS AND CHARACTERIZATION OF CALCIUM DEFICIENT APATITE. *Solid State Ionics,* 101-103, 1279-1285 (1997). A
251. M. Vallet-Regí, M. Gordo, C.V. Ragel, M.V. Cabañas, J. San Román. SYNTHESIS OF CERAMIC/POLYMER/DRUG BIOCOMPOSITES AT ROOM TEMPERATURE. *Solid State Ionics.* 101-103, 887-892 (1997). A
252. J. Ramirez-Castellanos, J. M. Gonzalez-Calbet, M Vallet-Regí and Y. Matsui. STRUCTURAL MODULATIONS IN THE Sr-Ca-Cu-O SYSTEM CHARACTERIZED BY HRTEM. *Electron crystallography. NATO ASI SERIES book on "ELECTRON CRYSTALLOGRAPHY"*. Eds. D. L. Dorset et al. P. 407-410 (1997). CL.
253. A. Hernando, E. Herrero, M. Vázquez, J. Alonso, A. González, G. Rivero, J.M. Rojo, M. Vallet-Regí, J. González Calbet. HIGH TEMPERATURE LARGE DIAMAGNETISM IN BALL MILLED $\text{Sr}_{0.6}\text{Ca}_{0.4}\text{CuO}_2$. *Phys. Rev. B.* 56, 7800-7803. (1997). A.
254. M. Jiménez, J.L. Martínez, E. Herrero, J. Alonso, C. Prieto, A. de Andrés, M. Vallet-Regí, J. González Calbet, M.T. Fernández-Díaz. STRUCTURAL AND MAGNETORESISTANCE STUDY OF $\text{La}_x\text{Mn}_y\text{O}_{3-z}$. *Physica B.* 234-236, 708-709 (1997). A
255. M. Vallet-Regí, F. Conde, S. Nicolopoulos, C.V. Ragel, J.M. González Calbet. SYNTHESIS AND CHARACTERIZATION OF CeO_2 OBTAINED BY SPRAY PYROLYSIS METHOD. *Materials Science Forum,* Ed. D. Fiorani, M. Magini. *Trans. Tech. Publications.* Vols. 235-238, 291-296. Suiza (1997) CL. ISBN: 0-87849-750-1
256. J. Peña, M. Vallet-Regí, J. San Román. TiO_2 -POLYMER COMPOSITES FOR BIOMEDICAL APPLICATIONS. *J. Biomed. Mater. Res.* 35, 129-134, (1997). A
257. S. Piñol, V. Gomis, F.Sandiumenge, N. Vilalta, B. Martínez, X. Obradors, A. J. Salinas, M. Vallet-Regí, J. San Román, J. M. González-Calbet. SHAPING OF $\text{YBa}_2\text{Cu}_3\text{O}_7 - \text{Y}_2\text{BaCuO}_5$ BULK SUPERCONDUCTING COMPOSITES. *J. Eur. Ceram. Soc.* 17, 393-396. (1997) A
258. J. Román, J.C. Fabián, M. Labeau, G. Delabouglise, M. Vallet-Regí. SYNTHESIS, STRUCTURE AND GAS SENSITIVITY PROPERTIES OF SnO_2 -CuO MIXTURE PHASE OBTAINED BY PYROLISIS OF AN AEROSOL. *J. Mater. Res.* 12.2, 560-565, (1997). A

259. A.Varela, M. Vallet-Regí, J.M. González-Calbet, PHASE IDENTIFICATION AND SUPERCONDUCTIVITY TRANSITIONS IN Sr-doped $\text{Pr}_{1.85}\text{Ce}_{0.15}\text{CuO}_{4+\delta}$. *J. Mater. Res.* 12(10), 2526-2532. (1997). A.
260. M. Vallet-Regí. INTRODUCTION TO THE WORLD OF BIOMATERIALS. *Anales de Quím. Inter.* 1 Ed. Supplement 1 to vol.93.1, S6-S14, (1997). A
261. U. Schmatz, F. Weiss, T. von Papen, L. Klippe, O. Stadel, G. Wahl, D. Selbmann, M. Krellmann, L. Hubert-Pfalzgraf, H. Guillon, J. Peña, M. Vallet-Regí. SYNTHESIS OF $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ TAPES FOR HIGH CURRENT APPLICATIONS BY MOCVD, *Inst. Phys. Conf. Ser.* 158, 885-888. (1997) CL.
262. U. Schmatz, F. Weiss, L. Klippe, G. Wahl, D. Selbmann, M. Krellmann, L. Hubert-Pfalzgraf, H. Guillon, J. Peña, M. Vallet-Regí. SYNTHESIS OF $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ TAPES FOR HIGH CURRENT APPLICATIONS BY MOCVD, *Electrochemical Society Proceedings*, M. D. Allendorf and C. Bernard Editors, Paris (Francia). rol. 97-25, 1005-1012. (1997). CL. ISBN: 1-56677-178-1.
263. D. Arcos, M.V. Cabañas, C.V. Ragel, M. Vallet-Regí, J. San Román. IBUPROFEN RELEASE FROM HYDROPHILIC CERAMIC-POLYMER COMPOSITES. *Biomaterials*, 18, 1235-1242 (1997). A
264. M. Jiménez, C. Prieto, A. de Andrés, J.L. Martínez, J.M. Alonso, M. Vallet-Regí, J.M. González Calbet. Ni K-EDGE XANES STUDIES OF HOLE DOPED $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_4$ AND REDUCED $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_y$. *J. Phys. IV Fr.* 7, C2-1203/4 (1997). A
265. M.T. Causa, M. Tovar, R.D. Zysler, M. Vallet-Regí, J.M. González-Calbet and R.D. Sánchez. EPR AND MAGNETIC PROPERTIES OF THE $\text{Ca}_n\text{Fe}_2\text{Mn}_{n-2}\text{O}_{3n-1}$ PEROVSKITE RELATED SERIES. *J. Phys. IV Fr.* 7, C1-355/6 (1997). A
266. G. Sastre, M. L. Cano, A. Corma, H. García, S. Nicolopoulos, J. M. González Calbet and M. Vallet Regí. ON THE INCORPORATION OF BUCKMINSTERFULLERENE C_{60} IN THE SUPERCAGES OF ZEOLITE Y. *J. Phys. Chem. B*, 101(49), 10184-10190 (1997). A
267. J. Ramírez-Castellanos, M. Vallet Regí and J. M. González Calbet. INFLUENCIA DE LA PRESIÓN EN LA MICROESTRUCTURA DE $\text{Sr}_{0.5}\text{Ca}_{0.5}\text{CuO}_2$. *Microscopia electrónica*, 81-82 (1997) A
268. J. Peña, S. Nicolopoulos, J. M. González Calbet, M. Labeau and M. Vallet Regí. MICROESTRUCTURA DE LÁMINAS DELGADAS DE ANATASA. *Microscopia electrónica*, 85-86 (1997). A
269. E. García-González, M. Parras, J. M. González Calbet and M. Vallet Regí. ORDEN CATIONICO EN EL SISTEMA $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_{3-z}$. *Microscopia electrónica*, 131-132 (1997). A
270. S. Nicolopoulos, M. Vallet Regí and J. M. González Calbet. CRISTALOGRAFÍA ELECTRÓNICA DE ZEOLITAS. *Microscopia electrónica*, 135-136 (1997). A
271. F. Balas, J. Pérez-Pariente and M. Vallet-Regí. RELATIONSHIP BETWEEN BIOACTIVITY AND TEXTURAL PARAMETERS IN GLASSES. *Bioceramics*. 11, 125-129, Ed. R. Z, LeGeros and J.P. LeGeros, World Scientific Publishing Co. Pte. Htd. New York (1998) CL. ISBN: 981-02-3701-4
272. M. Vallet-Regí, S. Granado, D. Arcos, M. Gordo, M.V. Cabañas, C.V. Ragel, A.J. Salinas, A.L. Doadrio, J. San Román. PREPARATION, CHARACTERIZATION AND "IN VITRO" RELEASE OF IBUPROFEN FROM $\text{Al}_2\text{O}_3/\text{PLA}/\text{PMMA}$ COMPOSITES. *J. Biomed. Mater. Res.* Vol 39, 423-428 (1998). A
273. J.M. González-Calbet, N. Rangavittal, E. Herrero, J. Alonso and M. Vallet-Regí. VACANCY ORDERING IN THE $\text{La}_{1-x}\text{Ca}_x\text{MnO}_{3-y}$ system. *Electron Microscopy 1998. ICME-14*, 333-334 (1998). A
274. J.M. González-Calbet, S. Nicolopoulos, M. Vallet-Regí. USEFULNESS OF CRYSTALLOGRAPHIC IMAGE PROCESSING TO SOLVE BASIC STRUCTURAL ASPECTS OF ZEOLITES BY TEM. *Electron Microscopy 1998. ICME-14*, 415-416 (1998). A
275. D. Arcos, N. Rangavital, M. Vazquez, M. Vallet-Regí. STRUCTURE AND MAGNETIC PROPERTIES OF NANOCRYSTALLINE SPINEL FERRITES OBTAINED BY HIGH ENERGY BALL MILLING. *Mat. Science Forum*, Trans Tech Publications. Ed, Baró and S. Suriñach. 269-272, 87-92 (1998). CL ISBN: 0-87849-799-4
276. J. Peña, J.M. Gonzalez-Calbet and M. Vallet-Regí. Fe_2O_3 THIN FILMS BY THE SPRAY PYROLYSIS TECHNIQUE. *Mat. Science Forum*, Trans Tech Publications. Ed, Baró and S. Suriñach. 269-272, 313-318 (1998). CL ISBN: 0-87849-799-4

277. E. Herrero, J. Alonso, M. Vallet-Regí, J. M. Gonzalez-Calbet and A. Hernando. PROPERTIES INDUCED BY MECHANICAL MILLING IN THE SYSTEM $\text{Sr}_{1-x}\text{Ca}_x\text{CuO}_2$. Mat. Science Forum. Trans Tech Publications. Ed. Baró and S. Suriñach, 269-272, 1019-1024 (1998). CL ISBN: 0-87849-799-4
278. S. Nicolopoulos, J.M. González-Calbet, M. Vallet-Regí, M.A. Cambor, A. Corma, C. Corell, M.J. Díaz-Cabañas. FRAMEWORK COMPARISON OF ZEOLITES SSZ-25 and MCM-22 BY ELECTRON MICROSCOPY AND CRYSTALLOGRAPHIC IMAGE PROCESSING. Proceedings of the International Congress for Electron Microscopy 96. 2, 4-55 Ed. By CESM, Brussels (1998). A
279. S. Nicolopoulos, M. Vallet-Regí, J. Román, J.L. Martínez, J.M. González Calbet. STRUCTURAL CHARACTERISTICS AND HREM STUDY OF FINE PYROSOL SYNTHESIZED ZIRCONIA. Proceedings of the International Congress for Electron Microscopy Ed. By CESM, Brussels. 96. 2, 712-723 (1998). A.
280. D. Arcos, R. Valenzuela, M. Vázquez, M. Vallet-Regí. CHEMICAL HOMOGENEITY OF NANOCRYSTALLINE Zn-Mn SPINEL FERRITES OBTAINED BY HIGH-ENERGY BALL MILLING. J. Solid State Chem. 141,10-16 (1998). A.
281. A. Serret, A. J. Salinas and M. Vallet-Regí. MOLECULAR ORBITAL MODELS OF SPECIES INVOLVED IN THE BONE BONDING OF BIOACTIVE GLASSES AND GLASS-CERAMIC Non-Crystalline and Nanostructured Materials. Ed. J. Rivas & M.A. López-Quintela, 61-66 (1998). CL. ISBN: 981-02-3282-9
282. M.Vallet-Regí, F. Balas, M. Gil, E. Nogueroles, A. Romero, J.Román, A. J. Salinas and C. V. Ragel. BONE-LIKE APATITE LAYER FORMATION ON SOL-GEL GLASSES. Non-Crystalline and Nanostructured Materials. Ed. J. Rivas & M.A. López-Quintela, 55-60 (1998). CL. ISBN: 981-02-3282-9
283. J. Peña, A. Martínez, J.M. González-Calbet, M. Vallet-Regí. PREPARATION AND CHARACTERIZATION OF THIN FILMS OBTAINED BY AAMOCVD FROM BARIUM AND STRONTIUM β -DIKETONATES. Non-Crystalline and Nanostructured Materials. Ed. J. Rivas & M.A. López-Quintela, 96-101 (1998). CL. ISBN: 981-02-3282-9
284. J. Peña, M. Vallet-Regí, M.V. Cabañas, C.V. Ragel, A. Martínez, F. Conde, E. Herrero, N. Rangavittal J.M. González-Calbet. SYNTHESIS OF PEROVSKITE BUFFER LAYERS ($\text{SrTiO}_3, \text{LaAlO}_3$) BY LOW AND ATMOSPHERIC PRESSURE SPRAY PYROLYSIS TECHNIQUES. Non-Crystalline and Nanostructured Materials. Ed. J. Rivas & M.A. López-Quintela, 67-72 (1998). CL. ISBN: 981-02-3282-9
285. M. Vallet-Regí, I. Izquierdo, A. Martínez, J. Peña. "IN VITRO" APATITE FORMATION ON TITANIA GEL SURFACES. Non-Crystalline and Nanostructured Materials. Ed. J. Rivas & M.A. López-Quintela, 90-95 (1998). CL. ISBN: 981-02-3282-9
286. A. Hernando, E. Herrero, M. Vázquez, J. Alonso, J. M. Rojo, A. González, G. Rivero, M. Vallet-Regí, J.M. González-Calbet. GIANT DIAMAGNETISM INDUCED BY BALL MILLED. Non-Crystalline and Nanostructured Materials. Ed. J. Rivas & M.A. López-Quintela, 116-124(1998). CL. ISBN: 981-02-3282-9
287. L. M. Rodríguez-Lorenzo, J.M.F. Ferreira, M. Vallet-Regí. PROCESSING OF POROUS HYDROXYAPATITE BY STARCH CONSOLIDATION. Bioceramics. 11, 89-92, Ed. R. Z, LeGeros and J.P. LeGeros, World Scientific Publishing Co. Pte. Htd. New York (1998) CL. ISBN: 981-02-3701-4
288. A. J. Salinas, J. Román, M. Vallet-Regí, P. Fernández and J. Piqueras. CATHODOLUMINESCENCE STUDY OF THE APATITE-LIKE LAYER ON BIOACTIVE SOL-GEL GLASSES. Bioceramics. 11, 707-710, Ed. R. Z, LeGeros and J.P. LeGeros, World Scientific Publishing Co. Pte. Htd. New York (1998) CL. ISBN: 981-02-3701-4
289. I. Izquierdo-Barba, A. J. Salinas and M. Vallet-Regí. IN VITRO CALCIUM PHOSPHATE LAYER FORMATION ON SOL-GEL GLASSES OF THE SYSTEM $\text{CaO} \cdot \text{SiO}_2$. J. Biomed. Mater. Res. 47, 243-250. (1999). A.
290. J.L. Martínez, A. de Andrés, M. García-Hernández, C. Prieto, J.M. Alonso, E. Herrero, J. González-Calbet, M. Vallet-Regí. PHASE DIAGRAM ON $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. J. Magn. Magn. Mater. 196-197, 520-521, (1999). A.
291. J. M. González-Calbet, E. Herrero, N. Rangavittal, J. M. Alonso, J. L. Martínez and M. Vallet-Regí. ORDERING OF OXYGEN VACANCIES AND MAGNETIC PROPERTIES IN $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_{3-\square}$ ($0 \leq \square \leq 0.5$). J. Solid State Chem. 148, 158-168. (1999). A.

292. E.Herrero, M.V.Cabañas, J. Alonso, F. Conde, J.M. González-Calbet and M. Vallet-Regí. INFLUENCE OF THE DEPOSITION PARAMETERS ON La-A-Mn-O (A=Ca, Sr) FILMS GROWN BY LOW PRESSURE AEROSOL PYROLYSIS. *Chem. Mater.* 11, 3521-3527. (1999). A.
293. D. Arcos and M. Vallet-Regí. IMPROVED MECHANICAL PROPERTIES IN Nb₂O₅/V₂O₅ DOPED SPINEL FERRITES. *J. Solid State Chem.* 148, 376-379. (1999). A.
294. D. Arcos, M. Vázquez, R. Valenzuela and M. Vallet-Regí, GRAIN BOUNDARY IMPEDANCE OF DOPED Mn-Zn FERRITES. *J. Mater. Res.* 14, 3, 861 (1999). A.
295. M.V. Cabañas, G. Delabouglise, M. Labeau and M. Vallet-Regí. APPLICATION OF A MODIFIED ULTRASONIC AEROSOL DEVICE TO THE SYNTHESIS OF SnO₂ AND Pt/SnO₂ FOR GAS SENSORS. *J. Solid State Chem.* 144, 86-90 (1999). A
296. M. Vallet-Regí, A.M. Romero, V. Ragel, R. Z. Legeros. XRD, SEM-EDS AND FTIR STUDIES OF IN VITRO GROWTH OF AN APATITE-LIKE LAYER ON SOL-GEL GLASSES. *J. Biomed. Mater. Res.* 44,416-421 (1999) A.
297. M. Vallet-Regí, I. Izquierdo-Barba and A. J. Salinas. INFLUENCE OF P₂O₅ ON THE CRYSTALLINITY OF THE APATITE FORMED IN VITRO ON THE SURFACE OF BIOACTIVE GLASSES. *J. Biomed. Mater. Res.* 46, 560-565. (1999). A.
298. D. Arcos, R. Valenzuela, M. Vázquez and M. Vallet-Regí. FREQUENCY BEHAVIOUR OF Zn-Mn FERRITES NANOPARTICLES OBTAINED BY HIGH ENERGY BALL MILLING. *J. Magn. Magn. Mater.* 203, 319-321. (1999). A.
299. J. Pérez-Pariente, I. Izquierdo-Barba, J.L. García-Fierro, A.J. Salinas and M. Vallet-Regí. STRUCTURE AND SURFACE PROPERTIES OF THE APATITE GROWTH ON GEL GLASSES. *Bioceramics*. Vol 12 pp 173-176, Ed. H. Ohgushi, G. W. Gastings and T. Yoshihawa, World Scientific Publishing Co. Pte. Ltd. Nara, Japan (1999) CL.
300. J. Peña, R.P. del Real, L.M. Rodríguez-Lorenzo and M. Vallet-Regí. MECHANOCHEMISTRY: A NEW ROUTE FOR THE PREPARATION OF CARBONATE APATITE. *Bioceramics*. Vol 12 pp 353-356, Ed. H. Ohgushi, G. W. Gastings and T. Yoshihawa, World Scientific Publishing Co. Pte. Ltd. Nara, Japan (1999) CL.
301. M. Vallet-Regí, A. J. Salinas, J. Román and M. Gil. EFFECT OF MAGNESIUM CONTENT ON THE IN VITRO BIOACTIVITY OF CaO.MgO.SiO₂.P₂O₅ SOL-GEL GLASSES. *J. Mater. Chem.* 9, 515-518. (1999). A.
302. J. Pérez-Pariente, F. Balas, J. Román, A. J. Salinas and M. Vallet-Regí. INFLUENCE OF COMPOSITION AND SURFACE CHARACTERISTICS ON THE IN VITRO BIOACTIVITY OF SiO₂-CaO-P₂O₅-MgO SOL-GEL GLASSES. *J. Biomed. Mater. Res.* 47,170-175. (1999). A.
303. R.P. del Real, S. Padilla, M. Vallet-Regí, GENTAMICIN RELEASE FROM OHAp/PEMA/PMMA COMPOSITES. *J. Biomed. Mater. Res.* 52. 1-7. (2000). A.
304. L.M. Rodríguez-Lorenzo, M. Vallet-Regí. CONTROLLED CRYSTALLIZATION OF CALCIUM PHOSPHATE APATITES. *Chem. Mater.* 12 (8). 2460-2465. (2000). A.
305. A. Martínez, I. Izquierdo-Barba and M. Vallet-Regí. BIOACTIVITY OF A CaO-SiO₂ BINARY GLASSES SYSTEM. *Chem. Mater.* 12. 3080-3088. (2000). A.
306. J. Alonso, E. Herrero, J. M. González-Calbet, M. Vallet-Regí, J.L. Martinez, J.M. Rojo and A. Hernando. Mn⁴⁺ CATIONS LOCALIZATION IN La-RICH La_{1-x}Ca_xMnO_y MANGANITES. *Phys. Rev. B.* 62(17), 11328-11331. (2000). A.
307. M. Vallet-Regí, J. Pérez-Pariente, I. Izquierdo-Barba and A.J. Salinas. COMPOSITION VARIATIONS IN THE CALCIUM PHOSPHATE LAYER GROWTH ON GEL GLASSES SOAKED IN A SIMULATED BODY FLUID. *Chem. Mater.* (12) 3770-3775 (2000). A.
308. A. Serret, M.V. Cabañas and M. Vallet-Regí. STABILISATION OF CALCIUM OXYAPATITES WITH LANTHANUM(III)-CREATED ANIONIC VACANCIES. *Chem. Mater.* 12, 3836-3841. (2000). A.
309. J. J. Wells, N. Malde, L. Cohen, M. Vallet-Regí and J. L. MacManus-Driscoll. IN-PLANE ALIGNED YBCO THICK FILMS ON SINGLE CRYSTAL OXIDE SUBSTRATES BY ULTRASONIC SPRAY PYROLYSIS. *Inst. Phys. Conf. Ser.* IOP Publishing Ltd. 167, 319-322 (2000) CL

310. A.J. Salinas, J. Román, M. Vallet-Regí, J.M. Oliveira, R.N. Correia, M.H. Fernandes. *IN VITRO* BIOACTIVITY OF GLASS AND GLASS-CERAMICS OF THE $3\text{CaO}\cdot\text{P}_2\text{O}_5\text{-CaO}\cdot\text{SiO}_2\text{-CaO}\cdot\text{MgO}\cdot 2\text{SiO}_2$ SYSTEM. *Biomaterials*. 21, 251-257 (2000). A.
311. J. Pérez Pariente, F. Balas, M. Vallet-Regí. SURFACE AND CHEMICAL STUDY OF $\text{SiO}_2\text{P}_2\text{O}_5\text{CaO}(\text{MgO})$ BIOACTIVE GLASSES. *Chem. Mater.* 12, 750-755 (2000). A.
312. M. Vallet-Regí, A. Rámila. NEW BIOACTIVE GLASS AND CHANGES IN POROSITY DURING THE GROWTH OF A CARBONATE HYDROXYAPATITE LAYER ON GLASS SURFACE. *Chem. Mater.* 12, 961-965 (2000). A.
313. E. Herrero, J. Alonso, J.L. Martínez, M. Vallet-Regí, J.M. González-Calbet. INFLUENCE OF THE OXIDATION ON THE MAGNETIC AND TRANSPORT PROPERTIES IN THE $(\text{La}_{1-x}\text{Ca}_x)_z\text{Mn}_z\text{O}_y$ ($0 < x < 0.3$) SYSTEM. *Chem. Mater.* 12, 1060-1066. (2000). A
314. M. Vallet-Regí, D. Arcos and J. Pérez-Pariente. EVOLUTION OF POROSITY DURING IN VITRO HYDROXYCARBONATE APATITE GROWTH IN SOL-GEL GLASSES. *J. Biomed. Mater. Res.* 51. 23-28 (2000). A.
315. I. Izquierdo-Barba, A.J. Salinas, M. Vallet-Regí. EFFECT OF CONTINUOUS SOLUTION EXCHANGE ON THE IN VITRO REACTIVITY OF A CaO-SiO_2 SOL-GEL GLASS. *J. Biomed. Mater. Res.* 51, 191-199 (2000), A.
316. N. Rangavittal, A.R. Landa-Cánovas, J.M. González-Calbet and M. Vallet-Regí. TEM ON HYDROXYAPATITE AND β -TRICALCIUM PHOSPHATE. *Proceedings 12th European Congress on Electron Microscopy. EUREM 12, 1, 615-616 (2000) (ISBN 80-238-5499-2).*
317. C.V. Ragel and M. Vallet-Regí. IN VITRO BIOACTIVITY AND GENTAMICIN RELEASE FROM GLASS-POLYMER-ANTIBIOTIC COMPOSITES. *J. Biomed. Mater. Res.* 51. 424-429 (2000). A.
318. N. Rangavittal, A.R. Landa-Cánovas, J.M. González Calbet, M. Vallet-Regí. STRUCTURAL STUDY AND STABILITY OF HYDROXY-APATITE AND β -TRICALCIUM PHOSPHATE: TWO IMPORTANT BIOCERAMICS, *J. Biomed. Mater. Res.* 51. 660-661 (2000). A.
319. M. Vallet-Regí, N. Rangavittal, A. Landa and J. M. González Calbet. HREM OF HYDROXYAPATITE AND β -TRICALCIUM POSPHATE. *Electron microscopy, I, 615-616 (2000).* A
320. A. J. Salinas, M. Vallet-Regí, I. Izquierdo-Barba. BIOMIMETIC APATITE DEPOSITION ON CALCIUM SILICATE GEL GLASSES. *J. Sol-gel Sci. technol.* 21, 13-25. (2001). A.
321. L.M. Rodríguez, M. Vallet-Regí, J.M.F. Ferreira. COLLOIDAL PROCESSING OF HYDROXYAPATITE. *Biomaterials*. 22, 1847-1852. (2001). A.
322. M. Vallet-Regí, E. Herrero, J. Alonso, A. Hernando, J.M. González-Calbet. VARIATION OF THE MAGNETIC PROPERTIES OF $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_y$ AS A FUNCTION OF THE SYNTHETIC ROUTE. *Solid State Ionics*. 141-142, 427-432 (2001). A.
323. M. Marchal, E. Cordoncillo, P. Escribano, M. Vallet-Regí, J.B. Carda. STABILIZATION OF MONOCLINIC SrAl_2O_4 THROUGH THE FORMATION OF SOLID SOLUTIONS OF THE TYPE $\text{SrAl}_{2-x}\text{B}_x\text{O}_4$. *Key Engineering Materials*. 206-213, 1207-1210 (2001). A.
324. J. Alonso, A. Arroyo, J. M. González-Calbet, M. Vallet-Regí, L. Martinez, J.M. Rojo and A. Hernando. ROLE OF CALCIUM IONS AS DOPED-HOLE ATTRACTORS IN DESTABILIZING CHARGE-ORDERED STATES IN Mn PEROVSKITES. *Phys. Rev. B*, (17) 64, 172410, (2001)
325. M. Vallet-Regí, A.I. Martín, A.J. Salinas, N. Olmo, J. Turnay and M.A. Lizarbe. IN VITRO BEHAVIOUR OF BIOACTIVE SOL-GEL GLASSES. *Biol. Cell.* (93), 328-329 (2001). A.
326. M. Cifuentes, M.V. Cabañas and M. Vallet-Regí. CONTROL OF CRYSTALLINITY AND COMPOSITION IN CALCIUM PHOSPHATE COATINGS. *Key Engineering Materials. Trans. Tech. Publications, Ltd. Switzerland. 192-195. 135-138. (2001).CL. ISBN 0-87849-866-4*
327. P.A.A.P. Marques, M.C.F. Magalhaes, R.N. Correia and M. Vallet-Regí. SYNTHESIS AND CHARACTERISATION OF SILICON-SUBSTITUTED HYDROXYAPATITE. *Key Engineering Materials. Trans. Tech. Publications, Ltd. Switzerland. 192-195. 247-250. (2001). CL. ISBN 0-87849-866-4*

328. M. Vallet-Regí. CERAMICS FOR MEDICAL APPLICATIONS. Perspective Article. J. Chem. Soc. Dalton Trans. 97-108. (portada de la revista) (2001). A.
329. L.M. Rodríguez-Lorenzo, M. Vallet-Regí and J.M.F. Ferreira. FABRICATION OF HYDROXYAPATITE BODIES BY UNIAXIAL PRESSING FROM A PRECIPITATED POWDER. Biomaterials, 22, 583-588. (2001). A.
330. D. Arcos, V. Ragel and M. Vallet-Regí. BIOACTIVITY IN GLASS/PMMA COMPOSITES USED AS DRUG DELIVERY SYSTEM. Biomaterials. 22, 701-708. (2001). A.
331. M. Vallet-Regí, A. Rámila, R. P. del Real, J. Perez-Pariente. A NEW PROPERTY OF MCM-41: DRUG DELIVERY SYSTEM. Chem. Mater. 13, 308-311. (2001). A
332. J. Román, A.J. Salinas, M. Vallet-Regí, J.M. Oliveira, R.N. Correia and M.H. Fernandes. ROLE OF ACID ATTACK IN THE *VITRO* BIOACTIVITY OF A GLASS-CERAMIC OF THE $3\text{CaO}\cdot\text{P}_2\text{O}_5\text{-CaO}\cdot\text{SiO}_2\text{-CaO}\cdot\text{MgO}\cdot 2\text{SiO}_2$ SYSTEM. Biomaterials. 22, 2013-2019. (2001). A.
333. F. Balas, D. Arcos, J. Pérez-Pariente, M. Vallet-Regí. TEXTURAL PROPERTIES OF $\text{SiO}_2\cdot\text{CaO}\cdot\text{P}_2\text{O}_5$ GLASSES PREPARED BY THE SOL-GEL METHOD. J. Mater. Res. 16 (5). 1345-1348 (2001). A.
334. A. Rámila, M. Vallet-Regí. STATIC AND DINAMIC IN VITRO STUDY OF A SOL-GEL GLASS BIOACTIVITY. Biomaterials. 22/16, 2301-2306. (2001). A.
335. R.P del Real, J.G.C. Wolke, M. Vallet-Regí, J.A. Jansen. A NEW METHOD TO PRODUCE MACROPORES IN CALCIUM PHOSPHATE CEMENTS. Biomaterials. 23, 3673-3680 (2002). A.
336. A.J. Salinas, A.I. Martín, M. Vallet-Regí. BIOACTIVITY OF THREE $\text{CaO}\text{-P}_2\text{O}_5\text{-SiO}_2$ SOL-GEL GLASSES. J. Biomed. Mater. Res. 61 (4), 524-532. (2002) A.
337. M. Abate, G. Zampieri, F. Prado, A. Caneiro, JM. González-Calbet, M. Vallet-Regí. ELECTRONIC STRUCTURE AND METAL-INSULATOR TRANSITION IN $\text{LaNiO}_3\text{-DELTA}$. Phys. Rev. B. (15) 65. 155101-155106 (2002).
338. L.M. Rodríguez, M. Vallet-Regí, J.M.F. Ferreira. FABRICATION OF POROUS HYDROXYAPATITE BODIES BY A NEW DIRECT CONSOLIDATION METHOD: STARCH CONSOLIDATION. J. Biomed. Mater. Res. (60), 232-240. (2002) A.
339. A. Rámila, S. Padilla, B. Muñoz and M. Vallet-Regí. A NEW HYDROXYAPATITE/GLASS BIPHASIC MATERIAL: IN VITRO BIOACTIVITY. Chem. Mater. (14), 2439-2443. (2002). A.
340. M.V. Cabañas, L.M. Rodríguez-Lorenzo, M. Vallet-Regí. SETTING BEHAVIOR AND IN VITRO BIOACTIVITY OF HYDROXYAPATITE/CALCIUM SULFATES. Chem. Mater. 14, 3550-3555. (2002). A.
341. S. Padilla, R.P. del Real and M. Vallet-Regí. IN VITRO RELEASE OF GENTAMICIN FROM OHAP/PEMA/PMMA SAMPLES. J. Control. Release. 83, 343-352. (2002). A.
342. B. Julián, H. Beltrán, E. Cordoncillo, P. Escribano, J.V. Folgado, M. Vallet-Regí and R. P del Real. A STUDY OF THE METHOD OF SYNTHESIS AND CHROMATIC PROPERTIES OF THE Cr-SnO_2 PIGMENT. Eur. J. Inorg. Chem. 2694-2700 (2002). A.
343. M.L. Ruiz-González, J.M. González-Calbet, M. Vallet-Regí, E. Cordoncillo, P. Escribano, J. B. Carda and M. Marchal. PLANAR DEFECTS IN A PRECURSOR FOR PHOSPHOR MATERIALS: $\text{SrAl}_{1.7}\text{B}_{0.3}\text{O}_4$. J. Mater. Chem.. 12, 1128-1131 (2002). A.
344. R.P. del Real, D. Arcos and M. Vallet-Regí. IMPLANTABLE MAGNETIC GLASS-CERAMIC BASED ON $(\text{Fe}, \text{Ca})\text{SiO}_3$ SOLID SOLUTIONS. Chem. Mater. (14), 64-70 (2002). A.
345. C.V. Ragel, M. Vallet-Regí and L.M. Rodríguez-Lorenzo. PREPARATION AND IN VITRO BIOACTIVITY OF HYDROXYAPATITE/SOLGEL-GLASS BIPHASIC MATERIAL. Biomaterials. 23, 1865-1872, (2002). A
346. L.M. Rodríguez, M. Vallet-Regí, J.M.F. Ferreira, M.P. Ginebra, C. Aparicio and J.A. Planell. HYDROXYAPATITE CERAMIC BODIES WITH TAILORED MECHANICAL PROPERTIES FOR DIFFERENT APPLICATIONS. J. Biomed. Mater. Res. 60, 159-166 (2002). A.

347. D. Arcos, R.P. del Real and M. Vallet-Regí. A NOVEL BIOACTIVE AND MAGNETIC BIPHASIC MATERIAL. *Biomaterials*. 23, 2151-2158 (2002). A.
348. A. Rámila, F. Balas, M. Vallet-Regí. SYNTHESIS ROUTES FOR BIOACTIVE SOL-GEL GLASSES: ALKOXIDES VS. NITRATES. *Chem. Mater.* 14(2), 542-548 (2002). A.
349. S. Padilla, J. Román and M. Vallet-Regí. SYNTHESIS OF POROUS HYDROXIAPATITES BY COMBINATION OF GELCASTING AND FOAMS BURN OUT METHODS. *J. Mater. Sci. Mater Med.* 13, 1193-1197. (2002) A.
350. D. Arcos, D.C. Greenspan and M. Vallet-Regí. INFLUENCE OF THE STABILISATION TEMPERATURE ON TEXTURAL, STRUCTURAL FEATURES AND ION RELEASE IN $\text{SiO}_2\text{-CaO-P}_2\text{O}_5$ SOL-GEL GLASSES. *Chem. Mater.* 14, 1515-1522 (2002). A.
351. L. Meseguer-Olmo, M.J. Ros-Nicolás, M. Clavel-Sainz, V. Vicente-Ortega, M. Alcaraz Baños, A. Lax-Pérez, D. Arcos, C.V. Ragel and M. Vallet-Regí. BIOCOMPATIBILITY AND IN VIVO GENTAMICIN RELEASE FROM BIOACTIVE SOL-GEL GLASS IMPLANTS. *J. Biomed. Mater. Res.* 61, 458-465. (2002). A.
352. J. Ramírez-Castellanos, J. M. González Calbet and M. Vallet-Regí. HRTEM CHARACTERIZATION OF HIGH J_c YBCO THICK FILMS GROWN BY LPE. Proceedings of the International Congress for Electron Microscopy. ICEM 15, 903-904 (2002). A
353. J. Roman, S. Padilla and M. Vallet-Regí. SOL-GEL GLASSES AS PRECURSORS OF BIOACTIVE GLASS-CERAMICS. *Chem. mater.* 15, 798-806. (2003) A.
354. M.V. Cabañas and M. Vallet-Regí. CALCIUM PHOSPHATE COATINGS DEPOSITED BY AEROSOL CHEMICAL VAPOUR DEPOSITON. *J. Mater. Chem.* 13, 1104-1107. (2003) A.
355. I. Izquierdo-Barba, A. Asenjo, L. Esquivias and M. Vallet-Regí. $\text{SiO}_2\text{-CaO}$ VITREOUS FILMS DEPOSITED ONTO Ti6Al4V SUBSTRATES. *Eur. J. Inorg. Chem.* 1608-1613. (2003). A.
356. A. Berenov, N. Malde, Y. Bugoslavsky, L.F. Cohen, S.J. Foltyn, P. Dowden, J. Ramirez-Castellanos, J.M. Gonzalez-Calbet, M. Vallet-Regí, J.L. MacManus-Driscoll. MICROSTRUCTURAL CHARACTERIZATION OF YBCO THICK FILMS GROWN AT VERY HIGH RATES AND HIGH TEMPERATURES BY PLD TECHNIQUE. *J. Mater. Res.* 18, (4) 956-964. (2003). A.
357. N. Olmo, A.I. Martín, A.J. Salinas, J. Turnay, M. Vallet-Regí, M.A. Lizarbe. BIOACTIVE SOL-GEL GLASSES WITH AND WITHOUT A HYDROXYCARBONATE APATITE LAYER AS SUBSTRATES FOR OSTEOBLAST CELL ADHESION AND PROLIFERATION. *Biomaterials*. 24. 3383-3393. (2003). A.
358. S. Ladrón de Guevara, C.V. Ragel, M. Vallet-Regí. BIOACTIVE GLASS-POLYMER MATERIALS FOR CONTROLLED RELEASE OF IBUPROFEN. *Biomaterials*. 24 (22) 4037-4043. (2003). A.
359. J. Alonso, A. Arroyo, J.M. González-Calbet, A. Hernando, J.M. Rojo and M. Vallet-Regí. A HOLE-ATTRACTOR MODEL: TAILORING MANGANESE-RELATED PEROVSKITES. *Chem Mater.* 15(15) 2864-2866. (2003) A.
360. I. Izquierdo-Barba, J.M. Rojo, E. Blanco, M. Vallet-Regí, L. Esquivias. THE ROLE OF PRECURSOR CONCENTRATION ON THE CHARACTERISTICS OF $\text{SiO}_2\text{-CaO}$ FILMS. *J. Sol-gel Sci. technol.* 26, 1179-1182. (2003) A.
361. J. Peña, J. Pérez-Pariente, M. Vallet-Regí. TEXTURAL PROPERTIES OF NANOCRYSTALLINE TIN OXIDE OBTAINED BY SPRAY PYROLYSIS. *J. Mater. Chem.* 13, 2290-2296. (2003) A.
362. M. Vallet-Regí, A. Rámila, S. Padilla, B. Muñoz. BIOACTIVE GLASSES AS ACCELERATORS OF THE APATITES BIOACTIVITY. *J. Biomed. Mater. Res.* 66, 580-585 (2003) A.
363. F. Balas, J. Pérez-Pariente, M. Vallet-Regí. IN VITRO BIOACTIVITY OF SILICON-SUBSTITUTED HYDROXYAPATITES. *J. Biomed. Mater. Res.* 66A, 364-375 (2003) A.
364. J. Sánchez-Benítez, A. De Andrés, M. Marchal, E. Cordoncillo, M. Vallet-Regí and P. Escribano. OPTICAL STUDY OF $\text{SrAl}_{1.7}\text{B}_{0.3}\text{O}_4\text{:Eu}$, R ($R=\text{Nd, Dy}$) PIGMENTS WITH LONG-LASTING PHOSPHORESCENCE FOR INDUSTRIAL USES. *J. Solid State Chem.* 171, 273-277 (2003). A.

365. D. Arcos, D.C. Greenspan and M. Vallet-Regí. A NEW QUANTITATIVE METHOD TO EVALUATE THE IN VITRO BIOACTIVITY OF MELT AND SOL-GEL DERIVED SILICATE GLASSES. *J. Biomed. Mater. Res.* 65A/3. 344-351. (2003). A.
366. F. Babonneau, L. Camus, N. Steunou, A. Ramila and M. Vallet-Regí. ENCAPSULATION OF IBUPROFEN IN MESOPOROUS SILICA: SOLID STATE NMR CHARACTERIZATION. *Mater. Res. Soc.* 775. 3261-3266. (2003). A.
367. L. Meseguer-Olmo, M.J. Ros-Nicolás, M. Clavel-Sainz, A. Martínez-Marín, V. Vicente-Ortega, M. Alcaraz Baños, A. Lax-Pérez, D. Arcos, C.V. Ragel and M. Vallet-Regí. BIOGLASS CERAMIC AS BIODEGRADABLE VECTOR OF GENTAMYCIN RELEASE. EXPERIMENTAL STUDY IN VIVO. *Mapfre Medicia.* 14. 249-257. (2003). A.
368. B. Sampedro, P. Crespo, A. Hernando, R. Litrán, J.C. Sánchez López, C. López Cartes, A. Fernández, J. Ramírez, J. González Calbet and M. Vallet-Regí. FERROMAGNETISM IN FCC TWINNED 2.4 NM SIZE Pd NANOPARTICLES. *Phys. Rev. Lett.* 91(23) 237203(4) (2003). A
369. D. Arcos, J. Peña and M. Vallet-Regí. INFLUENCE OF A SiO₂-CaO-P₂O₅ SOL-GEL ON THE BIOACTIVITY AND CONTROLLED RELEASE OF A CERAMIC/POLYMER/ANTIBIOTIC MIXED MATERIALS. *Chem Mater.* 15(21) 4132-4138. (2003). A.
370. M. Vallet-Regí, I. Izquierdo-Barba and F.J. Gil. LOCALIZED CORROSION OF 316L STAINLESS STEEL WITH SiO₂-CaO FILMS OBTAINED BY MEANS OF SOL-GEL TREATMENT. *J. Biomed. Mater. Res.* 67A. 674-678 (2003). A.
371. M. Marchal, M. Vallet-Regí, F. Conde, P. Escribano, J.B. Carda, E. Cordoncillo, J Sánchez, A.de Andrés. LONG-LASTING PHOSPHORESCENT PIGMENTS OF THE TYPE SrAl₂O₄: Eu²⁺, R³⁺ (R=Dy, Nd) SYNTHESIZED BY THE SOL-GEL METHOD. *J. Sol-gel Sci. technol.* 26, 989-992 (2003). A.
372. A.Rámila, R.P. del Real, R. Marcos, P. Horcajada, M. Vallet-Regí. DRUG RELEASE AND IN VITRO ASSAYS OF BIOACTIVE POLYMER/GLASS MIXTURES. *J. Sol-gel Sci. technol.* 26, 1195-1198. (2003) A.
373. A.Rámila, B. Muñoz, J. Pérez-Pariente, M. Vallet-Regí. MESOPOROUS MCM-41 AS DRUG HOST SYSTEM. *J. Sol-gel Sci. technol.* 26, 1199-1202. (2003). A.
374. B. Muñoz, A. Rámila, J. Pérez-Pariente, I. Díaz and M. Vallet-Regí. MCM-41 ORGANIC MODIFICATION AS DRUG DELIVERY RATE REGULATOR. *Chem. Mater.* 15, 500-503. (2003). A.
375. D. Arcos, R.P. del Real and M. Vallet-Regí. BIPHASIC MATERIALS FOR BONE GRAFTING AND HYPERTHERMIA TREATMENT OF CANCER. *J. Biomed. Mater. Res.* 65A, 71-78. (2003.) A.
376. M. Vallet-Regí, C.V. Ragel, A.J. Salinas. GLASSES WITH MEDICAL APPLICATIONS, *Eur. J. Inor. Chem.* (6) 1029-1042. (2003) A. Microreview.
377. J. Peña, M. Vallet-Regí. HYDROXYAPATITE TRICALCIUM PHOSPHATE AND BIPHASIC MATERIALS PREPARED BY LIQUID MIX TECHNIQUE. *J. Eur. Ceram. Soc.* 23, 10. 1687-1696. (2003) A.
378. R.P. del Real, E. Ooms, J.G.G. Wolke, M. Vallet-Regí and Jansen. IN VIVO BONE RESPONSE TO POROUS CALCIUM PHOSPHATE CEMENT. *J. Biomed. Mater. Res.* 65A, 30-36 (2003) A.
379. N. Hijón, M.V. Cabañas, I. Izquierdo-Barba, M. Vallet-Regí. BIOACTIVE CARBONATE-HYDROXYAPATITE COATINGS DEPOSITED ONTO Ti6Al4V SUBSTRATE. *Chem. Mater.* (16) 1451-1455 (2004) A.
380. J. Gil-Albarova, R. Garrido-Lahigvera, A.J. Salinas, J. Roman, A.L. Bueno-Lozano, R. Gil-Albarova, M. Vallet-Regí. THE IN VIVO PERFORMANCE OF A SOL-GEL GLASS AND A GLASS-CERAMIC IN THE TREATMENT OF LIMITED BONE DEFECTS. *Biomaterials.* (25) 4639-4645 (2004) A.
381. A.L.Doadrio, E.M.B. Sousa, J.C.Doadrio, J. Pérez-Pariente, I. Izquierdo-Barba and M. Vallet-Regí. MESOPOROUS SBA-15HPLC EVALUATION FOR CONTROLLED GENTAMICIN DRUG DELIVERY. *J. Control Release.* (97) 125-132 (2004). A.
382. M.C. Serrano, R. Pagani, M. Vallet-Regí, J. Peña, A. Rámila, I. Izquierdo and M.T. Portolés. *IN VITRO* BIOCOMPATIBILITY ASSESSMENT OF POLY(ε-CAPROLACTONE) FILMS USING L929 MOUSE FIBROBLASTS. *Biomaterials.* (25) 5603-5611 (2004) A.

383. D. Arcos, J. Rodríguez-Carvajal and M. Vallet-Regí. SILICON INCORPORATION IN HYDROXYLAPATITE OBTAINED BY CONTROLLED CRYSTALIZATION. *Chem. Mater.* (16) 2300-2308. (2004). A.
384. D. Arcos, J. Peña and M. Vallet-Regí. TEXTURAL EVOLUTION OF A SOL-GEL GLASS SURFACE IN SBF. *Bioceramics Vol 16.* 254-256 (2004). CL.
385. J. Román, S. Padilla and M. Vallet-Regí. BIOACTIVE BEHAVIOUR IN BIPHASIC MIXTURES OF HYDROXYAPATITE SOL GEL GLASSES IN THE SYSTEM $\text{SiO}_2\text{-CaO-P}_2\text{O}_5$. *Bioceramics Vol 16* (254-256) 31-34 (2004). CL.
386. S. Padilla and M. Vallet-Regí. CONCENTRATED SUSPENSIONS OF HYDROXYAPATITE FOR GEL CASTING SHAPING. *Bioceramics Vol 16* (254-256) 35-38 (2004). CL.
387. P.A.A.P. Marques, M.C.F. Magalhaes, R.N. Correia, A.I. Martín, A.J. Salinas and M. Vallet-Regí. CERAMICS IN VITRO MINERALIZATION PROTOCOLS: A SUPERATURATION PROBLEM. *Bioceramics Vol 16* (254-256) 143-146 (2004). CL.
388. J. Peña, I. Izquierdo-Barba and M. Vallet-Regí. CALCIUM PHOSPHATE POROUS COATING ONTO ALUMINA SUBSTRATES BY LIQUID MIX METHOD. *Bioceramics Vol 16.* (254-256) 359-362 (2004). CL.
389. I. Izquierdo-Barba, M. Hijón, M.V. Cabañas and M. Vallet-Regí APATITE LAYERS BY A SOL-GEL ROUTE. *Bioceramics Vol 16* (254-256) 363-366 (2004). CL.
390. A.J. Salinas, J.M. Merino, N. Hijón, A.I. Martín and M. Vallet-Regí. BIOACTIVE ORGANIC-INORGANIC HYBRIDS BASED ON CaO-SiO_2 SOL-GEL GLASSES. *Bioceramics Vol 16* (254-256) 481-484 (2004). CL.
391. B.J.M. Leite Ferreira, M.G.G. M. Duarte, M. H. Gil, R.N. Correia, J. Román and M. Vallet-Regí. IN VITRO BIOACTIVITY IN GLASS-CERAMIC /PMMA-CO EHA COMPOSITES. *Bioceramics Vol 16* (254-256) 581-584 (2004). CL.
392. J.C. Doadrio, D. Arcos, M.V. Cabañas, M. Vallet-Regí. CALCIUM SULPHATE-BASED CEMENTS CONTAINING CEPHALEXIN. *Biomaterials.* (25) 2629-2635 (2004). A.
393. S. Padilla, R. García-Carrodeguas, M. Vallet-Regí. HYDROXYAPATITE SUSPENSIONS AS PRECURSORS OF PIECES OBTAINED BY GELCASTING METHOD. *J. Eur. Ceram. Soc.* (24) 2223-2232 (2004) A.
394. P. Horcajada, A. Rámila, J. Pérez-Pariente and M. Vallet-Regí. INFLUENCE OF PORE SIZE OF MCM-41 MATRICES ON DRUG DELIVERY RATE. *Micropor. Mesopor. Mater.* (68) 105-109 (2004) A.
395. A. Arroyo, J. M. Alonso, R. Cortés, J. M. González-Calbet, A. Hernando, J. M. Rojo and M. Vallet-Regí. ROOM-TEMPERATURE CMR IN MANGANITES WITH 50% Mn^{4+} BY GENERATION OF CATIONIC VACANCIES. *J. Magn. Magn. Mater.* 272-276, 1748-1750 (2004) A.
396. P. Odier, Z. Supardi, D. De-Barros, L. Vergnieres, J. Ramirez-Castellanos, J.M. Gonzalez-Calbet, M. Vallet-Regí, C. Villard, Ch. Peroz and F. Weiss. SPRAY PYROLYSIS FOR HIGH T_c SUPERCONDUCTORS FILMS. *Supercond. Sci. Tech.* 17 1303-1310 (2004) A.
397. D. Arcos, J. Rodríguez-Carvajal and M. Vallet-Regí. THE EFFECT OF THE SILICON INCORPORATION ON THE HYDROXYAPATITE STRUCTURE. A NEUTRON DIFFRACTION STUDY. *Solid State Sci.* 6, 987-994 (2004). A.
398. D. Arcos, J. Rodriguez-Carvajal and M. Vallet-Regí. NEUTRON SCATTERING FOR THE STUDY OF IMPROVED BONE IMPLANTS. *Phys. Rev. B.* 350, e607-e610 (2004) A.
399. J. Ramirez-Castellanos, M Vallet-Regí and J. M. Gonzalez-Calbet. EXTENDED DEFECTS AND REACTIVITY IN YBCO FILMS. *Solid State Ionics.*172, 539-541 (2004). A.
400. J. M. González-Calbet, J.M. Alonso, A. Arroyo, R. Cortes-Gil, M. Multigner, A. Hernando and M. Vallet-Regí. FERRO-ANTIFERROMAGNETIC TRANSITION IN SLIGHTLY DOPED MANGANITES. *Solid State Ionics.* 172, 549-551 (2004). A.
401. M. Vallet-Regí, J.C.Doadrio, A.L.Doadrio, I. Izquierdo-Barba, J. Pérez-Pariente. HEXAGONAL ORDERED MESOPOROUS MATERIALS AS A MATRIX FOR THE CONTROLLED RELEASE OF AMOXICILLIN. *Solid State Ionics.* 172, 435-439 (2004). A.

402. M. Vallet-Regí, J. Peña, I. Izquierdo-Barba. SYNTHESIS OF β -TRICALCIUM PHOSPHATE IN LAYERED OR POWDERED FORMS FOR BIOMEDICAL APPLICATION. *Solid State Ionics*. 172, 445-449 (2004). A.
403. P. Horcajada, A. Rámila, K. Boulahya, J. González-Calbet and M. Vallet-Regí. BIOACTIVITY IN ORDERED MESOPOROUS MATERIALS. *Solid State Sci.* 6, 1295-1300 (2004) A..
404. M. Vallet-Regí, A.J. Salinas, A. Martínez, I. Izquierdo-Barba, J. Pérez-Pariente. TEXTURAL PROPERTIES OF CaO-SiO_2 GLASSES FOR USE IN IMPLANTS. *Solid State Ionics*. 172, 441-444 (2004). A.
405. M. Vallet-Regí and J. González-Calbet. CALCIUM PHOSPHATES AS SUBSTITUTION OF BONE TISSUES. *Prog. Solid State Ch.* 32, 1-31 (2004) A. Review. Por invitación.
406. F. Babonneau, L. Yeung, N. Steunou, C.Gervais, A. Ramila and M. Vallet-Regí. SOLID STATE NMR CHARACTERISATION OF ENCAPSULATED MOLECULES IN MESOPOROUS SILICA. *J. Sol-Gel Sci. Technol.* 31, 219-223 (2004).
407. S. Padilla, J. Román, A. Carenas, M. Vallet-Regí. INFLUENCE OF THE PHOSPHORUS CONTENT ON THE BIOACTIVITY IN SOL-GEL GLASS CERAMICS. *Biomaterials*. 26, 475-483 (2005) A
408. S. Padilla, M. Vallet-Regí, M.P. Ginebra, F.J. Gil. PROCESSING AND MECHANICAL PROPERTIES OF HYDROXYAPATITE PIECES OBTAINED BY THE GELCASTING METHOD. *J. Eur. Ceram. Soc.* 25, 375-383 (2005) A.
409. D. Arcos, J. Rodríguez-Carvajal and M. Vallet-Regí. CRYSTAL-CHEMICAL CHARACTERISTICS OF SILICON-NEODYMIUM SUBSTITUTED HYDROXYAPATITES STUDIED BY COMBINED X-RAY AND NEUTRON POWDER DIFFRACTION. *Chem. Mater.* 17, 57-64 (2005) A.
410. J. Gil-Albarova, A. Salinas, A. L. Bueno-Lozano, J. Román, N. Aldini-Nicolo, A. García-Barea, G. Giavaresi, M. Fini, R. Giardini and M. Vallet-Regí. THE IN VIVO BEHAVIOUR OF A SOL-GEL GLASS AND A GLASS-CERAMIC DURING CRITICAL DIAPHYSEAL BONE DEFECTS HEALING. *Biomaterials*. 26, 4374-4382 (2005) A.
411. M. Vallet-Regí, I. Izquierdo-Barba, A. Rámila, J. Pérez-Pariente, F. Babonneau and J. González-Calbet. PHOSPHOROUS-DOPED MCM-41 AS BIOACTIVE MATERIAL. *Solid State Sci.* 7, 233-237 (2005) A.
412. M. Vallet-Regí, J. Román, S. Padilla, J.C.Doadrio, F.J. Gil. BIOACTIVITY AND MECHANICAL PROPERTIES OF $\text{SiO}_2\text{-CaO-P}_2\text{O}_5$ GLASS-CERAMICS. *J. Mater. Chem.* 15, 1353-1359 (2005). A
413. M. Vallet-Regí, A.J. Salinas, J. Ramírez-Castellanos and J.M. González-Calbet. NANOSTRUCTURE OF BIOACTIVE SOL-GEL GLASSES AND ORGANIC-INORGANIC HYBRIDS. *Chem. Mater.* 17, 1874-1879. (2005)
414. M. Vallet-Regí and D. Arcos. SILICON SUBSTITUTED HYDROXYAPATITES. A METHOD TO UPGRADE CALCIUM PHOSPHATE BASED IMPLANTS. *J. Mater. Chem.*, 15, 1509 - 1516. (2005) Portada de revista. Por invitación.
415. M.C. Serrano, M.T. Portoles, M. Vallet-Regí, Izquierdo-Barba, L. Galleti, J.V. Comas and R. Pagani. VASCULAR ENDOTHELIAL AND SMOOTH MUSCLE CELL CULTURE ON NaOH -TREATED POLY(ϵ -CAPROLACTONE) FILMS AS A PRELIMINARY STUDY FOR VASCULAR GRAFT DEVELOPMENT BY TISSUE ENGINEERING. *Macromol. Biosci.* 5, 415-423 (2005). A.
416. N. Hijón, M. Manzano, A.J. Salinas, and M. Vallet-Regí. BIOACTIVE $\text{CaO-SiO}_2\text{-PDMS}$ COATINGS ONTO Ti6Al4V SUBSTRATES. *Chem. Mater.* 17, 1591-1596 (2005). A.
417. J.M. Alonso, A. Arroyo, R. Cortés-Gil, M.A. García, J.M. González-Calbet, J.M. González, A. Hernando, J.M. Rojo and M. Vallet-Regí. THERMALLY ACTIVATED DEMAGNETIZATION IN $\text{MnLa}_{0.97}\text{Ca}_{0.03}\text{MnO}_{3-\square}$. *J.M.M.M.* 290-291, 482-485 (2005). A.
418. A.I. Martín, A.J. Salinas and M. Vallet-Regí. BIOACTIVE AND DEGRADABLE ORGANIC-INORGANIC HYBRIDS. *J. Eur. Ceram. Soc.* 25, 3533-3538 (2005). A.
419. S. Padilla, S. Sánchez-Salcedo and M. Vallet-Regí. BIOACTIVE AND BIOCOMPATIBLE PIECES OF HA/SOL-GEL GLASS MIXTURES OBTAINED BY THE GEL CASTING METHOD. *J. Biomed. Mater. Res.* 75A, 63-72 (2005). A.

420. I. Izquierdo-Barba, L. Ruiz-González, J.C. Doadrio, J.M. González-Calbet and M.Vallet-Regí. TISSUE REGENERATION: A NEW PROPERTY OF MESOPOROUS MATERIALS. *Solid State Sci.* 7, 983-989 (2005). A.
421. I. Izquierdo-Barba, A. Martínez, A.L. Doadrio, J. Pérez-Pariente and M. Vallet-Regí. RELEASE EVALUATION OF DRUGS FROM ORDERED TRIDIMENSIONAL SILICA STRUCTURES. *Eur. J. Pharm. Sci.* 26, 365-373 (2005).
422. L. Esquivias, V. Morales-Flórez, M. Piñero, N de la Rosa-Fox, J. Ramírez, J.G. González-Calbet, A.J. Salinas and M. Vallet-Regí. BIOACTIVE ORGANIC-INORGANIC HYBRID AEROGELS. *Mater. Res. Soc. Symp. Proc.* 847, EE12.1.1-EE12.1.6 (2005)
423. J.C. Doadrio, E.M.B. Sousa, I.Izquierdo-Barba, A.L. Doadrio, J. Pérez-Pariente and M. Vallet-Regí. FUNCIONALIZATION OF MESOPOROUS MATERIALS WITH LONG ALKYL CHAINS AS A STRATEGY FOR CONTROLLING DRUG DELIVERY PATTERN. *J. Mater. Chem.* 16, 462 - 466 (2006).
424. M. Vallet-Regí, L. Ruiz-González, I. Izquierdo and J. M. González-Calbet. REVISITING SILICA BASED ORDERED MESOPOROUS MATERIALS: MEDICAL APPLICATIONS. *J. Mater. Chem.*, 16, 26 - 31 (2006). Application Article. Por invitación.
425. J. Peña, T. Corrales, I.Izquierdo-Barba, M.C. Serrado, T. Portolés, R. Pagani and M. Vallet-Regí. ALKALINE TREATED POLY (E-CAPROLACTONE) FILMS: DEGRADATION IN IN THE PRESENCE OR ABSENCE OF FIBROBLAST. *J. Biomed. Mater. Res.* 76A, 788-797 (2006).
426. R. Cortes-Gil, A. Arroyo, L. Ruiz-Gonzalez, J.M. Alonso, A. Hernando, J.M. Gonzalez-Calbet and M. Vallet-Regí. EVOLUTION OF MAGNETIC BEHAVIOUR IN OXYGEN DEFICIENT LaMnO_3 -d. *J. Phys. Chem.Sol.* 67 579–582 (2006).
427. J. Peña, T. Corrales, I.Izquierdo-Barba, A. L. Doadrio and M. Vallet-Regí. LONG TERM DEGRADATION OF POLY (E-CAPROLACTONE) FILMS IN BIOLOGICALLY RELATED FLUIDS. *Polym. Degrad. Stabil.* 91, 1424-1432 (2006).
428. L. Meseguer-Olmo, M.J. Ros, V. Vicente-Ortega, M. Alcaraz, M. Clavel, D. Arcos, M. Vallet-Regí, C. Meseguer-Ortiz. A BIOACTIVE SOL-GEL GLASS IMPLANT FOR IN VIVO GENTAMICIN RELEASE. EXPERIMENTAL MODEL IN RABBIT. *J. Orthop. Res.* 24, 454-460 (2006).
429. S. Sánchez-Salcedo, I.Izquierdo-Barba, D. Arcos and M. Vallet-Regí. IN VITRO EVALUATION OF POTENTIAL CALCIUM PHOSPHATE SCAFFOLDS FOR TISSUE ENGINEERING. *Tissue Engineering.* 12 (2) 279-290 (2006).
430. M. Vallet-Regí. BONE REPAIR AND REGENERATION POSSIBILITIES. *Materialwiss Werkst.* 37, (6) 478-484 (2006). Portada de revista.
431. F.J.Palomares, F. Pigazo, J.J. Romero, R. Cuadrado, J.M. Alonso, A. Arroyo, R. Cortés-Gil, M.A. García, J.M. González-Calbet, M. Vallet-Regí, A. Hernando and J.M. González. TEMPERATURE DEPENDENCE OF THE MAGNETIC PROPERTIES IN $\text{LaMnO}_3+\delta$. *J. Appl. Phys.* 99, 08A702 (2006).
432. S. Padilla, J. Román, S. Sánchez-Salcedo and M. Vallet-Regí. HYDROXYAPATITE/ SiO_2 -CAO- P_2O_5 MATERIALS: IN VITRO BIOACTIVITY AND BIOCOMPATIBILITY. *Acta Biomaterialia.* 2, 331-342 (2006).
433. J. Peña, I.Izquierdo-Barba, A. Martínez and M. Vallet-Regí. NEW METHOD TO OBTAIN CHITOSAN/APATITE MATERIALS AT ROOM TEMPERATURE. *Solid State Sci.* 8, 513-519 (2006).
434. J.M. Alonso, J.M. González-Calbet, A. Hernando, M. Vallet-Regí, M.E. Dávila and M.C. Asensio. INFLUENCE OF Mn^{2+} IN THE MAGNETIC BEHAVIOUR OF MANGANESO RELATED-PEROVSKITES. *J. Phys. Chem. Sol.* 67, 571-574 (2006).
435. N.Hijón, M.V. Cabañas, I. Izquierdo-Barba, M.A. García and M. Vallet-Regí. NANOCRYSTALLINE BIOACTIVE APATITE COATINGS. *Solid State. Sci.* 8, 685-691 (2006).
436. M. Manzano, A. J. Salinas and M. Vallet-Regí. P-CONTAINING ORMOSILS FOR BONE RECONSTRUCTION. *Prog. Solid State Ch.* 34, 267-277 (2006) .

437. A. López-Noriega, D. Arcos, I. Izquierdo-Barba, Y. Sakamoto, O. Terasaki and M. Vallet-Regí. ORDERED MESOPOROUS BIOACTIVE GLASSES FOR BONE TISSUE REGENERATION. *Chem. mater.* 18, 3137-3144 (2006)
438. Vallet-Regí. ORDERED MESOPOROUS MATERIALS IN THE CONTEXT OF DRUG DELIVERY SYSTEMS AND TISSUE ENGINEERING. *Chem. Eur. J.* 12, 5934-5943 (2006). Concept article. Por invitación.
439. F. Balas, M. Manzano, P. Horcajada and M. Vallet-Regí. CONFINEMENT AND CONTROLLED RELEASE OF BISPHOSPHONATES ON ORDERED MESOPOROUS SILICA-BASED MATERIALS. *J. Am. Chem. Soc.* 128, 8116-8117 (2006)
440. I. Izquierdo-Barba, F. Conde, N. Olmo, M.A. Lizarbe, M.A. García and M. Vallet-Regí. VITREOUS SiO₂-CaO COATINGS ONTO Ti6Al4V ALLOYS: REACTIVITY IN ACELLULAR SOLUTION VS OSTEOBLAST CELL CULTURE. *Acta Biomaterialia.* 2, 445-455 (2006).
441. M.V. Cabañas, J. Peña, J. Román and M. Vallet-Regí. ROOM TEMPERATURE SYNTHESIS OF PIECES WITH TAILORED INTERCONNECTED POROSITY. *J. Biomed. Mater. Res.* 78A, 508-514 (2006).
442. B.J. Ferreira, M.G. Duarte, M.H. Gil, R.N. Correia, J. Román and M. Vallet-Regí. BIOACTIVE COMPOSITE MATERIALS FOR BONE TISSUE APPLICATIONS. *Adv. Mater. Forum* III, 514-516, 985-989 (2006).
443. N. Hijón, M.V. Cabañas, J. Peña and M. Vallet-Regí. DIP COATED SILICON-SUBSTITUTED BYDROXYAPATITE FILMS. *Acta Biomaterialia.* 2, 567-574 (2006)
444. M. Vallet-Regí and D. Arcos. NANOSTRUCTURED HYBRID MATERIAL FOR BONE TISSUE REGENERATION. *Current Nanoscience.* 2, 179-189 (2006). Por invitación.
445. J. Peña, I. Izquierdo-Barba, M.A. García and M. Vallet-Regí. ROOM TEMPERATURE SYNTHESIS OF CHITOSAN/APATITE POWDERS AND COATINGS. *J. Eur. Ceram. Soc.* 26, 3631-3638 (2006).
446. P. Horcajada, Christian Serre, M. Vallet-Regí, Muriel Sebban, Francis Taulelle and G. Férey. METAL-ORGANIC-FRAMEWORKS AS EFFICIENT MATERIALS FOR DRUG DELIVERY. *Angew. Chem. Int. Ed.* 45, 5974-5998 (2006).
447. P. Horcajada, A. Rámila, G. Férey and M. Vallet-Regí. INFLUENCE OF SUPERFICIAL ORGANIC MODIFICATION OF MCM-41 MATRICES ON DRUG DELIVERY RATE. *Solid State Sci.* 8, 1243-1249 (2006).
448. E. Ruiz, M. C. Serrano, D. Arcos and M. Vallet-Regí. GLASS-GLASS CERAMIC THERMOSEEDS FOR HYPERTHERMIC TREATMENT OF BONE TUMOURS. *J. Biomed. Mater. Res.* 79A: 533-543 (2006)
449. M. Vallet-Regí. REVISITING CERAMICS FOR MEDICAL APPLICATIONS. *J. Chem. Soc. Dalton Trans.* 5211-5220 (2006)
450. M. Colilla, A. J. Salinas and M. Vallet-Regí. AMINO-POLYSILOXANE HYBRID MATERIALS FOR BONE RECONSTRUCTION. *Chem. Mater.* 18, 5676-5683 (2006).
451. M. Vallet-Regí, A.J. Salinas and D. Arcos. FROM THE BIOACTIVE GLASSES TO THE STAR GELS. *J. Mat. Sci. Mater. Med.* 17, 1011-1017 (2006)
452. M. Manzano, D. Arcos, M. Rodríguez-Delgado, E. Ruíz, F.J. Gil and M. Vallet-Regí. BIOACTIVE STAR GELS. *Chem. Mater.* 18, 5696-5703 (2006).
453. D. Arcos, S. Sánchez-Salcedo, I. Izquierdo-Barba, L. Ruíz, J. González-Calbet, M. Vallet-Regí. CRYSTALLOCHEMISTRY, TEXTURAL PROPERTIES AND IN VITRO BIOCOMPATIBILITY OF DIFFERENT SILICON DOPED CALCIUM PHOSPHATES. *J. Biomed. Mater. Res.* 78A, 762-771 (2006).
454. P. Horcajada, C. Márquez-Alvarez, A. Rámila, J. Pérez-Pariente, M. Vallet-Regí. CONTROLLED RELEASE OF IBUPROFEN FROM DEALUMINATED FAUJASITES. *Solid State Sci.* 8, 1459-1465 (2006).
455. M. L. Ruiz-González, R. Cortés-Gil, J. M. Alonso, A. Hernando, J. M. González-Calbet and M. Vallet-Regí. STRUCTURAL ORDERING AND FERROMAGNETISM IN LA₄MN₄O₁. *Chem. Mater.* 18, 5756-5763. (2006).

456. M.A. García, M.L. Ruiz-González, G. De la Fuente, P. Crespo, J.M. González, J.M. González-Calbet, M. Vallet-Regí and A. Hernando. FERROMAGNETISM IN TWINNED Pt NANOPARTICLES. *Chem. Mater.* 19, 889-893 (2007).
457. A.J. Salinas, J.M. Merino, J.Gil, F. Babonneau and M. Vallet-Regí. MICROSTRUCTURE AND MACROSCOPIC PROPERTIES OF CaO-SiO₂ PDMS HYBRIDS FOR USE IN IMPLANTS. *J. Biomed. Mater. Res. B.* 81B 274-282 (2007).
458. S. Padilla, S. Sánchez-Salcedo and M. Vallet-Regí. BIOACTIVE GLASS AS PRECURSOR OF DESIGNED ARCHITECTURE SCAFFOLDS FOR TISSUE ENGINEERING. *J. Biomed. Mater. Res.* 81A. 224-232 (2007).
459. R. Ramirez Camacho, M. Pinilla Urraca, JR. García Berrocal and M. Vallet-Regí. ATROPHY OF THE TYMPANIC MEMBRANE IN CONTACT WITH HYDROXYAPATITE PROSTHESIS: PHYSIOPATHOLOGIC APPROACH. *An Otorrinolaringol Ibero Am.* 28, 513-522 (2007).
460. F. Balas, M. Rodríguez Delgado, C. Otero-Arean, F. Conde, E. Matasanz, L. Esquivias, J. R. Ramírez-Castellanos, J.M. González-Calbet and M. Vallet-Regí. STRUCTURAL CHARACTERIZATION OF NANOSIZED SILICA SPHERES. *Solid State Sci.* 9, 351-356 (2007).
461. M. Colilla, F. Balas, M. Manzano and M. Vallet-Regí. NOVEL METHOD TO ENLARGE THE SURFACE AREA OF SBA-15. *Chem. Mater.* 19, 3099-3101 (2007).
462. E. Ruiz-Hernández, A. López, D. Arcos, I. Izquierdo-Barba, O. Terasaki, M. Vallet-Regí AEROSOL-ASSISTED SYNTHESIS OF MAGNETIC MESOPOROUS SILICA SPHERES FOR DRUG TARGETING. *Chem. Mater.* 19, 3455-3463 (2007).
463. A. Salinas and M. Vallet-Regí. EVOLUTION OF CERAMICS WITH MEDICAL APPLICATIONS. *Z. Anorg. Allg. Chem.* 633, 1762-1773 (2007)
464. M. Vallet-Regí, F. Balas, D. Arcos. MESOPOROUS MATERIALS FOR DRUG DELIVERY. *Angew. Chem. Int. Ed.* 46, 7548-7558 (2007).
465. M. Vallet-Regí, F. Balas, M. Colilla, M. Manzano. BIOCERAMICS AND PHARMACEUTICALS: A REMARKABLE SYNERGY. *Solid State Sci.* 9, 768-776 (2007).
466. L. Ruiz-González, R. Cortés-Gil, J.M. Alonso, J.M. González-Calbet and M. Vallet-Regí. REVISITING THE ROLE OF VACANCIES IN MANGANESE RELATED PEROVSKITES. *The Open Inorg. Chem J. Benthan Publ. Ltd.* 1874-0987, 1, 37-46 (2007)
467. C. Aparicio, J.M. Manero, F. Conde, M. Pegueroles, J.A. Planell, M. Vallet-Regí and F.J. Gil. ACCELERATION OF APATITE NUCLEATION ON MICROROUGH BIOACTIVE TITANIUM FOR BONE-REPLACING IMPLANTS. *J. Biomed. Mater. Res.* 82A, 521-529 (2007).
468. J. M. Alonso, R. Cortés-Gil, L. Ruiz-González, J. M. González-Calbet, A. Hernando, M. Vallet-Regí, M.E. Dávila and M.C. Asensio. INFLUENCE OF THE SYNTHESIS PATHWAY IN THE PROPERTIES OF OXYGEN DEFICIENT MANGANESE RELATED PEROVSKITES. *Eur. J. Inorg. Chem.* 21, 3350-3355 (2007).
469. R. Cortes-Gil, A. Arroyo, L. Ruiz-Gonzalez, J.M. Alonso, A. Hernando, J.M. Gonzalez-Calbet and M. Vallet-Regí. FERROMAGNETISM IN A NEW MANGANESE- RELATED BROWNMILLERITE: LA_{0.5}SR_{0.5}MNO_{2.5}. *Chem.Eur. J.* 13(15) 4246-4252 (2007).
470. M. Vallet-Regí, F. Balas, M. Colilla, M. Manzano. DRUG CONFINEMENT AND DELIVERY IN CERAMIC IMPLANTS. *Drug metabolism Letters.* 1, 37-40. (2007).
471. M. Vallet-Regí. CURRENT TRENDS ON POROUS INORGANIC MATERIALS FOR BIOMEDICAL APPLICATIONS. *Chem. Eng. J.*, 137, 1-3 (2008).
472. M. Vallet-Regí, M. Colilla and I. Izquierdo-Barba. BIOACTIVE MESOPOROUS SILICAS AS CONTROLLED DELIVERY SYSTEMS: APPLICATION IN BONE TISSUE REGENERATION. *J. Biomed. Nanotecnol.* 4, 1-15 (2008)
473. F. Balas, M. Manzano, M. Colilla and M. Vallet-Regí. L-TRP ADSORPTION INTO SILICA MESOPOROUS MATERIALS TO PROMOTE BONE FORMATION. *Acta Biomaterialia.* 4, 514-522 (2008)

474. E. Leonova, I. Izquierdo-Barba, D. Arcos, A. López-Noriega, N. Hedin, M. Vallet-Regí, M. Edén. MULTINUCLEAR SOLID STATE NMR STUDIES OF ORDERED MESOPOROUS BIOACTIVE GLASSES. *J. Phys. Chem .C.* 112, 5552-5562 (2008)
475. E. Ruiz-Hernández, A.López-Noriega, D. Arcos and M. Vallet-Regí. MESOPOROUS MAGNETIC MICROSPHERES FOR DRUG TARGETING. *Solid State Sci.* 10, 421-426 (2008).
476. M. Colilla, F. Balas, M. Manzano and M. Vallet-Regí. NOVEL METHOD TO SYNTHESIZE ORDERED MESOPOROUS SILICA WITH HIGH SURFACE AREAS. *Solid State Sci.* 10, 408-415 (2008).
477. I. Izquierdo-Barba, D. Arcos, Y. Sakamoto, O. Terasaki, A. Lopez-Noriega, M. Vallet-Regí. HIGH PERFORMANCE MESOPOROUS BIOCERAMICS MIMICKING BONE MINERALIZATION. *Chem. Mater.* 20, 3191-3198 (2008)
478. M. Colilla, I. Izquierdo-Barba, M. Vallet-Regí. NOVEL BIOMATERIALS FOR DRUG DELIVERY. *Expert Opin. Ther. Pat.* 18 (6) 639-656 (2008)
479. M. Concepción Serrano, M.T. Portoles, R. Pagani, J. Sáez de Guinoa, E. Ruíz, D. Arcos and M. Vallet-Regí. IN VITRO POSITIVE BIOCOMPATIBILITY EVALUATION OF GLASS-GLASS CERAMIC THERMOSEEDS FOR HYPERTHERMIC TREATMENT OF BONE TUMOURS. *Tissue Engineering. Part A.* 14 (5) 617-627 (2008).
480. S. Sánchez-Salcedo, J. Werner and M. Vallet-Regí. HIERARCHICAL PORE STRUCTURE OF CALCIUM PHOSPHATE SCAFFOLDS BY COMBINATION OF TH GEL CASTING AND MULTIPLE TAPE CASTING METHODS. *Acta Biomaterialia.* 4, 913-922 (2008) .
481. L. Meseguer Olmo, A Bernabeu-Escaplez, E Ros-Martinez, S Sánchez-Salcedo, S Padilla, AI Martín, M. Vallet-Regí, M Clavel-Sainz, F Lopez-Prats, CL. Meseguer-Ortiz. IN VITRO BEHAVIOUR OF ADULT MESENCHYMAL STEM CELLS SEEDED ON A BIOACTIVE GLASS-CERAMIC IN THE SYSTEM $\text{SiO}_2\text{-CaO-P}_2\text{O}_5$. *Acta Biomaterialia.* 4, 1104-1113 (2008).
482. B. González, M. Colilla and M. Vallet-Regí. TIME-DELAYED RELEASE OF BIOENCAPSULATES: A NOVEL COTROLLED DELIVERY CONCEPT FOR BONE IMPLANT TECHNOLOGIES. *Chem. Mater.* 20, 4826-4834 (2008).
483. P. Horcajada, C. Serre, G. Maurin, A. Ramsahye, F. Balas, M Vallet-Regí, M. Sebban, F. Taulelle and G. Férey. FLEXIBLE POROUS METAL-ORGANIC-FRAMEWORKS FOR A CONTROLLED DRUG DELIVERY. *J. Am. Chem. Soc.* 130, 6774-6780 (2008)
484. M. Vallet-Regí, F. Balas, M. Colilla, M. Manzano. BONE-REGENERATIVE BIOCERAMIC IMPLANTS WITH DRUG AND PROTEIN CONTROLLED DELIVERY CAPABILITY. *Prog. Solid State Ch.* (36) 163-191 (2008).
485. R. Cortés-Gil, M. Hernando, M. L. Ruiz-González, E. Céspedes, C. Prieto, J. M. Alonso, M. Vallet-Regí, A. Hernando and J.M. González-Calbet. MAGNETIC STRUCTURE AND ELECTRONIC STUDY OF COMPLEX OXYGEN DEFICIENT MANGANITES *Chem. Eur. J.* 14, 9038-9045 (2008)
486. A. Nieto, F. Balas, M. Colilla, M. Manzano and M. Vallet-Regí. FUNCTIONALIZATION DEGREE OF SBA-15 AS KEY FACTOR TO MODULATE ALENDRONATE DOSAGE. *Micropor. Mesopor. Mater.* 116, 4-13 (2008)
- 487 M. C. Serrano, R. Pagani, G. A. Ameer, M. Vallet-Regí, M. T. Portolés. ENDOTHELIAL CELLS DERIVED FROM CIRCULATING PROGENITORS AS AN EFFECTIVE SOURCE TO FUNCTIONAL ENDOTHELIALIZATION OF NaOH-TREATED POLY(-CAPROLACTONE) FILMS. *J. Biomed. Mater. Res.* 87A: 964-971 (2008).
488. I. Izquierdo-Barba, M. Colilla and M. Vallet-Regí, NANOSTRUCTURED MESOPOROUS SILICAS FOR BIOMEDICAL APPLICATIONS. *J. Nanomat.* vol. 2008, 106970, 14 (2008).
489. J. Román, V. Cabañas, J. Peña, J. Doadrio and M. Vallet-Regí. AN OPTIMISED β -TRICALCIUM PHOSPHATE AND AGAROSE SCAFFOLD FABRICATION TECHNIQUE. *J. Biomed. Mater. Res A.* 84A, 99-107 (2008).

490. S. Padilla, I. Izquierdo-Barba and M. Vallet-Regí, HIGH SPECIFIC SURFACE AREA IN NANOMETRIC CARBONATED HYDROXYAPATITE. *Chem. Mater.* 20, 5942-5944 (2008).
491. J. Schiwartz, W. Meyer-Zaika, L. Ruiz-González, J.M. González Calbet, M. Vallet-Regí and M. Epple. CALCIUM PHOSPHATE NANOPARTICLES AS TEMPLATES FOR NANOCAPSULES PREPARED BY THE LAYER-BY-LAYER TECHNIQUE. *J. Mater. Chem.* 18, 3831-3834 (2008).
492. L. Meseguer, A. Bernabeu, M. Clavel-Sainz, S. Sánchez, S. Padilla, A. Martín, M. Vallet-Regí, F. López, Cl. Meseguer, P. Sánchez. GLASS-CERAMIC AS SCAFFOLD FOR MSCs GROWTH. *Tissue Engineering.* 14 (5) 857-857 (2008).
493. M. Colilla, M. Manzano and M. Vallet-Regí. RECENT ADVANCES IN CERAMIC IMPLANTS AS DRUG DELIVERY SYSTEMS FOR BIOMEDICAL APPLICATIONS. *Int. J. Nanomed.* 3, 403-414 (2008).
494. R. Cortés-Gil, J. M. Alonso, M. Luisa Ruiz-González, M. Vallet-Regí, A. Hernando and J. M. González-Calbet. AN ELECTRON-ATTRACTOR MODEL: FM NANOCCLUSERS RESPONSIBLE FOR MAGNETORESISTANT BEHAVIOUR IN CA RICH LA1-XCAXMNO₃. *Chem. Mater.* 20(10), 3398-3403 (2008).
495. M. Vallet-Regí and F. Balas. SILICA MATERIALS FOR MEDICAL APPLICATIONS. *Open Biomed. Eng. J.* 2, 1-9 (2008).
496. S. Sánchez-Salcedo, A. Nieto and M. Vallet-Regí. HYDROXYAPATITE/ β -TRICALCIUM PHOSPHATE/AGAROSE MACROPOROUS SCAFFOLDS FOR BONE TISSUE ENGINEERING. *Chem. Eng. J.* 137, 62-71 (2008).
497. M. Manzano, V. Aina, CO. Arean, F. Balas, V. Cauda, M. Colilla, MR. Delgado and M. Vallet-Regí. STUDIES ON MCM-41 MESOPOROUS SILICA FOR DRUG DELIVERY: EFFECT OF PARTICLE MORPHOLOGY AND AMINE FUNCTIONALIZATION. *Chem. Eng. J.* 137, 30-37 (2008).
498. D. Arcos, I. Izquierdo-Barba and M. Vallet-Regí. PROMISING TRENDS OF BIOCERAMICS IN THE BIOMATERIALS FIELD. *J. Mater. Sci. Mater. Med.* 20, 447-455 (2009).
499. T.J. Kinnari, J. Esteban, E. Gomez-Barrena, N. Zamora, R. Fernandez-Roblas, A. Nieto, J.C. Doadrio, A. López-Noriega, E. Ruiz-Hernández, D. Arcos and M. Vallet-Regí. BACTERIAL ADHERENCE TO SIO₂ BASED MULTIFUNCTIONAL BIOCERAMICS. *J. Biomed. Mater. Res. A.* 89A, 215-223 (2009).
500. D. Arcos, A. Lopez-Noriega, E. Ruiz-Hernández, O. Terasaki and M. Vallet-Regí. ORDERED MESOPOROUS MICROSPHERES FOR BONE GRAFTING AND DRUG DELIVERY. *Chem. mater.* 21, 1000-1009 (2009)
501. M. Alcaide, M.C. Serrano, R. Pagani, S. Sánchez-Salcedo, A. Nieto, M. Vallet-Regí and M.T. Portoles. L929 FIBROBLAST AND SAOS-2 OSTEOLAST RESPONSE TO HYDROXYAPATITE- β TCP/AGAROSE BIOMATERIAL. *J. Biomed. Mater. Res. A.* 89A, 539-549 (2009).
502. H. Urch, M. Vallet-Regí, L. Ruiz, J. M. Gonzalez-Calbet, and M. Epple. CALCIUM PHOSPHATE NANOPARTICLES WITH ADJUSTABLE DISPERSABILITY AND CRYSTALLINITY. *J. Mater. Chem.* 19, 2166-2171 (2009).
503. L. Saldaña, S. Sánchez-Salcedo, I. Izquierdo-Barba, F. Bensiamar, L. Munuera, M. Vallet-Regí and N. Vilaboa. CALCIUM PHOSPHATE-BASED PARTICLES INFLUENCE OSTEOGENIC MATURATION OF HUMAN MESENCHYMAL STEM CELLS. *Acta Biomaterialia.* 5, 1294-1305 (2009).
504. M.C. Serrano, R. Pagani, M. Vallet-Regí, J. Peña, J.V Comas and M.T. Portolés. NITRIC OXIDE PRODUCTION BY ENDOTHELIAL CELLS DERIVED FROM BLOOD PROGENITORS CULTURED ON NaOH-TREATED POLYCAPROLACTONE FILMS: A BIOFUNCTIONALITY STUDY. *Acta Biomaterialia.* 5, 2045-2053 (2009)
505. I. Izquierdo-Barba, E. Sousa, J.C. Doadrio, A.L. Doadrio, J. Pérez Pariente, A. Martínez, F. Babonneau and M. Vallet-Regí. INFLUENCE OF MESOPOROUS STRUCTURE TYPE ON THE CONTROLLED DELIVERY OF DRUGS: RELEASE OF IBUPROFEN FROM MCM-48, SBA-15 AND FUNCTIONALIZED SBA-15. *J. Sol-gel Tech.* 50, 421-429 (2009)
506. M.V. Cabañas, J. Peña, J. Román and M. Vallet-Regí. TAILORING VANCOMYCIN RELEASE FROM b-TCP/AGAROSE SCAFFOLDS. *Eur. J. Pharm. Sci.* 37 249-256 (2009)

507. M. Manzano, A. J. Salinas, F. J. Gil and M. Vallet-Regí. MECHANICAL PROPERTIES OF ORGANICALLY MODIFIED SILICATES FOR BONE REGENERATION. *J. Mater Sci. Mater. Med.* 20, 1795-1801 (2009).
508. I. Izquierdo-Barba, M. Vallet-Regí, N. Kupferschmidt, O. Terasaki, A. Schmidtchen and Martin Malmsten. INCORPORATION OF ANTIMICROBIAL COMPOUNDS IN MESOPOROUS SILICA FILM MONOLITH. *Biomaterials.* 30, 5729–5736 (2009).
509. S.Sánchez-Salcedo, F. Balas, I.Izquierdo-Barba, M.Vallet-Regí. IN-VITRO STRUCTURAL CHANGES IN POROUS HA/ β -TCP SCAFFOLDS UNDER SIMULATED BODY FLUID. *Acta Biomaterialia.* 5, 2738–2751 (2009).
510. A. Garcia, M. Colilla, I. Izquierdo-Barba, and M. Vallet-Regí. INCORPORATION OF PHOSPHORUS INTO MESOSTRUCTURED SILICAS: A NOVEL APPROACH TO REDUCE THE SiO_2 LEACHING IN WATER. *Chem. Mater.* 21, 4135–4145 (2009).
511. L. Meseguer L. CG. de Insausti, EA.Bernabeu, FR. Lozano, M. Valle-Regi, M. Blanquer, JM. Moraleda, M. Clavel. A NEW SCAFFOLD FOR BONE TISSUE ENGINEERING BASED IN MESENCHYMAL STEM CELLS AND GLASS-CERAMICS. *Bone Marrow Transplant.* 43, 192-193 (2009)
512. M.Vila, J.L.Hueso, M.Manzano, I.Izquierdo-Barba, A. de Andrés, J. Sánchez-Marcos, C. Prieto, M.Vallet-Regí. CARBON NANOTUBES-MESOPOROUS SILICA COMPOSITES AS CONTROLLABLE BIOMATERIALS. *J. Mater. Chem.* 19, 7745 – 7752 (2009)
513. A. Nieto, S. Areva, T. Wilson, R. Viitala and M. Vallet-Regí, CELL VIABILITY IN A WET SILICA GEL. *Acta Biomaterialia.* 5, 3478-3487 (2009).
514. A. Garcia, M. Cicuendez, I. Izquierdo-Barba, D. Arcos, M. Vallet-Regí. ESSENTIAL ROLE OF CALCIUM PHOSPHATE HETEROGENEITIES IN 2D-HEXAGONAL AND 3D-CUBIC SiO_2 -CAO- P_2O_5 MESOPOROUS BIOACTIVE GLASSES. *Chem. Mater.* 21, 5474–5484 (2009).
515. B. González, M. Colilla, C. López de Laorden, M. Vallet-Regí. A NOVEL SYNTHETIC STRATEGY FOR COVALENTLY BONDING DENDRIMERS TO ORDERED MESOPOROUS SILICA: POTENTIAL DRUG DELIVERY APPLICATIONS. *J. Mater. Chem.* 19, 9012–9024 (2009).
516. M. Manzano, M. Colilla, M. Vallet-Regí. DRUG DELIVERY FROM ORDERED MESOPOROUS MATRICES. *Expert Opin. Drug Deliv.* 6, 1383-1400 (2009).
517. A. J. Salinas, M. Vallet-Regí, J. A. Toledo-Fernández, R. Mendoza-Serna, M. Piñero, L. Esquivias, J. Ramírez-Castellanos, and J. M. González-Calbet. NANOSTRUCTURE AND BIOACTIVITY OF HYBRID AEROGELS. *Chem. Mater.* 21, 41-47 (2009).
518. A. Lopez-Noriega, E. Ruiz-Hernández, S.M. Stevens, D. Arcos, M.W. Anderson, O. Terasaki, M. Vallet-Regí. MESOPOROUS MICROSPHERES WITH DOUBLY ORDERED CORE-SHELL STRUCTURE. *Chem. Mater.* 21, 18-20 (2009)
519. M. Alcaide, M.C. Serrano, R. Pagani, S.Sanchez-Salcedo, M. Vallet-Regí, M.Teresa Portoles. BIOCOMPATIBILITY MARKERS FOR THE STUDY OF INTERACTIONS BETWEEN OSTEOBLASTS AND COMPOSITES BIOMATERIALS. *Biomaterials.* 30, 45-51 (2009).
520. T.J. Kinnari, J. Esteban, N.Z. Martin-de-Hijas, O. Sánchez-Muñoz, S. Sánchez-Salcedo, M. Colilla, M. Vallet-Regí, E. Gomez-Barrena. INFLUENCE OF SURFACE POROSITY AND PH ON BACTERIAL ADHERENCE TO HYDROXYAPATITE AND BIPHASIC CALCIUM PHOSPHATE. *J. Med. Microbiol.* 58, 132-137 (2009).
521. S. Kittler, C. Greulich, J. S. Gebauer, J. Diendorf, L. Treuel, L. Ruiz, J. M. Gonzalez-Calbet, M. Vallet-Regi, R. Zellner, M. Köller, M. Epple. THE INFLUENCE OF PROTEINS ON THE DISPERSABILITY AND CELL-BIOLOGICAL ACTIVITY OF SILVER NANOPARTICLES. *J. Mater. Chem.* 20, 512-518 (2010).
522. A. Baeza, I. Izquierdo-Barba and M. Vallet-Regí. BIOTINYLATION OF SILICON-DOPED HYDROXYPATITE: NEW APPROACH FOR PROTEINS FIXATION FOR BONE TISSUE REGENERATION. *Acta Biomaterialia* 6, 743–749 (2010)
523. D. Lozano, M. Manzano, J.C. Doadrio, A.J. Salinas, M.Vallet-Regí, E. Gómez-Barrena, P. Esbrit. OSTEOSTATIN-LOADED BIOCERAMICS STIMULATE OSTEOBLASTIC GROWTH AND DIFFERENTIATION. *Acta Biomaterialia.* 6, 797–803 (2010)

524. M. Vallet-Regí. NANOSTRUCTURED MESOPOROUS SILICA MATRICES IN NANOMEDICINE. *J. Internal Medicine*. 267, 22-43 (2010).
525. J. Peña, J. Román and M.V. Cabañas, M. Vallet-Regí,. AN ALTERNATIVE TECHNIQUE TO SHAPE SCAFFOLDS WITH HIERARCHICAL POROSITY AT PHYSIOLOGICAL TEMPERATURE. *Acta Biomaterialia*. 6, 1288-1296 (2010)
526. M. Colilla, M. Manzano, I. Izquierdo-Barba, C. Boissiere, C. Sanchez, M. Vallet-Regí. ADVANCED DRUG DELIVERY VECTORS WITH TAILORED SURFACE PROPERTIES MADE OF MESOPOROUS BINARY OXIDES SUBMICRONIC SPHERES. *Chem. Mater.* 22, 1821-1830 (2010).
527. M. Vallet-Regí. EVOLUTION OF BIOCERAMICS WITHIN THE FIELD OF BIOMATERIALS. *C. R. Chimie*. 13, 174-185 (2010).
528. A. Nieto, M. Colilla, F. Balas, M. Vallet-Regí. SURFACE ELECTROCHEMISTRY OF MESOPOROUS SILICAS AS KEY FACTOR FOR THE DESIGN OF TAILORED DELIVERY DEVICES. *Langmuir*. 26(7), 5038–5049 (2010).
529. M. Vallet-Regí, M. Manzano, J.M. González-Calbet and E. Okunishid. EVIDENCE OF DRUGS CONFINEMENT INTO SILICA MESOPOROUS MATRICES BY STEM CS CORRECTED MICROSCOPY. *Chem. Commun.* 46, 46, 2956 - 2958 (2010)
530. A.L. Doadrio, J.C. Doadrio, J.M Sánchez-Montero, A.J. Salinas, M. Vallet Regí. A RATIONAL EXPLANATION OF THE VANCOMYCIN RELEASE FROM MESOPOROUS MATERIALS BY MOLECULAR MODELLING. *Micropor. Mesopor. Mater.* 132, 559-566 (2010)
531. I. Izquierdo-Barba, M. Colilla, M. Manzano and M. Vallet-Regí. IN VITRO STABILITY OF SBA-15 UNDER PHYSIOLOGICAL CONDITIONS. *Micropor. Mesopor. Mater.* 132, 442-452 (2010)
532. Daniel Arcos and M. Vallet-Regí. SOL-GEL SILICA BASED BIOMATERIALS AND BONE TISSUE REGENERATION. *Acta Biomaterialia*. 6, 2874-2888 (2010).
533. M. Manzano, M. Vallet-Regí. NEW DEVELOPMENTS IN ORDERED MESOPOROUS MATERIALS FOR DRUG DELIVERY. *J. Mater. Chem.* 20, 5593-5604 (2010).
534. J. Klesing, S. Chernousova, A. Kovtun, S. Neumann, L. Ruiz, J. M. Gonzalez-Calbet, M. Vallet-Regí, R. Heumann, M. Epple. AN INJECTABLE PASTE OF CALCIUM PHOSPHATE NANORODS, FUNCTIONALIZED WITH NUCLEIC ACIDS, FOR CELL TRANSFECTION AND GENE SILENCING. *J. Mater. Chem.* 20, 6144–6148 (2010).
535. A. López-Noriega, D. Arcos, M. Vallet-Regí. FUNCTIONALIZING MESOPOROUS BIOGLASSES FOR LONG TERM ANTI-OSTEOPOROTIC DRUG DELIVERY. *Chem. Eur. J.* 16, 10879-10886 (2010).
536. C. G Trejo, D. Lozano, M. Manzano, J. C Doadrio, A.J Salinas, S. Dapia, E. Gomez-Barrena, M. Vallet-Regí, N. Garcia-Honduvilla, J. Bujan, P. Esbrit. THE OSTEOINDUCTIVE PROPERTIES OF MESOPOROUS SILICATE COATED WITH OSTEOSTATIN IN A RABBIT FEMUR CAVITY DEFECT MODEL. *Biomaterials*. 31, 8564-8573. (2010).
537. S. Sánchez-Salcedo, M. Vila, I. Izquierdo-Barba, M. Cicuéndez, M. Vallet-Regí. BIOPOLYMER-COATED HYDROXYAPATITE FOAMS: A NEW ANTIDOTE FOR HEAVY METAL INTOXICATION. *J. Mater. Chem.* 20, 6956-6961 (2010).
538. M. Alcaide, M.C. Serrano, P. Portolés, J. Román, M.V. Cabañas, J. Peña, E. Sánchez-Zapardiel, M. Vallet-Regí and M. Teresa Portoles. SUPPRESSION OF ANOIKIS BY COLLAGEN COATING OF INTERCONNECTED MACROPOROUS NANOMETRIC CARBONATED HYDROXYAPATITE/AGAROSE SCAFFOLDS. *J. Biomed. Mater. Res.* 95, 793-800 (2010).
539. R. Cortés-Gil, J. M. Alonso, J.M. Rojo, A. Hernando, M. Vallet-Regí, M. L. Ruiz-González and J. M. González-Calbet. HOLE AND ELECTRON ATTRACTOR MODEL: AN EXPLANATION OF CLUSTERED STATES IN MANGANITES. *Prog. Solid State Ch.* 38, 38-45 (2010).
540. M. Colilla, I. Izquierdo-Barba, S. Sánchez-Salcedo, J.L.G. Fierro, J.L. Hueso, M. Vallet-Regí. SYNTHESIS AND CHARACTERIZATION OF ZWITTERIONIC SBA-15 NANOSTRUCTURED MATERIALS. *Chem. Mater.* 22, 6459–6466 (2010).

541. P.N. Gunawidjaja, A.Y. H. Lo, I. Izquierdo-Barba, A. García, D.Arcos, B.Stevensson, J. Grins, M.Vallet-Regí and M. Edén. BIOMIMETIC APATITE MINERALIZATION MECHANISMS OF MESOPOROUS BIOACTIVE GLASSES AS PROBED BY MULTINUCLEAR (^{31}P , ^{29}Si , ^{23}Na , ^{13}C) SOLID STATE NMR. *J. Phys. Chem. C* 114, 19345-19356 (2010).
542. F.M Martín-Saavedra, E. Ruíz-Hernández, A. Boré, D. Arcos, M. Vallet-Regí, Nuria Vilaboa. MAGNETIC MESOPOROUS SILICA SPHERES FOR HYPERTHERMIA THERAPY. *Acta Biomaterialia*. 4522–4531 (2010).
543. M. Colilla, I. Izquierdo-Barba and M. Vallet-Regí. PHOSPHORUS-CONTAINING SBA-15 MATERIALS AS BIPHOSPHONATE CARRIERS FOR OSTEOPOROSIS TREATMENT. *Micropor. Mesopor. Mater.* 135, 51-59 (2010).
544. M. Alcaide, P. Portolés, A. López-Noriega, D. Arcos, M. Vallet-Regí and M. Teresa Portoles. INTERACTION OF AN ORDERED MESOPOROUS BIOACTIVE GLASS WITH OSTEOBLASTS, FIBROBLASTS AND LYMPHOCYTES DEMONSTRATES ITS BIOCOMPATIBILITY AS A POTENTIAL BONE GRAFT MATERIAL. *Acta Biomaterialia*. 6, 892–899 (2010).
545. M. Vila, I. Izquierdo-Barba, A. Bourgeois and M. Vallet-Regí. BIMODAL MESO/MACRO POROUS HYDROXYAPATITE COATINGS. *J Sol-Gel Sci Technol* 57, 109–113 (2011)
546. A. García, I. Izquierdo-Barba, M. Colilla, C. López de Laorden and M. Vallet-Regí. PREPARATION OF 3D SCAFFOLDS IN THE $\text{SiO}_2\text{-P}_2\text{O}_5$ SYSTEM WITH TAILORED HIERARCHICAL MESO-MACROPOROSITY. *Acta Biomaterialia* 7, 1265–1273 (2011).
547. M.C. Serrano, P. Pagani, J. Peña, M. Vallet-Regí, J.V. Comas and M. Teresa Portoles. PROGENITOR-DERIVED ENDOTHELIAL CELL RESPONSE, PLATELET REACTIVITY, AND HEMOCOMPATIBILITY PARAMETERS INDICATE THE POTENTIAL OF NaOH -TREATED POLYCAPROLACTONE FOR VASCULAR TISSUE ENGINEERING. *J Tissue Eng. Regen. Med.* 5, 238–247 (2011).
548. E. Ruiz-Hernández, A. Baeza, M. Vallet-Regí. SMART DRUG DELIVERY THROUGH DNA/MAGNETIC NANOPARTICLE GATES. *ACS Nano*. 5 (2), 1259–1266 (2011).
549. R. Cortés-Gil, M. L. Ruiz-González J. M. Alonso, M. García-Hernández, A. Hernando, M. Vallet-Regí, and J. M. González-Calbet. MAGNETORESISTANCE IN $\text{La}_{0.5}\text{Sr}_{0.5}\text{MnO}_{2.5}$. *Chem. Eur. J.* 7, 2709-2715 (2011).
550. B. González, E. Ruiz, M.J. Feito, C. López, D. Arcos, C. Ramírez, C. Matesanz, M.T. Portolés, M. Vallet-Regí. COVALENTLY BONDED DENDRIMER-MAGHEMITE NANOSYSTEMS: NONVIRAL VECTORS FOR IN VITRO GENE MAGNETOFECTION. *J. Mater. Chem.* 21 (12), 4598-4604 (2011).
551. M.J. Feito, R.M. Lozano, M. Alcaide, C. Ramírez, D. Arcos, M. Vallet-Regí, M.T. Portolés. IMMOBILIZATION AND BIOACTIVITY EVALUATION OF FGF-1 AND FGF-2 ON POWDERED SILICON-DOPED HYDROXYAPATITE AND THEIR SCAFFOLDS FOR BONE TISSUE ENGINEERING. *J. Mater. Sci. Mater. Med.* 22, 405-416 (2011).
552. I. Izquierdo-Barba, M. Vallet Regí. FASCINATING PROPERTIES OF BIOACTIVE TEMPLATED GLASSES: A NEW GENERATION OF NANOSTRUCTURED BIOCERAMICS. *Solid State Sci.* 13, 73-783 (2011).
553. J. A. Puértolas, J.L. Vellido, S.Sánchez-Salcedo, A. Nieto, E. Gómez-Barrena, M. Vallet-Regí. COMPRESSION BEHAVIOUR OF BIPHASIC CALCIUM PHOSPHATE AND BIPHASIC CALCIUM PHOSPHATE/AGAROSE SCAFFOLDS FOR BONE REGENERATION. *Acta Biomaterialia*. 7, 841-847 (2011).
554. D. Arcos, M. Vila, A. López-Noriega, F. Rossignol, E. Champion, F.J. Oliveira, M. Vallet Regí. MESOPOROUS BIOACTIVE GLASSES: MECHANICAL REINFORCEMENT BY MEANS OF A BIOMIMETIC PROCESS. *Acta Biomaterialia*. 7, 2952–2959 (2011).
555. I. Izquierdo, S. Sánchez, M. Colilla, M.J. Feito, C. Ramírez, M.T. Portolés, M. Vallet-Regí. INHIBITION OF BACTERIAL ADHESION ON BIOCOMPATIBLE ZWITTERIONIC SBA-15 MESOPOROUS MATERIALS. *Acta Biomaterialia*. 7, 2977–2985 (2011).

556. M. Vila, S. Sánchez-Salcedo, M. Cicuéndez, I. Izquierdo-Barba, M. Vallet-Regí. NOVEL BIOPOLYMER-COATED HYDROXYAPATITE FOAMS FOR REMOVING HEAVY-METALS FROM POLLUTED WATER. *J. Hazard. Mater.* 192, 71-77 (2011).
557. J. Román, M. V. Cabañas, J. Peña, M. Vallet-Regí. CONTROL OF THE PORE ARCHITECTURE IN THREE-DIMENSIONAL HYDROXYAPATITE-REINFORCED HYDROGEL SCAFFOLDS. *Sci. Technol. Adv. Mater.* 12, 045003 (2011).
558. A. Salinas, S. Shrutli, G. Malavasi, L. Menabue, M. Cristina, M. Vallet-Regí. SUBSTITUTIONS OF CERIUM, GALLIUM AND ZINC IN ORDERED MESOPOROUS BIOACTIVE GLASSES. *Acta Biomaterialia*. 7, 3452-3458 (2011).
559. M. Manzano, D. Lozano, D. Arcos, S. Portal-Nuñez, C. López, P. Esbrit, M. Vallet-Regí. COMPARISON OF THE OSTEOBLASTIC ACTIVITY CONFERRED TO SI-DOPED HYDROXYAPATITE SCAFFOLDS BY DIFFERENT OSTEOSTATIN COATING. *Acta Biomaterialia*. 7, 3555-3562 (2011).
560. R. Mathew, P.N. Gunawidjaja, I. Izquierdo-Barba, A. García, D. Arcos, M. Vallet-Regí and M. Edén. SOLID-STATE ³¹P AND ¹H NMR INVESTIGATIONS OF AMORPHOUS AND CRYSTALLINE CALCIUM PHOSPHATES GROWN BIOMIMETICALLY FROM A MESOPOROUS BIOACTIVE GLASS. *J. Phys. Chem. C*. 115, 20572-20582 (2011).
561. M. Vallet-Regí and E. Ruiz-Hernández. BIOCERAMICS: FROM BONE REGENERATION TO CANCER NANOMEDICINE. *Adv. Mater.* 23, 5177–5218. (2011)
562. M. Vallet-Regí, M. Colilla and B. González. MEDICAL APPLICATIONS OF ORGANIC-INORGANIC HYBRID MATERIALS WITHIN THE FIELD OF SILICA-BASED BIOCERAMICS. *Chem. Soc. Rev.* 70, 596-607 (2011)
563. M. Manzano, G. Lamberti, I. Galdi, M. Vallet-Regí. ANTI-OSTEOPOROTIC DRUG RELEASE FROM ORDERED MESOPOROUS BIOCERAMICS: EXPERIMENTS AND MODELING. *AAPS-PharmSciTech*. 12 (4) 1193-1199 (2011).
564. M. Vallet-Regí, E. Ruiz-Hernández, B. González, A. Baeza. DESIGN OF SMART NANOMATERIALS FOR DRUG AND GENE DELIVERY. *J. Biomater. Tissue. Eng.* 1, 6-29 (2011).
565. D. Arcos, V. Fal-Miyar, E. Ruiz-Hernández, M. García-Hernández, M. L. Ruiz-González, J. G. Calbet and M. Vallet-Regí. SUPRAMOLECULAR MECHANISMS IN THE SYNTHESIS OF MESOPOROUS MAGNETIC NANOSPHERES FOR HYPERTHERMIA. *J. Mater. Chem.* 24, 64-72 (2012).
566. P.N. Gunawidjaja, R. Mathew, A. Y.H. Lo, I. Izquierdo-Barba, A. García, D. Arcos, M. Vallet-Regí and M. Edén. LOCAL STRUCTURES OF MESOPOROUS BIOACTIVE GLASSES AND THEIR SURFACE ALTERATIONS IN VITRO: INFERENCES FROM SOLID-STATE NMR. *Phil. Trans. R. Soc. A*. 370, 1376-1399 (2012).
567. M. Vallet-Regí, I. Izquierdo-Barba, M. Colilla. STRUCTURE AND FUNCTIONALISATION OF MESOPOROUS BIOCERAMICS FOR BONE TISSUE REGENERATION AND LOCAL DRUG DELIVERY. *Phil. Trans. R. Soc. A*. 370, 1400–1421 (2012).
568. J.A. Puértolas, J.L. Vadillo, S. Sánchez-Salcedo, A. Nieto, E. Gómez-Barrena, M. Vallet-Regí. MULLINS EFFECT BEHAVIOR UNDER COMPRESSION IN MICELLE-TEMPLATED SILICA AND MICELLE-TEMPLATED SILICA/AGAROSE SYSTEMS. *J. Mater. Sci. Mater. Med.* 23, 229–238 (2012).
569. P.N. Gunawidjaja, I. Izquierdo-Barba, R. Mathew, K. Jansson, A. García, J. Grins, D. Arcos, M. Vallet-Regí and M. Edén. QUANTIFYING APATITE FORMATION AND CATION LEACHING FROM MESOPOROUS BIOACTIVE GLASSES IN VITRO: A SEM, SOLID-STATE NMR AND POWDER XRD STUDY. *J. Mater. Chem.* 22 (15), 7214–7223 (2012).
570. M.C. Matesanz, M. J. Feito, C. Ramírez, R. M. Lozano, S. Sánchez, D. Arcos, M. Vallet-Regí, M.T. Portolés. SIGNALING PATHWAYS OF IMMOBILIZED FGF-2 ON SILICON-SUBSTITUTED HYDROXYAPATITE. *Macromol. Biosci.* 12, 446–453 (2012).
571. D. Lozano, C.G. Trejo, E. Gómez-Barrena, M. Manzano, J.C. Doadrio, A.J. Salinas, M. Vallet-Regí, N. García-Honduvilla, P. Esbrit, J. Buján. OSTEOSTATIN LOADED ONTO A MESOPOROUS CERAMICS IMPROVES THE EARLY PHASE OF BONE HEALING IN A RABBIT OSTEOPENIA MODEL. *Acta Biomaterialia*. 8, 2317-2323 (2012).

572. M. Vila, T. Fernández, B. González and María Vallet-Regí. MACROPOROUS SOL-GEL HYDROXYAPATITE MOULDING VIA CONFINEMENT INTO SHAPED ACRYLATE-ACRYLAMIDE COPOLYMERS. *J. Eur. Ceram. Soc.* 32, 2121-2127 (2012).
573. A. Baeza, E. Guisasola, E. Ruiz-Hernández and M. Vallet-Regí. MAGNETICALLY TRIGGERED MULTI-DRUG RELEASE BY HYBRID MESOPOROUS SILICA NANOPARTICLES. *Chem. Mater.* 24, 517-524 (2012).
574. S. Shruti, A J. Salinas, G. Malavasi, G. Lusvardi, L. Menabue, C.Ferrara, P. Mustarelli, M. Vallet-Regí. STRUCTURAL AND IN VITRO STUDY OF CERIUM, GALLIUM AND ZINC CONTAINING SOL-GEL BIOACTIVE GLASSES. *J. Mater. Chem.* 22, 13698-13706 (2012).
575. M.Cicuéndez, I.Izquierdo-Barba, S.Sánchez-Salcedo, M. Vila, M.Vallet-Regí. BIOLOGICAL PERFORMANCE OF HYDROXYAPATITE -BIOPOLYMER FOAMS: IN VITRO CELL RESPONSE. *Acta Biomaterialia.* 8, 802-810 (2012).
576. D. Lozano, M.J. Feito, S. Portal-Núñez, R.M. Lozano, M. C. Matesanz, M. C. Serrano, M. Vallet-Regí, M.T. Portolés, P. Esbrit. OSTEOSTATIN IMPROVES THE OSTEOGENIC ACTIVITY OF FIBROBLAST GROWTH FACTOR-2 IMMOBILIZED ON SI-DOPED HYDROXYAPATITE IN OSTEOBLASTIC CELLS. *Acta Biomaterialia.* 8, 2770-2777 (2012).
577. M. Manzano, M. Vallet-Regí. REVISITING BIOCERAMICS: BONE REGENERATIVE AND LOCAL DRUG DELIVERY SYSTEMS. *Prog. Solid State Ch.* 40, 17-30 (2012).
578. D. Molina-Manso, M. Manzano, J.C. Doadrio, G. Del Prado, A. Ortiz-Pérez, M. Vallet-Regí, E. Gómez-Barrena, J. Esteban. USEFULNESS OF SBA-15 MESOPOROUS CERAMICS AS A DELIVERY SYSTEM FOR VANCOMYCIN, RIFAMPIN AND LINEZOLID. *Int. J. Antimicrob. Ag.*, 40, 252-256 (2012).
579. J. Gil-Albarova, M. Vila, J. Badiola-Vargas, S. Sánchez-Salcedo, A. Herrera, M. Vallet-Regí. IN VIVO OSTEOINTEGRATION OF THREE-DIMENSIONAL CROSSLINKED GELATIN-COATED HYDROXYAPATITE FOAMS. *Acta Biomaterialia.* 8, 3777-3783 (2012).
580. M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES: THEIR PROJECTION IN NANOMEDICINE. *ISRN Mater. Sci.* Volume 2012, 20 pages doi. 105402/2012/6085048 (2012).
581. J. Simchenn, A. Baeza, D. Ruiz, M. Esplandiú, M. Vallet-Regí. ASYMMETRIC HYBRID SILICA NANOMOTORS FOR CAPTURE AND CARGO TRANSPORT: TOWARDS A NOVEL MOTION-BASED DNA SENSOR. *Small.* 8(13), 2053-2059 (2012).
582. M.Vila, M.T.Portolés, P.A. Marques, M.J.Feito, M.C.Matesanz, C.Ramírez-Santillán, G. Gonçalves, S.M.A. Cruz, A.Nieto-Peña, M.Vallet-Regí. CELL UPTAKE SURVEY OF PEGYLATED NANO GRAPHENE OXIDE. *Nanotechnology* 23, 465103 (2012).
583. M. Cicuendez, M. Portoles, I. Izquierdo-Barba, M. Vallet-Regí. NEW NANOCOMPOSITE SYSTEM WITH NANOCRYSTALLINE APATITE EMBEDDED INTO MESOPOROUS BIOACTIVE GLASS. *Chem. Mater.* 24, 1100-1106 (2012).
584. M. Alcaide, C. Ramírez-Santillán, M.J. Feito, M.C. Matesanz, E. Ruiz-Hernández, D. Arcos, M. Vallet-Regí, M.T. Portolés. IN VITRO EVALUATION OF GLASS-GLASS CERAMIC THERMOSEED INDUCED HYPERTHERMIA ON HUMAN OSTEOSARCOMA CELL LINE. *J. Biomed. Mater. Res. A.* 100, 64-71 (2012).
585. M. Vila, M. Cicuéndez, J. Sánchez-Marcos, V. Fal-Miyar, M. Manzano, C. Prieto, M. Vallet-Regí. ELECTRICAL STIMULI TO INCREASE CELL PROLIFERATION ON CARBON NANOTUBES/MESOPOROUS SILICA COMPOSITES FOR DRUG DELIVERY. *J. Biomed. Res part A.* 101, 213-221 (2012).
586. M. Vila, S. Sánchez, M. Vallet-Regí. HYDROXYAPATITE FOAMS FOR THE IMMOBILIZATION OF HEAVY METALS: FROM WATERS TO THE HUMAN BODY. *Inorganica Chimica Acta.* 393, 24-35 (2012).
587. S. Shruti, A J. Salinas, G. Lusvardi, G. Malavasi, L. Menabue, M. Vallet-Regí. MESOPOROUS BIOACTIVE SCAFFOLDS PREPARED WITH CERIUM, GALLIUM AND ZINC CONTAINING GLASSES. *Acta Biomaterialia.* 9, 4836-4844 (2013).

588. A. Salinas, P. Esbrit, M. Vallet-Regí. A TISSUE ENGINEERING APPROACH BASED ON THE USE OF BIOCERAMICS FOR BONE REPAIR. *Biomater. Sci.* 1, 40-51 (2013).
589. M.C.Matesanz, M.Vila, M.J.Feito, J.Linares, G.Gonçalves, M.Vallet-Regi, P.A.A.P.Marques, M.T.Portolés. THE EFFECTS OF GRAPHENE OXIDE NANOSHEETS LOCALIZED ON F-ACTIN FILAMENTS ON CELL-CYCLE ALTERATIONS. *Biomaterials.* 34, 1562-1569 (2013).
590. M. Colilla, B. González, M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES FOR THE DESIGN OF SMART DELIVERY NANODEVICES. *Biomater. Sci.* 1, 114-134 (2013)
591. D. Arcos, M. Vallet-Regí. BIOCERAMICS FOR DRUG DELIVERY. *Acta Materialia.* 61, 890-911 (2013).
592. S. Sánchez-Salcedo, M. Colilla, I. Izquierdo and M. Vallet-Regí. DESIGN AND PREPARATION OF BIOCOMPATIBLE ZWITTERIONIC HYDROXYAPATITE. *J. Mater. Chem. B*, 1, 1595-1606 (2013).
593. M. Cicuéndez, I. Izquierdo, M.T. Portolés and María Vallet-Regí. BIOCOMPATIBILITY AND LEVOFLOXACIN DELIVERY OF MESOPOROUS MATERIALS. *Eur. J. Pharm. Biopharm.* 84, 115-124 (2013).
594. A. J. Salinas, M. Vallet-Regí. BIOACTIVE CERAMICS: FROM BONE GRAFTS TO TISSUE ENGINEERING. *RSC Adv.* 3 (28), 11116 – 11131 (2013).
595. N. Knezevic, E. Ruiz-Hernández, W. Hennink and M. Vallet-Regí. MAGNETIC MESOPOROUS SILICA-BASED CORE/SHELL NANOPARTICLES FOR BIOMEDICAL APPLICATIONS. *RSC Advan.* , 3, 9584-9593 (2013).
596. I.Izquierdo, A.J. Salinas, M. Vallet-Regí. BIOACTIVE GLASSES: FROM MACRO TO NANO. *Int. J. Appl. Glass Sci.* 4, 149-161 (2013)
597. R. Mathew, C. Turdean-Ionescu, I. Izquierdo-Barba, A. García, D. Arcos, M. Vallet-Regí and M. Edén. DIRECT PROBING OF THE SPATIAL DISTRIBUTION OF PHOSPHATE IONS IN BIOACTIVE SILICATE GLASSES BY SOLID-STATE NMR. *Chem. Mater.* 25, 1877-1885 (2013).
598. S. Shruti, A. J. Salinas, E. Ferrari, G. Malavasi, G. Lusvardi, A.L. Doadrio, L. Menabue, M. Vallet-Regí. CURCUMIN RELEASE FROM CERIUM, GALLIUM AND ZINC CONTAINING MESOPOROUS BIOACTIVE GLASSES. *Micropo. Mesopor. Mat.* 180, 92-101 (2013).
599. G. Malavasi, L. Menabue, M.C.Menziani, A. Pedone, A.J. Salinas and M. Vallet-Regí. NEW INSIGHTS INTO THE BIOACTIVITY OF SiO_2 -CAO AND SiO_2 -CAO- P_2O_5 SOL-GEL GLASSES BY MOLECULAR DYNAMICS SIMULATIONS. *J. Sol-gel Sci. technol.* 67, 208-219 (2013).
600. A. García, A. Nieto, M. Vila, M. Vallet-Regí. EASY SYNTHESIS OF ORDERED MESOPOROUS CARBON CONTAINING NICKEL NANOPARTICLES BY A LOW TEMPERATURE HYDROTHERMAL METHOD. *Carbon.* 51, 410-418 (2013).
601. B. González, M. Colilla, M. Vallet-Regí. DESIGN OF IN VITRO BIOACTIVE HYBRID MATERIALS FROM THE FIRST GENERATION OF AMINE DENDRIMERS AS NANOBUILDING-BLOCKS. *Chem. Eur. J.* 19, 4883-4895 (2013).
602. A. Baeza, D. Arcos, M. Vallet-Regí. THERMOSEEDS FOR INTERSTITIAL MAGNETIC HYPERTHERMIA: FROM BIOCERAMICS TO NANOPARTICLES. *J. Phys. Condens. Matter.* 25, 484003 (2013)
603. R. Cortes-Gil, M.L. Ruiz-Gonzalez, J.M. Alonso, J.L. Martínez, A. Hernando, J.M. Gonzalez-Calbet and M. Vallet-Regí. A SURPRISING RESISTIVITY DECREASE IN MANGANITES WITH CONSTANT ELECTRONIC DENSITY. *J. Phys. Condens. Matter.* 25, 484002 (2013).
604. O. Prymak, S. Ristig, W. Meyer-Zaika, A. Rostek, L. Ruiz, J.M. Gonzalez-Calbet, M. Vallet-Regí, M. Epple. X-RAY POWDER DIFFRACTION AS A TOOL TO INVESTIGATE THE ULTRASTRUCTURE OF NANOPARTICLES. *Russ. Phys. J.* 10, 5-9 (2013).
605. G. Gonçalves, M. Vila, M.T. Portolés, M. Vallet-Regí, A.P. Serro, J. Grácio, P. Alexandrina, A. P. Marques. NANO-GRAPHENE OXIDE: A POTENTIAL MULTIFUNCTIONAL PLATFORM FOR CANCER THERAPY. *Adv. Healthcare Mater.* 2, 1072-1090 (2013).

606. E. Alvarez, A. Garcia Marquez, T. Devic, N. Steunou, C. Serre, C. Bonhomme, C. Gervais, I. Izquierdo-Barba, M. Vallet-Regí, D. Laurencin, F. Mauri, and P. Horcajada. A BIOCOMPATIBLE CALCIUM BISPHOSPHONATE COORDINATION POLYMER: TOWARDS A METAL-LINKER SYNERGISTIC THERAPEUTIC EFFECT? *Cryst. Eng. Comm.* 15, 9899-9905 (2013).
607. G. Gonçalves, M.T.Portolés, C.Ramírez-Santillán, M.Vallet-Regí, A.P.Serro, J.Grácio y P.A.Marques. EVALUATION OF THE IN VITRO BIOCOMPATIBILITY OF PMMA/HIGH-LOAD HA/CARBON NANOSTRUCTURES BONE CEMENT FORMULATIONS. *J. Mater. Sci. Mater. Med.* 24, 2787-2796 (2013).
608. L. Meseguer, V. Vicente, M. Alcaraz, J.L.Calvo, M. Vallet-Regí, D. Arcos, A. Baeza. IN VIVO BEHAVIOR OF SI-HYDROXYAPATITE/POLYCAPROLACTONE/DMB SCAFFOLDS FABRICATED BY 3D PRINTING. *J. Biomed. Mater. Res. A.* 101, 2038-2048 (2013).
609. M. Vila, M. Cicuendez, J. Sanchez-Marcos, V. Fal-Miyar, M. Manzano, C. Prieto, M. Vallet-Regí. ELECTRICAL STIMULI TO INCREASE CELL PROLIFERATION ON CARBON NANOTUBES/MESOPOROUS SILICA COMPOSITES FOR DRUG DELIVERY. *J. Biomed. Mater. Res. A.* 101, 213-221 (2013).
610. M.C. Matesanz, M. J. Feito, M. Oñaderra, C. Ramírez-Santillán. C. da Casa, D. Arcos, M. Vallet-Regí, J.M. Rojo, M.T. Portolés. EARLY IN VITRO RESPONSE OF MACROPHAGES AND T LYMPHOCYTES TO NANOCRYSTALLINE HYDROXYAPATITES. *J. Colloid. Interf. Sci.* 416, 59-66 (2014).
611. M. Cicuéndez, M. Malmsten, J.C. Doadrio, M^a T. Portolés, I. Izquierdo-Barba, M. Vallet-Regí. TAILORING HIERARCHICAL MESO-MACROPOROUS 3D SCAFFOLDS: FROM NANO TO MACRO. *J. Mater. Chem. B.* 2, 49-58 (2014).
612. M. Vila, M.C. Matesanz, M.J. Gonçalves, M.J. Feito, J. Linares, P. Marques, M.T. Portoles, M. Vallet-Regí. TRIGGERING CELL DEATH BY NANOGRAPHENE OXIDE MEDIATED HYPERTHERMIA. *Nanotechnology.* 25, 035101 (2014).
613. M.V. Cabañas, J. Peña, J. Román, C. Ramírez-Santillán, M.C. Matesanz, M.J. Feito, M.T. Portolés and M. Vallet-Regí. DESIGN OF TUNABLE PROTEIN-RELEASING NANOAPATITE/HYDROGEL SCAFFOLDS FOR HARD TISSUE ENGINEERING. *Mater. Chem. Phys.* 144, 409-417 (2014).
614. K. Loza, J. Diendorf, C. Sengstock, C. Greulich, L. Ruiz-Gonzalez, J. M. Gonzalez-Calbet, M. Vallet-Regí, M. Köller, M. Epple. THE DISSOLUTION AND BIOLOGICAL EFFECT OF SILVER NANOPARTICLES IN BIOLOGICAL MEDIA. *J. Mater. Chem. B.* 2, 1634-1643 (2014).
615. D. Arcos, A.R. Boccaccini, M. Bohner, A. Díez-Pérez, M. Epple, E. Gómez-Barrena, A. Herrera, J.A. Planell, L. Rodríguez-Mañas, M. Vallet-Regí. THE RELEVANCE OF BIOMATERIALS TO THE PREVENTION AND TREATMENT OF OSTEOPOROSIS. *Acta Biomaterialia.* 1793-1805 (2014).
616. A.L. Doadrio, J. Sánchez, J.C. Doadrio, A. Salinas, M. Vallet-Regí. A MOLECULAR MODEL TO EXPLAIN THE CONTROLLED RELEASE FROM SBA-15 FUNCTIONALIZED WITH APTES. *Micropor. Mesopor. Mat.* 195, 43-49 (2014).
617. M.C. Matesanz, J. Linares, I. Lilue, S. Sánchez, M.J. Feito, D. Arcos, M. Vallet-Regí, M.T. Portolés. NANOCRYSTALLINE SILICON SUBSTITUTED HYDROXYAPATITE EFFECTS ON OSTEOCLAST DIFFERENTIATION AND RESORPTIVE ACTIVITY. *J. Mater. Chem. B.* 2, 2910-2919 (2014).
618. D. Lozano, S. Sánchez, S. Portal, M. Vila, A. López, J.A. Ardura, F. Mulero, E. Gómez, M. Vallet-Regí, P. Esbrit. PARATHYROID HORMONE-RELATED PROTEIN (107-111) IMPROVES THE BONE REGENERATION POTENTIAL OF GELATIN-GLUTARALDEHYDE BIOPOLYMER-COATED HYDROXYAPATITE. *Acta Biomaterialia.* 10, 3307-3316 (2014).
619. S. Sanchez, S. Shrutí, A. J. Salinas, G. Malavasi, L. Menabue, M. Vallet-Regí. IN VITRO ANTIBACTERIAL CAPACITY AND CYTOCOMPATIBILITY OF SIO₂-CAO-P₂O₅ MESO-MACROPOROUS GLASS SCAFFOLDS ENRICHED WITH ZNO. *J. Mater. Chem. B.* 2, 4836-4847 (2014)
620. M. Cicuéndez, P. Portolés, M. Montes, I. Izquierdo, M. Vallet-Regí, M.T. Portolés. EFFECTS OF 3D NANOCOMPOSITE BIOCERAMIC SCAFFOLDS ON THE IMMUNE RESPONSE. *J. Mater. Chem. B.* 2, 3469-3479 (2014)

621. J. Simmchen, A. Baeza, D. Ruiz and M. Vallet-Regí. IMPROVING CATALASE-BASED PROPELLED MOTOR ENDURANCE BY ENZYME ENCAPSULATION. *Nanoscale*, 6 (15), 8907- 8913 (2014).
622. M.J. Feito, M. Vila, M.C. Matesanz, J. Linares, G. Gonçalves, P.A. Marques, M. Vallet-Regí, J.M. Rojo, M.T. Portolés. IN VITRO EVALUATION OF GRAPHENE OXIDE NANOSHEETS ON IMMUNE FUNCTION. *J. Colloid Interface Sci.* 432, 221-228 (2014).
623. M. Colilla, M. Martínez, S. Sánchez, M.L. Ruiz, J.M. González-Calbet, M. Vallet-Regí. A NOVEL ZWITTERIONIC BIOCERAMIC WITH DUAL ANTIBACTERIAL CAPABILITY. *J. Mater. Chem. B* 2 (34), 5639 -5651 (2014).
624. J. Linares, M.C. Matesanz, M. Vila, M. J. Feito, G. Goncalves, M. Vallet-Regí, P.A. Marques, M.T. Portolés, . ENDOCYTIC MECHANISMS OF GRAPHENE OXIDE NANOSHEETS IN OSTEOBLASTS, HEPATOCYTES AND MACROPHAGES. *ACS Appl. Mater. Interfaces.* 6, 13697-13706 (2014).
625. A. Baeza, E. Guisasola, A. Torres-Pardo, J.M. González-Calbet, G.J. Melen, M. Ramirez, M. Vallet-Regí. HYBRID ENZYME-POLYMERIC CAPSULES/MESOPOROUS SILICA NANODEVICE FOR IN SITU CYTOTOXIC AGENT GENERATION. *Adv. Funct. Mater.* 24 (29), 4625-4633 (2014).
626. N. Mas, D. Arcos, E. Aznar, S. Sánchez, F. Sancenón, A. García, M. D. Marcos, A. Baeza, M. Vallet-Regí, and R. Martínez. TOWARDS THE DEVELOPMENT OF SMART 3D “GATED SCAFFOLDS” FOR ON-COMMAND DELIVERY. *Small.* 10 (23), 4859-4864 (2014).
627. I. Izquierdo, C. Torres, E. Matesanz and M. Vallet-Regí. NEW APPROACH TO DETERMINE THE MORPHOLOGICAL AND STRUCTURAL CHANGES IN THE ENAMEL AS CONSEQUENCE OF DENTAL BLEACHING. *Mater. Lett.* 141, 302–306 (2015).
628. F.J. Martínez-Vázquez, M.V. Cabañas, J.L. Paris, D. Lozano and M. Vallet-Regí. FABRICATION OF NOVEL SI-DOPED HYDROXYAPATITE/GELATINE SCAFFOLDS BY RAPID PROTOTYPING FOR DRUG DELIVERY AND BONE REGENERATION. *Acta Biomaterialia* 15, 200–209 (2015).
629. I. Izquierdo, J.M. García, R. Álvarez, A. Palmero, J. Esteban, C. Pérez, D. Arcos, M. Vallet-Regí. NANOCOLUMNAR COATINGS WITH SELECTIVE BEHAVIOR TOWARDS OSTEOBLAST AND STAPHYLOCOCCUS AUREUS PROLIFERATION. *Acta Biomaterialia* 15 20–28 (2015).
630. A. Baeza, M. Colilla and M. Vallet-Regí. ADVANCES IN MESOPOROUS SILICA NANOPARTICLES FOR TARGETED STIMULI-RESPONSIVE DRUG DELIVERY. *Expert Opin. Drug Del.* 12, 319-337 (2015).
631. J.L. Paris, J. Román, M. Manzano, M.V. Cabañas and M. Vallet-Regí. TUNING DUAL-DRUG RELEASE FROM COMPOSITE SCAFFOLDS FOR BONE REGENERATION. *Int. J. Pharmaceut.* 486, 30-37 (2015).
632. N. Gómez, I. Izquierdo, D. Arcos and M. Vallet-Regí. TAILORING THE BIOLOGICAL RESPONSE OF MESOPOROUS BIOACTIVE MATERIALS. *J. Mater. Chem. B.* 3, 3810-3819 (2015).
633. M.C. Matesanz, J. Linares, M. Oñaderra, M.J. Feito, F.J. Martínez, D. Arcos, S. Sánchez, M.T. Portolés and M. Vallet-Regí. RESPONSE OF OSTEOBLASTS AND PREOSTEOBLASTS TO CALCIUM DEFICIENT AND SI SUBSTITUTED HYDROXYAPATITES TREATED AT DIFFERENT TEMPERATURES. *Colloid Surface B.* 133 304–313 (2015).
634. A.L. Macon, T.B. Kim, E.M. Valliant, K. Goetschius, R.K. Brow, D.E. Day, A. Hoppe, A.R. Boccaccini, I. Yong Kim, C. Ohtsuki, T. Kokubo, A. Osaka, M. Vallet-Regí, D. Arcos, L. Fraile, A. J. Salinas, A. V. Teixeira, Y. Vueva, R.M. Almeida, M. Miola, C. Vitale, E. Verne, W. Land, J.R. Jones. A UNIFIED IN VITRO EVALUATION FOR APATITE-FORMING ABILITY OF BIOACTIVE GLASSES AND THEIR VARIANTS. *J. Mater. Sci. Mater. Med.* 26, 115 (2015).
635. M. Martínez, A. Baeza, M.A. Rodríguez, J. García and M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES GRAFTED WITH LIGHT-RESPONSIVE PROTEIN SHELL FOR HIGHLY CYTOTOXIC ANTITUMORAL THERAPY. *J. Mater. Chem. B.* 3, 5746-5752 (2015).
636. A. Martínez, E. Fuentes, A. Baeza, J. Sánchez, M. Cicuendez, R. Gómez, F.J. de la Mata, B. González, M. Vallet Regí. MESOPOROUS SILICA NANOPARTICLES DECORATED WITH CARBOSILANE DENDRONS AS NOVEL NONVIRAL OLIGONUCLEOTIDES DELIVERY CARRIERS. *Chem. Eur. J.* 21, 15651–15666 (2015).

637. M. Martínez, M. Colilla, M. Vallet-Regí. SMART MESOPOROUS NANOMATERIALS FOR ANTITUMOR THERAPY. *Nanomaterials*. 5, 1906-1937 (2015).
638. A. L. Doadrio, A. J. Salinas, J. M. Sánchez-Montero, M. Vallet-Regí. DRUG RELEASE FROM ORDERED MESOPOROUS SILICAS. *Curr. Pharm. Design*, 21, 6189-6213 (2015).
639. J.L. Paris, M. Cabañas, M. Manzano, M. Vallet-Regí. POLYMER-GRAFTED MESOPOROUS SILICA NANOPARTICLES AS ULTRASOUND-RESPONSIVE DRUG CARRIERS. *ACS Nano*. 9 (11) 11023-11033 (2015).
640. A Baeza, M Vallet-Regí. SMART MESOPOROUS SILICA NANOCARRIERS FOR ANTITUMORAL THERAPY. *Curr. Top. Med. Chem.* 15 (22), 2306-2315 (2015).
641. I. Izquierdo, M. Vallet-Regí. MESOPOROUS BIOACTIVE GLASSES: RELEVANCE OF THEIR POROUS STRUCTURE COMPARED TO THAT OF CLASSICAL BIOGLASSES. *Biomed. Glasses*. 1, 140–150 (2015).
642. C. Turdean-Ionescu, B. Stevansson, J. Grins, I. Izquierdo-Barba, A. García, D. Arcos, M.Vallet-Regí, and M. Eden. COMPOSITION-DEPENDENT IN VITRO APATITE FORMATION AT MESOPOROUS BIOACTIVE GLASS-SURFACES QUANTIFIED BY SOLID-STATE NMR AND POWDER XRD. *RSC Adv*. 5, 86061–86071 (2015).
643. M.R. Villegas, A.Baeza, M. Vallet Regí. HYBRID COLLAGENASE NANOCAPSULES FOR ENHANCED NANOCARRIER PENETRATION IN TUMORAL TISSUES. *ACS Appl. Mater. Inter.* 7, 24075-24081 (2015).
644. A.L. Doadrio, A. Conde, M.A. Arenas, J.M. Hernández-López, J.J. de Damborenea, C. Pérez-Jorge, J. Esteban, M. Vallet-Regí. USE OF ANODIZED TITANIUM ALLOY AS DRUG CARRIER: IBUPROFEN AS MODEL OF DRUG RELEASING. *Int. J. Pharmaceut.* 492, 207-212 (2015).
645. E. Guisasola, A. Baeza, M. Talelli, D. Arcos, M.; Moros, J. De La Fuente, M. Vallet-Regí. MAGNETIC-RESPONSIVE RELEASE CONTROLLED BY HOT SPOT EFFECT. *Lagmuir*. 31, 12777-12782 (2015).
646. G. Villaverde, A. Baeza, G.J. Melen, A. Alfranca, M. Ramirez and M. Vallet-Regí. NEW TARGETING AGENT IN SELECTIVE DRUG DELIVERY NANOCARRIERS FOR TREATING NEUROBLASTOMA. *J. Mater. Chem. B*. 3, 4831-4842 (2015).
647. M. Martínez, M. Colilla, M.L. Ruiz, J.M. González-Calbet, M. Vallet-Regí. HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPY: A KEY TOOL TO UNDERSTAND DRUG RELEASE FROM MESOPOROUS MATRICES. *Micropor. Mesopor. Mat.* 225, 399-410 (2016).
648. S. Sánchez, M. Colilla, I. Izquierdo and M. Vallet-Regí. PREVENTING BACTERIAL ADHESION ON SCAFFOLDS FOR BONE TISSUE ENGINEERING. *Int. J. Bioprinting*. 2(1), 20–34 (2016).
649. A.J. Salinas, M. Vallet-Regí. GLASSES IN BONE REGENERATION: A MULTISCALE ISSUE. *J. Non-Cryst. Solids*. 432, 9-14 (2016).
650. R. Díez, E. García, M. Manzano, A. Martínez, M. Domenech, M.Vallet-Regí, P. García. AURANOFIN-LOADED NANOPARTICLES AS A NEW THERAPEUTIC TOOL TO FIGHT STREPTOCOCCAL INFECTIONS. *Sci. Rep.* 6, 19525 (2016).
651. R Cortés-Gil, L. Ruiz-González, D. González-Merchante, J.M. Alonso, A. Hernando, S. Trasobares, M. Vallet-Regí, J.M. Rojo and J. M. González-Calbet. EXPERIMENTAL EVIDENCE OF THE ORIGIN OF PHASE SEPARATION IN LOW HOLE-DOPED COLOSSAL MAGNETORESISTANT MANGANITES. *Nano Letters*. 16, 760–765 (2016).
652. J.L. Paris, P. de la Torre, M. Manzano, Miguel, M. Cabañas, A. Flores, M. Vallet-Regí. DECIDUA-DERIVED MESENCHYMAL STEM CELLS AS CARRIERS OF MESOPOROUS SILICA NANOPARTICLES. IN VITRO AND IN VIVO EVALUATION ON MAMMARY TUMMORS. *Acta Biomaterialia*, 33, 275–282 (2016).
653. C. Torres, M. T. Portolés, M. C. Matesanzb, J. Linares, M. J. Feito, I. Izquierdo, P. Esbrite, M. Vallet-Regí. EFFECTS OF BLEACHING ON OSTEOCLAST ACTIVITY AND THEIR MODULATION BY OSTEOSTATIN AND FIBROBLAST GROWTH FACTOR 2. *J. Colloid Interf. Sci.* 461, 285-291 (2016).

654. J. Linares, A. Fernández, M.J. Feito, C. Matesanz, S. Sánchez, D. Arcos, M. Vallet-Regí, J. Rojo and M.T. Portolés. EFFECTS OF NANOCRYSTALLINE HYDROXYAPATITES ON MACROPHAGE POLARIZATION. *J. Mater. Chem. B*. 4, 1951-1959 (2016).
655. A. Baeza, M. Manzano, M. Colilla, M. Vallet-Regí. RECENT ADVANCES IN MESOPOROUS SILICA NANOPARTICLES FOR ANTITUMOR THERAPY: OUR CONTRIBUTION. *Biomater. Sci.* 4, 803–813 (2016).
656. S. Sánchez, M. Vila, A. Diaz, C. Acosta, I. Barton, A. Escobar, M. Vallet-Regí. SYNTHESIS OF HA/B-TCP BIOCERAMIC FOAMS FROM NATURAL PRODUCTS. *J. Sol-Gel Sci. Techn.* 9,160–166 (2016).
657. E. Guisasola, A. Baeza, M. Talelli, D. Arcos, M. Vallet-Regí. DESIGN OF THERMORESPONSIVE POLYMERIC GATES WITH OPPOSITE DRUG DELIVERY BEHAVIORS. *RSC Adv.* 6, 42510-42516 (2016).
658. M. Martínez, D. Lozano, M. Colilla, M. Vallet-Regí. SELECTIVE TOPOTECAN DELIVERY TO CANCER CELLS BY TARGETED PH-SENSITIVE MESOPOROUS SILICA NANOPARTICLES. *RSC Adv.*, 6, 50923–50932 (2016).
659. M. Vallet-Regí, A. Salinas, D. Arcos. TAILORING THE STRUCTURE OF BIOACTIVE GLASSES: FROM THE NANOSCALE TO MACROPOROUS SCAFFOLDS. *Int. J. Appl. Glass Sci.* DOI: 10.1111/ijag.12205. En Prensa.
660. C. Turdean-Ionescu, B. Stevansson, I. Izquierdo, Ana Garcia, D. Arcos, M. Vallet-Regí, M. Edén. SURFACE REACTIONS OF MESOPOROUS BIOACTIVE GLASSES MONITORED BY SOLID-STATE NMR: CONCENTRATION EFFECTS IN SIMULATED BODY FLUID. *J. Phys. Chem. C*. In press.
661. J.A. Ardura, S. Portal, D.I Lozano, I. Gutiérrez, S. Sánchez, A. López, R. Soriano, E. Torres del Pliego, F. Mulero, A. Díez Perez, M.L. Villanueva, M. Vallet-Regí, P. Esbrit. LOCAL DELIVERY OF PARATHYROID HORMONE-RELATED PROTEIN-DERIVED PEPTIDES COATED ONTO A HYDROXYAPATITE-BASED IMPLANT ENHANCES BONE REGENERATION IN OLD DIABETIC RATS *J. Biomed. Mater. Res. A*. doi: 10.1002/jbm.a.35742. In press.
662. E.M. Gonçalves, F.J. Oliveira, R.F. Silva, M. A. Neto, M.H. Fernandes, M. Amaral, M. Vallet-Regí, M. Vila. THREE-DIMENSIONAL PRINTED PCL-HYDROXYAPATITE SCAFFOLDS FILLED WITH CNTS FOR BONE CELL GROWTH STIMULATION. *J. Biomed. Mater. Res. B*. In press.
663. I. Izquierdo, M. Colilla, M. Vallet-Regí. ZWITTERIONIC CERAMICS FOR BIOMEDICAL APPLICATIONS. *Acta Biomaterialia*. In press.
664. A. Rodríguez, D. Monopoli, H. Alonso, I. Izquierdo, V. Vallet-Regí. SURFACE ZWITTERIONIZATION OF CUSTOMER 3D Ti6Al4V SCAFFOLDS PROMISING ALTERNATIVE TO ERADICATE BONE INFECTION. *J. Mater. Chem. B*. DOI: 10.1039/C6TB00675B. In press. DOI: 10.1039/C6TB00675B.

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Professor of Inorganic Chemistry (Universidad Complutense de Madrid)
bone regeneration, materials science, drug delivery, tissue engineering
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Seguir

Título	1-20	Citado por	Año
Mesoporous materials for drug delivery	M Vallet-Regi, F Balas, D Arcos Angewandte Chemie International Edition 46 (40), 7548-7558	1530	2007
A new property of MCM-41: drug delivery system	M Vallet-Regi, A Ramila, RP Del Real, J Pérez-Pariente Chemistry of Materials 13 (2), 308-311	1370	2001
Metal-organic frameworks as efficient materials for drug delivery	P Horcajada, C Serre, M Vallet-Regi, M Sebban, F Taulelle, G Férey Angewandte chemie 118 (36), 6120-6124	958	2006
Flexible porous metal-organic frameworks for a controlled drug delivery	P Horcajada, C Serre, G Maurin, NA Ramsahye, F Balas, M Vallet-Regi, ... Journal of the American Chemical Society 130 (21), 6774-6780	755	2008
Calcium phosphates as substitution of bone tissues	M Vallet-Regi, JM González-Calbet Progress in Solid State Chemistry 32 (1), 1-31	708	2004
MCM-41 organic modification as drug delivery rate regulator	B Munoz, A Ramila, J Perez-Pariente, I Diaz, M Vallet-Regi Chemistry of Materials 15 (2), 500-503	542	2003
Influence of pore size of MCM-41 matrices on drug delivery rate	P Horcajada, A Ramila, J Perez-Pariente, M Vallet-Regi Microporous and Mesoporous Materials 68 (1), 105-109	449	2004
Ordered mesoporous materials in the context of drug delivery systems and bone tissue engineering	M Vallet-Regi Chemistry-A European Journal 12 (23), 5934-5943	389	2006
Ceramics for medical applications	M Vallet-Regi Journal of the Chemical Society, Dalton Transactions, 97-108	376	2001
Mesoporous SBA-15 HPLC evaluation for controlled gentamicin drug delivery	AL Doadrio, EMB Sousa, JC Doadrio, JP Pariente, I Izquierdo-Barba, ... Journal of Controlled Release 97 (1), 125-132	333	2004
Glasses with medical applications	M Vallet-Regi, C Ragel, AJ Salinas European Journal of Inorganic Chemistry 2003 (6), 1029-1042	325	2003
Confinement and controlled release of bisphosphonates on ordered mesoporous silica-based materials	F Balas, M Manzano, P Horcajada, M Vallet-Regi Journal of the American Chemical Society 128 (25), 8116-8117	317	2006
Sol-gel silica-based biomaterials and bone tissue regeneration	D Arcos, M Vallet-Regi Acta Biomaterialia 6 (8), 2874-2888	251	2010
Studies on MCM-41 mesoporous silica for drug delivery: effect of particle morphology and amine functionalization	M Manzano, V Aina, CO Arean, F Balas, V Cauda, M Collila, MR Delgado, ... Chemical Engineering Journal 137 (1), 30-37	246	2008
A new method to produce macropores in calcium phosphate cements	RP Del Real, JGC Wolke, M Vallet-Regi, JA Jansen Biomaterials 23 (17), 3673-3680	246	2002

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SUMMARY PUBLICATIONS ISI Knowledge 2015

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Journal of Non-Crystalline Solids	2	1.825	5/26
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Journal of Materials Research	12	1.579	85/251
Journal of sol-gel science and technology	10	1.473	3/25
Solid State Communications	5	1.458	36/67
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Microscopy Research And Technique	1	1.130	14/20
...Resto F. I. < 1	137		
Totales	619		

PATENTS AND UTILITY MODELS

Inventors (by order of signature): COLOROBIA ESPAÑA S.A. /Inorganic Chemistry Research Group of UCM and Jaume I University (Miguel Angel Jovaní, María Vallet Regí, J.B. Carda)

Title: Phosphorescent pigment, process for their preparation and their applications

Application number: 200002703/2

Priority Country: Spain-Italy **Priority date:** 10-11-2000

Holder Institution: COLOROBIA ESPAÑA S.A.

Extended Countries: European Union and Brazil

Exploiting Companies: COLOROBIA ESPAÑA S.A. (ESPAÑA)

Inventors (by order of signature): María Vallet Regí, C. Victoria Ragel, Daniel Arcos, Manuel Clavel Luis Meseguer

Title: "Method for producing bioactive implants that are used as systems for the controlled release of antibiotics"

Application number: PCT/ES2002/000301, ES2181593

Priority Country: Spain **Priority date:** 14-6-2001

Holder Institution: UCM

Extended Countries: European Union, Japan, EEUU

Exploiting Companies: UCM

Published date: 27-12-02 **Filing date:** 14-06-02

Publication number: WO2002102430-A1 **Grant date:** 12-3-04

Inventors (by order of signature): José M. Alonso, José M. González Calbet, Raquel Cortés Gil, Alfredo Arroyo, María Vallet Regí, Antonio Hernando, Miguel A. García, Javier Calvo, Jesús M. González

Title: "Device for measuring continuous magnetic fields, based on manganese mixed oxides having a perovskite structure"

Application number: PCT/ES2006/000598

Priority Country: Spain **Priority date:** 28-10-2005

Holder Institution: UCM.

Extended Countries: Spain

Exploiting Companies: UCM

Publication number: WO2007051882 A2 **Grant date:** 10-05-2007

Inventors (by order of signature): María Vallet Regí, Juan Peña López, Jesús Román Zaragoza, María Victoria Cabañas Criado

Title: Low temperature synthetic procedure for bioceramics parts designed with three dimensional porosity and interconnected

Application number: P200802813

Priority Country: Spain **Grant date:** 12-01-2011

Holder Institution: UCM

Application number: ES2333851

Extended Countries: Spain **Exploiting Companies:** UCM

International Patent Application

Publication number: WO 2010/037881 A1 **Published date:** 08-04-2010

Inventors (by order of signature): Jenny Maria Elisabet, Antonio Salinas Sánchez, María Vallet Regí.

Title: Synthetic procedure of a ceramic hybrid material nanocrystalline calcium phosphate organic-dye

Application number: P200901633

Priority Country: Spain **Priority date:** 23-07-2009

Holder Institution: UCM

Extended Countries: European Union

Exploiting Companies: UCM

Publication number: WO 2011/009980 A2 **Grant date:** 27/01/2011

Inventors (by order of signature): María Vallet Regí, Sandra Sánchez-Salcedo, Mercedes Vila, Isabel Izquierdo-Barba, Mónica Cicuéndez.

Title: Ceramic foams/polymer and its use in the capture and immobilization of toxic heavy metal ions

Application number: P201000265

Priority Country: Spain **Priority date:** 4-03-2010

Holder Institution: UCM

Extended Countries: Spain

Exploiting Companies: UCM

Publication number: ES2364911 **Grant date:** 16/09/2011

Inventors (by order of signature): Adolfo López Noriega, Carlos López de Laorden, Daniel Arcos Navarrete, María Vallet-Regí.

Title: Manufacture of three-dimensional scaffolds with mesoporous bioactive glass by rapid prototyping

Application number: P201000353

Priority Country: Spain **Priority date:** 17-03-2010

Holder Institution: UCM

Extended Countries: Spain

Holder Institution: UCM

Publication number: ES2378044 **Grant date:** 04/04/2012

Inventors (by order of signature): María Vallet-Regí, Daniel Arcos Navarrete, Alejandro Baeza

Title: Pure ceramic macroporous scaffold based on nanocrystalline apatite, preparation method and applications

Application number: P2010957

Priority Country: Spain **Priority date:** 23-07-2010

Holder Institution: UCM

Extended Countries: Spain

Exploiting Companies: UCM

Publication number: ES2373286 **Grant date:** 02/02/2012

Inventors (by order of signature): María Vallet-Regí, Antonio Jesús Salinas Sánchez, Miguel Manzano García, Juan Carlos Doadrio Villarejo, Pedro Esbrit Arguelles, María Julia Buján Varela, Enrique Gómez Barrena, Daniel Lozano Borregón, Natalio García Honduvilla

Title: Biomaterial with osteostatin for bone regeneration and tissue engineering

Application number: P201031193 – PCT/ES2011/070547

Priority Country: Spain

Priority date: 30-07-2010 **Reception date:** PCT: 26/07/2011

Holder Institution: UCM (45%), Jiménez Díaz Foundation (33%), UAH (22%).

Extended Countries: European Union

Exploiting Companies: UCM

Publication number: ES2373896 **Grant date:** 10/02/2012

Inventors (by order of signature): María Vallet Regí, Miguel Manzano, Jaime Esteban Moreno, Diana Molina Alonso, Enrique Gómez Barrena.

Title: Bioceramics materials for osteomyelitis treatment

Application number: PCT/ES20122000160

Priority Country: Spain **Priority date:** 20 -12 -2011

Holder Institutuion: UCM (40%), Jiménez Díaz Foundation (40%), UAH (20%).

Extended Countries: European Union

Exploiting Companies: UCM

Publication number: ES2393602 **Grant date:** 26/12/2012

Inventors (by order of signature): J.M. García-Martín, A. Palmero, R. Álvarez, M.Vallet-Regí, D. Arcos, I. Izquierdo

Title: Biocompatible implants of nanostructured titanium with antibacterial properties

Application number: P201430616

Priority Country: Spain **Priority date:** 25 -04 -2014

Holder Institution: UCM / CSIC

Extended Countries: Spain

CONFERENCES

1. Synthesis of useful hexaferrites in magnetic recording. Universidad de Barcelona. Barcelona (Spain). September 26, 1983.
2. Non-stoichiometry in perovskites International University, Santander (Spain). July 6, 1984.
3. Synthèse et caractérisation de ferrites hexagonaux pour l'enregistrement magnétique. Spanish-Franco Meeting, Barcelona (Spain). September, 1987.
4. Synthesis of superconducting Materials. Complutense University, El Escorial (Spain). July 4, 1988.
5. Non- stoichiometry and order-disorder in mixed oxides with perovskite related structure. Bariloche Atomic Center (Argentina). March 7, 1989.
6. Synthesis and characterization of high Tc ceramic superconductors. Bariloche Atomic Center (Argentina). March 14, 1989.
7. Accommodation of non-stoichiometry in perovskite related materials. National Atomic Energy Center, Buenos Aires (Argentina). March 17, 1989.
8. Compositional substitutions in the Bi-Sr-Ca-Cu-O system. Meeting PICS, Grenoble (France). November 1989.
9. Preparation methods of high Tc superconductors: ceramics and single crystals. International University Menéndez Pelayo. Barcelona (Spain). June 25, 1990.
10. Two-dimensionality and structural intergrowths in copper oxide superconductors. Italian-Portuguese-Spanish Meeting in Inorganic Chemistry. Gandía (Spain). June 29, 1990.
11. Using precursors in the synthesis of materials by precursors method. GEQUES Córdoba (Spain). October 17, 1990.
12. Inorganic Chemistry contributions to improve living standards. Pharmacy Faculty. University Complutense of Madrid (Spain). December 8, 1990.
13. Chemistry and the new materials. College of Castellón (Spain). January 18, 1991.
14. Bioinorganic and biomaterials. IV Chemistry Conferences. University Complutense of Madrid (Spain). April 2, 1992.
15. Magnetic Bioceramics. Intensive course on "Science, design and use of biosensors biomaterials, biomagnetic electronic devices and implantable medical specialties. Organized by the Carlos III Health Institute and National R & D Plan. Poyo – Pontevedra (Spain). June 9, 1992.
16. Permanent magnets in medicine. Intensive course on "Science, design and use of biosensors biomaterials, biomagnetic electronic devices and implantable medical specialties. Organized by the Carlos III Health Institute and National R & D Plan. Poyo – Pontevedra (Spain). June 10, 1992.
17. Magnetic Biomaterials. ICMB of CSIC. Autònoma University of Barcelona. Bellaterra (Spain). June 19, 1992.
18. Reactivity of solids: Application to the synthesis of high temperature superconductors. Invited Conference. Faculty of Sciences. Zaragoza University. Zaragoza (Spain). July 24, 1992.
19. Pyrosol method for preparing thin films and fine particle of superconducting oxides. Invited Conference. Faculty of Sciences. Zaragoza University. Zaragoza (Spain). July 24, 1992.
20. General aspects of the world of biomaterials. Inorganic Chemistry Department at Chemistry Faculty of Valencia University (Spain). July 7, 1993.
21. Influence of the preparation method on controlling the structure and morphology of metal oxides. Invited Conferencia. ICMC - C.S.I.C. Madrid (Spain). November 16, 1993.
22. Preparative strategies for controlling structure and morphology of metal oxides. Invited Conference given in the "Discussion Meeting on Current Topics in Solid State Chemistry" that held in the Indian Institute of Science in Bangalore (India). December 15, 1993.

23. Biomaterials and Inorganic Chemistry. Invited Conference.. Inorganic Chemistry Department of Central University in Barcelona (Spain). February 22, 1994.
24. Synthesis of small particles by the pyrosol method. Invited Conference. Inorganic Chemistry Dpt. Valencia University (Spain). March 11, 1994.
25. Synthesis of iron oxides by the pyrosol method. IMA-UCM-RENFE. Madrid (Spain). March 15, 1994.
26. Synthesis of small particles and thin films by the pyrosol method. 1994 Lecture Series. "Challenges for the design of new materials: composition, properties and applications of nanostructured solids". ICMSE, Seville (Spain). March 22, 1994.
27. Synthesis of iron and titanium oxides with small particle size. Invited Conference. Rocasolano Institute. C.S.I.C. Madrid (Spain). May 4, 1994.
28. ¿Se pueden preparar óxidos metálicos controlando su estructura y morfología? Can be prepared metal oxides controlling its structure and morphology?. Invited Conference. XXV Biennial Meeting of the Spanish Royal Society of Chemistry. Vitoria (Spain). September 27, 1994.
29. Bioceramics. Invited Conference. Symposium XVII Iberian Society of Biomechanics. SIB'94. Seville (Spain). December 15-17, 1994.
30. Synthesis of inorganic materials. Invited Conference in the "II Conference on Materials Science " and participation in a Round Table. Seville (Spain). January 27, 1995.
31. Biomaterials. Invited Conference. Science Faculty of the Basque Country University. Leioa (Spain). March 2, 1995.
32. Bioceramics. Invited Conference. XXXII National Congress of the Spanish Society of Orthopaedic Surgery and Traumatology. Seville (Spain). October 3, 1995.
33. Preparative Strategies and Microstructural Characterization of Single and Complex Metal Oxide. Invited Conference. National Institute for Research in Inorganic Materials (NIRIM) in Tsukuba (Japan). March 14, 1996.
34. Bioceramics: Inerts and Bioactive. Invited Conference. Royal Academy of Sciences, Madrid (Spain). March 20, 1996.
35. Bioceramics: past, present and future. Invited Conference. Institute of Ceramics and Glass. Madrid (Spain). May 8, 1996.
36. Bioceramics in the context of the Inorganic Chemistry. Invited Conference. Chemistry Faculty at Universidad Complutense of Madrid (Spain). May 17, 1996.
37. Multipurpose sample holder possibilities: some examples. II Course of Philips DRX. Madrid (Spain). June 20, 1996.
38. Current problems of the bioceramics and possible solutions. Invited Lecture. I National Congress on Biomaterials. Ávila (Spain). June 24, 1996.
39. Hidroxyapatite and nonstoichiometric apatites. Invited Conference. Departamento de Engenharia Cerâmica e do Vidro de la Universidade de Aveiro (Portugal). July 23, 1996.
40. Introduction to the world of Biomaterials. Opening Lecture of the "Biomateriales" Course. Summer Courses of the Complutense University.. El Escorial (Spain). July 15, 1996.
41. Speaker for the Colloquium "Perspectives on Biomaterials". Zaragoza (Spain). February 12, 1997.
42. Biomaterials in the context of Materials Science. Invited Conference. Inorganic Chemistry Dpt. at Chemistry Faculty. Alcalá de Henares University, Madrid (Spain). May 21, 1997.
43. XRD application to the study of thin films. V Course of Philips DRX. Madrid (Spain). December 11, 1997.
44. Frequent biomaterials in the field of optics, heart disease and osteoporosis. Benidorm (Spain). March 20, 1998.

45. Surface bioactive ceramics. XXI Symposium of the Iberian Society of Biomechanics. Madrid (Spain). November 27, 1998.
46. Bioactive glasses II General Congress INVESCOT 99. Pamplona (Spain). January 23, 1999.
47. Biomaterials: Elements to rebuild the organism. V Conference on Physics and new Technologies. Lleida University (Spain). March 25, 1999.
48. Chemistry and Biomaterials. Invited Conference. Conference on Materials of the Future: Chemistry XXI century. Science Faculty. Burgo University. Burgos (Spain). April 30, 1999.
49. Hard tissues: Rebuild or regenerate. Inorganic Chemistry Dpt. Alcalá de Henares University (Spain). May 7, 1999.
50. Synthetic apatites vs biological apatites. Chemistry Faculty. Basque Country University. Bilbao (Spain). June 9, 1999.
51. Bioactive glasses in the CaO-SiO₂ y CaO-SiO₂-P₂O₅ system. Plenary Lecture in the II International Congress of Biomaterials. La Havana (Cuba). November 1, 1999.
52. Biomaterials: an aid to improve the quality of life. Invited Conference. Student Residence. C.S.I.C. Madrid (Spain). May 10, 2000.
53. Biomaterials. Invited Conference in the cycle of activities of the 25th anniversary of the Faculty of Pharmacy in Alcalá de Henares University. Alcalá de Henares (Spain). May 12, 2000.
54. Bioactive ceramics. Invited Conference. XI National Congress of the Spanish Society of Ceramics and Glass. Onda – Castellón (Spain). November 10, 2000.
55. Biomaterials. Invited conference in the First Lecture Series of the Program of Scientific Culture. Mathematics Faculty. University Complutense of Madrid (Spain). November 29, 2000.
56. Biomaterials for bone replacement. Invited Conference. Department of Applied Physics E.T.S.I. Industrial and Mining. Vigo University. Vigo (Spain). March 9, 2001.
57. Bioglasses. Invited Conference. Department of Applied Physics E.T.S.I. Industrial and Mining. Vigo University. Vigo (Spain). March 9, 2001.
58. Biomaterials: replacement for the human body. Invited Conference. Inorganic and Organic Chemistry Department. Jaume I University. Castellón (Spain). June 11, 2001.
59. Apatites for regeneration of bone tissue. Invited Conference. XLI Congress of the Spanish Society of Ceramics and Glass. Benalmádena – Málaga (Spain). November 20-23, 2001.
60. Physics of Materials Departament. Physics Faculty. Universidad Complutense of Madrid. Madrid (Spain). December 12, 2001.
61. Synthesis and characterization of bioactive glasses. Inorganic Chemistry Departament. Science Faculty. University of Málaga. Málaga (Spain). April 26, 2002.
62. Controlled drug release in implants of bioactive glass. Invited Conference. Inorganic and Organic Chemistry Department. Jaume I University. Castellón (Spain). May 17, 2002.
63. Mesoporous matrices as delivery systems nanodrugs. Invited Conference. NanoBiomaterials Course at the School of Science and Engineering of Materials “Eduardo Torroja”. International University Menéndez Pelayo. Santander (Spain). July 8-12, 2002.
64. Mesoporous matrices for controlled drug release. Invited Conference in the Conference "Applied Science in Ceramic Industry". Organized by SECV and the UJI Castellón (Spain). July 17, 2002.
65. Chemistry and the Biomaterials. Invited Conference in the course of teacher training for secondary education “Physics and Chemistry: implications in technology and society today”. International University Menéndez Pelayo. Santander (Spain). September 10, 2002.
66. Contribution of chemistry in the search for materials to produce implants. Invited Conference. Valladolid University. Valladolid (Spain). November 29, 2002.

67. Ceramics for medical applications. Invited Conference in the Institut für Festkörper- und Werkstofforschung Dresden (Germany). December 12, 2002.
68. Inorganic Chemistry and regeneration of bone tissue. Invited Conference in the Centennial of the RSEQ. Madrid (Spain). July 9, 2003.
69. Bioceramics. Opening lectura of the Summer Course of Complutense University. Health Bioceramics. El Escorial (Spain). August 25, 2003.
70. Imitating Nature: nano-apatites. Royal Academy of Pharmacy. Madrid (Spain). January 29, 2004.
71. Biomaterials used in implantology. Ruber Hospital. Madrid (Spain). January 30, 2004.
72. Alternative materials for bone replacement. University of Módena (Italy). February 2004.
73. Biomaterials: replacement for the human body. Royal Academy of Engineering. Admission speech. Madrid (Spain). February 18, 2004.
74. Biomaterials in the facial repair. Institut of Spain. Madrid (Spain). March 3, 2004.
75. Bioceramics for medical applications. Málaga (Spain). March 9, 2004.
76. Biomaterials: replacement for the human body. Seville (Spain). March 16, 2004.
77. Mesoporous materials: drug delivery systems and/or tissue engineering scaffolding. Plenary Lecture. Montpellier (France). April 4, 2004.
78. Bioceramics Materials. Seminars. "Biomedical engineering" Doctoral Program . University of Zaragoza (Spain). May 7, 2004.
79. Alternatives to replace bone. Faculty of Science, University of Cantabria. Santander (Spain). May 28, 2004.
80. Introduction to World Biomaterials. Research and Engineering Institute of Aragon. University of Zaragoza (Spain). May 6, 2004.
81. Speech in the Graduation Ceremony of the Complutense University of Madrid. (Spain). June 18, 2004.
82. Biomaterials. Social Communication of Science and Technology. School of Summer of Complutense University of Madrid. (Spain). July 5-30, 2004.
83. Bone substitutes. Madrid (Spain). December 17, 2004.
84. Presentation of Gender Action Plan. Kick-off Meeting, Fame Net. Bordeaux (France). February 11, 2005.
85. Materials to improve the quality of life. CENIM-CSIC, Madrid (Spain). March 2, 2005.
86. Speech in the Ceremony of credentials university fellows of Madrid's community (Spain). April 5, 2005.
87. Biomaterials and their impact. Univ. Barcelona (Spain). April 20, 2005.
88. Materials chemistry and its application in the health world. Jaume I University, Castellón (Spain). May 9, 2005.
89. Bioceramics. Jaume I University, Castellón (Spain). July 4, 2005.
90. Nano outside, Nano inside. El Escorial, Madrid (Spain). July 7, 2005.
91. Health Engineering. El Escorial, Madrid (Spain). July 11, 2005.
92. Bioceramics materials for bone reconstructions. 10th ECSSCh. Plenary Lecture. Sheffield. (United Kingdom). August 30, 2005.
93. Bone repair and regeneration: possibilities. 8th Intl. Symp. Biomaterials and Biomechanics. Essen (Germany). September 21, 2005.

94. Research in Bioceramics. Biomechanics Institut of Valencia (Spain). October 20, 2005.
95. Ceramic materials for bone repair and regeneration. Turku Centre for Biomaterials. "Biomaterials day". Turku (Finland). October 25, 2005.
96. From St. Albert to the biomaterials. Master Class. University of Alcalá de Henares, Madrid (Spain). November 11, 2005.
97. Quality of life and biomaterials. Week of Science and Chemistry Day. Palma de Mallorca (Spain). November 16, 2005.
98. Nanoscience in biomaterials. Complutense International Meeting "Science and Society" on Nanoscience. Physics Faculty. Prof. Maria Vallet Regí with the participation of Nobel Prizes. Madrid (Spain). December 15, 2005
99. Bone replacement and regeneration applications: are bioceramics up to the job? International Meeting on "Recent Developments in Metal Oxides and Related Materials". Bangalore (India). January 9-11, 2006.
100. Biominerals and biomaterials. Chemistry Faculty. University of Murcia (Spain). March 24, 2006.
101. Biomaterials: bioactive ceramics. Faculty of Science. University of Cádiz. (Spain). April 6, 2006.
102. Nanoceramics vs. Conventional ceramics for clinical applications. Opening lectura. Course Functional advance materials and engineering of hybrids and ceramics. El Escorial, Madrid (Spain). June 26, 2006.
103. Nanoscience in drug delivery systems and tissue engineering. Invited Conference. 1st European Chemistry Congress. Budapest (Hungary). August 27-31, 2006.
104. Bioceramics and Pharmaceuticals: a remarkable synergy. Plenary lecture. 5th International Conference On Inorganic Materials. Ljubljana (Slovenia). September 23-26, 2006
105. Ceramic materials used as bone substitutes. Invited Conference. Meeting on Biomaterials Bone substitutes, current experiences and future prospects. Virgen de la Arrixaca University Hospital. Murcia (Spain). September 21-22, 2006.
106. Ceramic and Health. Opening Lecture. XLVI Congress SECV. Vall d'alba, Castellón (Spain). October 25, 2006.
107. Biomaterials. Inorganic Chemistry Departament. University of Alicante (Spain). December 13, 2006.
108. Cerámicas como sistemas de liberación controlada de fármacos. Ceramics as systems controlled drug release. Chemistry Faculty. Universidad of Alicante (Spain). December 14, 2006.
109. Ceramic matrices as drug delivery systems. Joint Colloquium NIS – Centro "G. Scansetti". Torino (Italy). January 11, 2007
110. Ceramic matrix with double clinical application: biomaterials and controlled release systems for drugs. Chemistry Dpt. University Autónoma of Barcelona (Spain). February 6, 2007
111. Aplicaciones de materiales mesoporosos de sílice en el campo sanitario. Applications of mesoporous silica materials in the sanitary field. University of Jaume I, Castellón (Spain). February 26, 2007.
112. Biomedical applications of inorganic solid materials. University of Módena (Italy). March 6, 2007.
113. Biominerals. Inorganic Chemistry Dpt. Chemistry Faculty. University of Murcia (Spain). March 9, 2007.
114. Biomaterials. Inorganic Chemistry Dpt. Chemistry Faculty. University of Murcia (Spain). March 9, 2007
115. Ceramic matrices with two clinical applications: biomaterials and drug delivery systems ESAFORM, Zaragoza (Spain). April 19, 2007.
116. Porous materials as controlled drug release systems. European Science Foundation. ESF. París (France). April 28, 2007.
117. Ceramic materials for dental implantology. International Seminar Complutense. UCM, Madrid (Spain). June 1, 2007.

118. Ceramic materials in biomedicine. Summer Course. UIMP Castellón (Spain). July 2-6, 2007.
119. Chemistry in the manufacture of materials. Summer Course. El Escorial, Madrid (Spain). July 17, 2007.
120. Next Challenges in biomaterials. 3rd Joint Summer School and Fall Work Meeting. Funchal, Madeira (Portugal). October 1, 2007.
121. Ceramic materials usable as bone substitutes. MAZ, Zaragoza (Spain). October 25, 2007
122. Cerámicas avanzadas con aplicaciones clínicas: el mundo de los biomateriales. Advanced ceramics with clinical applications: the world of biomaterials. Chemistry Faculty. Univ. Complutense. Madrid (Spain). October 30, 2007.
123. Being a researcher: the search of solutions to repair our bones. Science Week. CAM. Madrid (Spain). November 6, 2007
124. Bioceramics devoted to hard tissues and drug delivery systems. University of A Coruña. Faculty of Science. A Coruña (Spain). November 22, 2007.
125. Biomaterials in implantology. Ruber Clínica. Madrid (Spain). January 2008
126. Biominerals y biomateriales. Faculty of Chemistry. Universidad of Murcia (Spain). April 17, 2008
127. Role of chemistry in the manufacture of implants. University of Vigo (Spain). April 29, 2008.
128. Biominerals VS Biomaterials: How chemicals can work. University of the Basque Country. Bilbao (Spain). May 16, 2008.
129. Bioceramics with clinical applications: biomaterials and drug delivery systems. OSiXeNaTe Cicle. Chemistry Faculty. Universidad Santiago de Compostela, A Coruña (Spain). May 21, 2008.
130. Promising trends of bioceramics in the biomaterials field. Fifth Latin-American Congress On Artificial Organs And Biomaterials (Brasil). June 22-25, 2008.
131. From Marie Curie to the 21st Century Scientists: a Long Way. Science and Technology Applied by and for Women. Faculty of Journalism. UCM, Madrid (Spain). July 6, 2008.
132. Novel insights into Mesoporous Ordered Delivery Systems for Biotechnological applications. College of France. Paris (Spain). September 4, 2008.
133. Evolution of ceramics in the field of biomaterials. Science Week. Palma de Mallorca (Spain). November 11, 2008.
134. Bioceramics as controlled delivery systems of biologically active molecules. Der Deutschen Gesellschaft für Biomaterialien. Hamburg (Germany). November 21, 2008
135. Biocerámicas como sustitutos óseos y como sistemas de anclaje de sustancias biológicamente activas. Bioceramics as bone substitutes and as anchoring systems of substances biologically active. Molecular Science Institute. (ICMol). University of Valencia. Valencia (Spain). December 12, 2008.
136. Biomaterials in implantology: general concepts. Ruber Clinic. Madrid (Spain). January 23, 2009.
137. Hybrid Materials Conference. Symposium A – Biohybrids and Biomaterials. Featured Lecture 8 – Evolution of Ceramics in the biomaterials field. Tours (France). March 15-19, 2009
138. The path from bioinert ceramics to drivers of living tissue regeneration. Universität Duisburg. Essen (Germany). March 27, 2009
139. Biominerals vs Biomaterials. Seminars “Frontiers of Materials Science”. Materials Science Dpt. U.P.M. Madrid (Spain). March 30, 2009.
140. Biomaterials. Maratón científico Nuevos Materiales: Nuevas Necesidades. Scientific Marathon New Materials: New Needs. National Museum of Science and Technology. Madrid (Spain). April 30, 2009.
141. Biominerals. Chemistry Faculty. University of Murcia (Spain). May 6, 2009.
142. Biomaterials. Chemistry Faculty. University of Murcia (Spain). May 7, 2009.

143. Bioceramics in the biomaterials field. Arrhenius Laboratoire. Stockholm University (Sweden). September 7, 2009.
144. Ordered mesoporous silica matrices: bioactive and controlled delivery systems. Grand Hôtel Saltsjöbaden, Stockholm (Sweden). September 9, 2009.
145. Biomedical applications of ordered mesoporous silica matrices. Oviedo (Spain). September 13-18, 2009.
146. Ceramic materials useful as bone substitutes. Madrid (Spain). December 10, 2009.
147. Biomaterials in implantology: General Concepts. Postgrade in Basic Oral Implantology. AC Palacio. Madrid (Spain). January 23, 2010.
148. Third generation bioceramics. Alicante. VI Scientific Meeting of the Institute of Materials of Alicante (IUMA). Alicante (Spain). January 28-29, 2010.
149. Biomaterials and Biomedicine. Where are they? Faculty of Medicine. University of Cantabria (Spain). March 17, 2010.
150. Inorganic Chemistry of Nanomaterials: Bioceramics. Conferences Series QInm 2010. University of Cádiz (Spain). April 8, 2010.
151. Bioceramics in Inorganic Chemistry. Inorganic Chemistry Dept. University of Murcia (Spain). April 12, 2010.
152. Biominerals. Inorganic Chemistry Dept. University of Murcia (Spain). April 13, 2010
153. Bone and tissue regeneration: how to help. UCM. Madrid (Spain). April 14, 2010
154. Ceramic materials as bone substitutes. SYNTHES. Biomaterials and bone substitutes Conferences. Barcelona (Spain). April 22- 23, 2010
155. Bioceramics for bone tissue regeneration. Institut of General Organic Chemistry (IQOG). Madrid (Spain). May 5, 2010
156. Bioceramics and drugs: a good symbiosis. Royal Academy of Pharmacy. Madrid (Spain). May 6, 2010
157. Functional silica-based systems for drug delivery and tissue engineering. ITQ. Valencia (Spain). May 25, 2010.
158. Matrices for tissue engineering. Royal Academy of Medicine of Murcia. Murcia (Spain). May 28, 2010
159. Materials for medical applications: from macro to nano. Zaragoza (Spain). June 24, 2010
160. Bioceramics: calcium phosphates, glasses, glass ceramics and more... Jaca (Spain). July 12, 2010
161. Biomedical applications of mesoporous materials: Drug Delivery and Tissue Engineering. Waseda University (Japan). September 3, 2010.
162. Bioceramics: evolution and applications. Waseda University (Japan). September 4, 2010.
163. Biomaterials and biomedicine: the reality exceeds fiction. Univ. Cartagena (Spain). September 12-15, 2010.
164. Bioceramics: evolution and applications. STOCKHOLM, Matsällskapet, Himlabacken 4, 170 78 Solna (Sweden). September 29, 2010.
165. Meeting point between biomaterials and biomedicine. University of Málaga. Málaga (Spain). October 15, 2010.
166. Can Chemistry repair the human body? IQOG-CSIC. Madrid (Spain). October 21, 2010.
167. New nanomaterials: David beats Goliath. Cervantes Institute. Madrid (Spain). November 9, 2010.
168. The bionic man to nanomedicine. Caja Bruggos. Burgos (Spain). November 18, 2010.
169. Biomimetic nanoceramics in clinical use. From materials to applications. AMGEN and GSK, Barcelona (Spain). November 27, 2010.

170. Biomaterials in implantology: General concepts. Postgradoin basic oral implantology. AC Palacio. Madrid (Spain). January 21, 2011.
171. Biomimetic nanoceramics: from material to applications. Tres Cantos r&D Scientific Seminar Series (1q 2011). CIB Auditorium. Madrid (Spain). February 11, 2011.
172. Organic-inorganic hybrid bioceramics for medical applications. Strasbourg (France). March 9, 2011.
173. Chemistry to repair the human body: from the bionic man to nanomedicine. Seminar series: "Chemistry: our life, our future". International Year of Chemistry 2011. Palma (Spain). March 29, 2011.
174. Bioceramics application: from regeneration of bone to gene therapy. ICMM-CSIC. Madrid (Spain). April 5, 2011.
175. Tribute to Professor D. Luís Munuera Martínez. Faculty of Medicine. UAM. Madrid (Spain). April 7, 2011.
176. Chemistry in the human body repair. University of Murcia (Spain). May 19, 2011.
177. Biominerals. Inorganic Chemistry Dpt. University of Murcia (Spain). May 19, 2011.
178. Biomaterials and their applications. Chemistry and its frontiers. University of Granada (Spain). May 26, 2011.
179. Chemistry: designing and improving biomaterials. Univ. of the Basque Country. Bilbao (Spain). June 23, 2011.
180. Bioceramics y bioglasses. University of Zaragoza. Jaca (Spain). July 11-13, 2011.
181. Bioceramics applications: from bone regeneration to gene therapy through drug delivery. Porto (Portugal). July 15, 2011.
182. Scaffolds for bone tissue regeneration: overview and nanotechnology advances. Science Foundation. Santander (Spain). July 26, 2011.
183. Kimikaren zeregina giza gorputza konpontzeko: gizaki bionikotik nanomedikintzara. Zientzia Foroa. Kursal. San Sebastian (Spain). October 13, 2011.
184. Drugs, nanomedicine and biomaterials: a common goal. Admission conference at Royal Academy of Pharmacy. Madrid (Spain). October 28, 2011.
185. The bionic man to nanomedicine. Burgos (Spain). November 2, 2011.
186. Contribution of chemistry to biomaterials, nanomedicine and drugs. University of Jaén. Jaén (Spain). November 7, 2011.
187. Chemistry in body repair. Faculty of Chemistry. University of Vigo. Vigo (Spain). November 10, 2011.
188. Chemistry and Materials: from macro to nano. CICLE "SCIENCE AND SOCIETY". Universidad de Alicante. Alicante (Spain). November 21, 2011.
189. Smart drug delivery. Faculty of Chemistry. International Year of the Woman researcher. Basque Country University. Bilbao (Spain). November 23, 2011.
190. Chemistry and Welfare Society: indissoluble binomial. Department of Pulp and Paper. University of Guadalajara. Guadalajara (Mexico). November 30, 2011.
191. Chemistry, a pillar of Engineering. Royal Academy of Engineering. December 13, 2011.
192. Applied Chemistry: solutions in biomaterials and nanomedicine. Organic and Inorganic Chemistry Dpt. University of Jaume I, Castellón (Spain). December 16, 2011.
193. Biomaterials in implantology: General Concepts. AC Palace. Madrid (Spain). January 20, 2012.
194. Types of biomaterials. SEFRAOS. NH Constanza in Barcelona (Spain). January 27, 2012.
195. Development of ceramic scaffolds for bone tissue regeneration. Gómez Ulla Central Hospital of Defense. Madrid (Spain). February 18, 2012.

196. Chemistry and Society: From new materials to water decontamination. Chemistry School. University of El Salvador. April 12, 2012.
197. Chemistry: solutions in biomaterials and nanomedicine. "Metalofármacos" Research Group of the Chemistry Faculty in the University of Murcia (Spain). May 8, 2012.
198. Mesoporous silica nanoparticles in nanomedicine and its relationship with biomaterials. Biological Research Center-CSIC. Madrid (Spain). May 23, 2012.
199. Biomaterials, Nanomedicine and Drugs: meeting point. Institute of Molecular and Cell Biology (IBMC), Miguel Hernández University, Elche (Spain). May 25, 2012.
200. Evolution of Biomaterials. Chemistry School. University of El Salvador (UES). August 17, 2012.
201. Biomaterials in oral implantology. National University of Colombia. Bogotá (Colombia). October 24, 2012.
202. Development of ceramic scaffolds for bone tissue regeneration. National University of Colombia. Bogotá (Colombia). October 27, 2012.
203. Different possibilities of bioceramics in the medical field. Materials Dpt. University of Extremadura. Badajoz (Spain). November 23, 2012.
204. Biomaterials and their application in the medical field. Biomechanics, Biomaterials and Functional Anatomy Course. Faculty of Medicine UAM. Madrid (Spain). November 30, 2012.
205. Can chemistry help repair the human body? III Divulcation course. CSIC, Madrid (Spain). January 10, 2013.
206. Building bridges in materials science: engineering, medicine, biology, physics and chemistry to the health service. International Seminars Frontiers of Materials Science . Science Materials Department. Polytechnic University of Madrid (Spain). January 14, 2013
207. Biomaterials in Implantology: general concepts. AC Palace, Madrid (Spain). January 18, 2013.
208. Mesoporous silica nanoparticles for clinical nanomedicine. ZING nanomaterials conference. Lanzarote (Spain). February 16-19, 2013.
209. Biomaterials and nanostructures Bionand. Andalusian Centre for Nanomedicine & Biotechnology. Málaga (Spain). February 22, 2013.
210. Chemistry and its relationship with biomaterials, nanomedicine and drugs. Chemistry Faculty. University of Murcia (Spain). April 9, 2013.
211. Biomaterials: from macro to nano. Chemistry Faculty. University of Murcia (Spain). April 10, 2013.
212. Chemistry and health: biomaterials. Chemistry Faculty. University of Alcalá de Henares (Spain). April 12, 2013.
213. Inorganic nanoparticles intended for medical applications. Granada (Spain). May 8, 2013.
214. Nanocarriers of therapeutic agents: stimulus-answer release. Alcalá de Henares (Spain). May 16, 2013.
215. Mesoporous silica nanoparticles for the design of smart delivery nanodevices. Awaji (Japan). May 23, 2013.
216. Nanotechnology: Science ¿and fiction? Science with chocolate. Madrid (Spain). June 18, 2013.
217. Biomaterial features. Course on Biomaterial handling and membranes in guided bone regeneration. Coppel Dental Academy. Madrid (Spain). June 22, 2013.
218. Ceramic materials for applications in medicine. Science and Technology of Ceramic Materials: XXI Century Challenges. Vila-Real (Spain). July 4, 2013.
219. Biomaterials for medical applications of nanomedicine implantology. Burgos (Spain). July 7-10, 2013.
220. Design biomaterials. Santander (Spain). September 17, 2013.

221. Bio-inspired ceramics for tissue engineering. Mechanical Engineers School. University of Vigo (Spain). October 25, 2013.
222. Chemistry and health, good symbiosis. Faculty of Pharmacy. University of Valencia (Spain). October 28, 2013.
223. Biomaterials: from implants to nanomedicine. Science Faculty, University of La Rioja (FCEAI-UR). Logroño (Spain). November 18, 2013.
224. Biomaterials in oral implantology. Coppel Dental Academy Madrid (Spain). January 17, 2014.
225. The chemistry and production of materials: biomaterials. Interuniversity Course (UAH, UAM, UCM, URJC) University Autónoma of Madrid (Spain). January 23, 2014.
226. Biomaterials design: from implants to regenerative medicine. University of Erlangen (Germany). March 25, 2014.
227. From implants to regenerative medicine. Auditorium Municipal of Vila-Real (Spain). April 2, 2014.
228. Chemistry in implants and nanomedicine. Science Faculty. University of Valladolid. Valladolid (Spain). April 11, 2014
229. Biomaterials design: from macro to nano. Antalya(Turkey). April 28, 2014.
230. Nanomedicine: what can for ? Càtedra d'Innovació Ceràmica 'Ciutat de Vila-real' of University Jaume I. Vila Real (Spain). June 26, 2014.
231. Roadmap for the design of bone substitutes: from macro to nano. Aveiro (Portugal). June 2, 2014.
232. From bone replacements to therapies focused on drug delivery. ANQUE. Madrid (Spain). July 4, 2014.
233. Drug delivery and bacterial anti-adhesive surfaces: possibilities. Warsaw (Poland). September 15-18, 2014.
234. Crystallographic disorder: its role in health. Escorial Courses. UCM. El Escorial (Spain). July 18, 2014.
235. Nanoparticles in Medicine: Introduction. Closing Conference. IV National Biotechnology Week. Faculty of Biology. UCM. Madrid (Spain). October 13, 2014.
236. Mesoporous Materials: from bulk to nanoparticles. Barcelona Plaza Hotel. Barcelona (Spain). November 8, 2014.
237. Smart nanocarriers and its application in oncology. Jiménez Díaz Foundation. Madrid (Spain). January 23, 2015.
238. Mesoporous silica materials in hybrid nanosystems as smart delivery devices Sitges (Spain). March 9-13, 2015.
239. Nano-graphene oxide: possible anti-cancer therapy. Univ. Castilla La Mancha. Toledo (Spain). June 25, 2015.
240. Biomaterial concept. Their characteristics. AC Retiro Palace Hotel. Madrid (Spain). June 27, 2015.
241. Biomaterials: From an implant to a nanocarrier. Magdalena Palace. International University Menéndez Pelayo. Santander (Spain). August 17, 2015.
242. Advanced Materials for health. Institut de Materials Avançats. University of Jaume I. Castellón (Spain). September 18, 2015.
243. Scientist and engineer women in the XXI century. Conference series: Women, science and engineering. University of Jaume I. Castellón (Spain). October 7, 2015.
244. Nanocarriers mesoporous silica. II foro da rede galega de biomateriais. Vigo (Spain). October 9, 2015.
245. Why children do not want to be scientists? Information Sciences faculty, UCM. Madrid (Spain). November 17, 2015.
246. Bionic man. Festival Capabilities, Cap-Fest, Arona, Tenerife (Spain). December 4-5, 2015.
247. BIOMATERIAL concept. Actual trends. Update Course in biomaterials. Coppel Dental Academy. Madrid (Spain). January 16, 2016.

248. Drug nanocarriers. Institute of Medical Chemistry. CSIC. Madrid (Spain). January 20, 2016.
249. Cancer and aging. RANF. Madrid (Spain). February 11, 2016.
250. Biomaterials: recent advances. V Edition on divulgation. Advances in Chemistry and its Impact on Society. Madrid (Spain). February 18, 2016.
251. Infection and alternatives to avoid it. Advances in Medicine 2016, CIAM', module "Dentistry Maxillofacial Surgery". Guadalajara (Mexico). February 25, 2016.
252. Nanoscience: drug nanocarriers. Advances in Medicine 2016, CIAM', module "Dentistry Maxillofacial Surgery". Guadalajara (Mexico). February 26, 2016.
253. Nanoscience in medicine: transporting drugs. Let's talk about physics. Physics Faculty. UCM. Madrid (Spain). April 18, 2016.

INTERNATIONAL CONGRESS (Oral communications not included)

SECOND ITALIAN - PORTUGUESE - SPANISH MEETING IN INORGANIC CHEMISTRY.

Alfa Mar (Algarve) Portugal. March, 23-27, 1992.

- Chairperson of the Minisimposium "Synthesis and Characterization of Materials".

12th ISRS - INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS.

Madrid (Spain). September 24-30, 1992.

- Member of the Local Organization Committee y Chairperson of one session.

LATIN-AMERICAN INORGANIC CHEMISTRY MEETING.

Santiago de Compostela (Spain). September 13-17, 1993.

- Member of the Organisation Committee y responsable de la Sección de Química del Estado Sólido y Materiales Inorgánicos.

3RD GIPS MEETING.

Senigallia (Italy). June 8-15, 1995.

- Chairperson of the Minisumposium: Synthesis and structural characterization of materials.
- Chairperson of the session MS1-A.

MINISYMPOSIUM ON THE OPENIGN OF THE LABORATORIO COMPLUTENSE DE ALTAS PRESIONES LCAP.

Madrid (Spain). November 20-24, 1996.

- Chairperson of one session.

V INTERNATIONAL WORKSHOP ON NON-CRYSTALLINE SOLIDS.

Santiago de Compostela (Spain). July 2-5, 1997.

- Chairperson session A

ISMANAM-97.

Sitges (Spain). August 31- September 5, 1997.

- Member of the International Advisory Committee
- Chairperson session 1.

MINISYMPOSIUM ON BIOCERAMICS.

International Seminar Complutense. Madrid, (Spain), October 2-3, 1997

- Conference chairperson.

4th FGIPS MEETING IN INORGANIC CHEMISTRY.

Corfu, (Greece). October 14-18, 1997.

- Chairperson of the Minisymposium: Magnetic, Electronic, Optical, Properties and Structural Characterization of materials.

BIOCERAMICS II.

New York (USA). November 11-14, 1998

- Member of the International Advisory Committee
- Chairperson de la sesión 6: Bioactive Cements.

5th IUMRS-ICA MEETING.

Bangalore (India). August 23-27, 1999.

- Member of the International Advisory Committee

4th EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY, EUCAS'99.

Sitges (Spain). September 14-17, 1999.

- National Advisory Board

VIIth EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY.

Madrid (Spain). September 15-18, 1999.

- Conference co-chairperson

5th FGIPS MEETING IN INORGANIC CHEMISTRY.

Toulouse (France). October 26-31, 1999.

- Member del Honorary Committee.

II INTERNATIONAL CONFERENCE ON BIOMATERIALS, BIOMAT'99.

La Havana (Cuba). November 1-5, 1999.

- Member of the International Advisory Committee.

BIOÁVILA 2000. I IBERIAN CONGRESS ON BIOMATERIALS AND BIOSENSORS.

Ávila (Spain). September 17-20, 2000.

- Member of the Scientific Committee.

17th EUROPEAN CONFERENCE ON BIOMATERIALS.

Barcelona (Spain). September 11-14, 2002.

- Member of the National Scientific Committee.
- Chairperson of session "HA + Calcium phosphate II".
- Referee of the abstracts for this conference.

16th INTERNATIONAL SYMPOSIUM ON CERAMICS IN MEDICINE. BIOCERAMICS 16.

Oporto (Portugal). November 6-9, 2003.

- Member of the Scientific Committee.
- Chairperson of one sesión.
- Referee of the abstracts for this conference.
- Jury prizes awarded

IIIth RENCONTRE FRANCO-ESPAGNOLE SUR LA CHIMIE ET LA PHYSIQUE DEL'ETAT SOLIDE.

Montpellier (France). March 30- April 2, 2004.

- Plenary lecture. Awards of the Societe du Chimie Francaise.

7th INTERNATIONAL CONFERENCE ON SPECTROSCOPIES IN NOVEL SUPERCONDUCTORS. SNS 2004.

Sitges (Spain). July 11-16, 2004.

- Member of the Scientific Committee.
- Chairperson of session 17: Optic III / inhomogeneity III.

BIOÉVORA 2004. II CONGRESO IBÉRICO DE BIOMATERIALES.

Oporto (Portugal). September 9-11, 2004.

- Member of the Scientific Committee.

10th EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY.

Sheffield (United Kingdom). August 29 - September 1, 2005.

- Plenary lecture.

ESB2005.

Sorrento (Italy). August 29 – September 1, 2005.

- Chair session 41 Scaffolds V.

8th INTERNATIONAL SYMPOSIUM BIOMATERIALS AND BIOMECHANICS.

Essen (Germany). September 21, 2005.

- Plenary lecture.

TURKU INTERNATIONAL BIOMATERIALS DAYS.

Turku. (Finland). October 24-25, 2005.

- Plenary lecture

INTERNATIONAL MEETING ON “RECENT DEVELOPMENTS IN METAL OXIDES AND RELATED MATERIALS”.

Bangalore (India). January 9-11, 2006.

- Invited conference.

5th INTERNATIONAL CONFERENCE POROUS SEMICONDUCTORS-SCIENCE AND TECHNOLOGY.

Sitges (Spain). March 12-17, 2006.

- Member of the Scientific Committee.

1st EUROPEAN CHEMISTRY CONGRESS.

Budapest (Hungary). August 27-31, 2006.

- Invited conference.

5th INTERNATIONAL CONFERENCE ON INORGANIC MATERIALS.

Ljubljana (Slovenia). September 23-26, 2006.

- Plenary lecture.

20th EUROPEAN CONFERENCE ON BIOMATERIALS.

Nantes (France). September 27 – October 1, 2006.

- Chairperson of one sesión.
- Referee of the abstracts for this conference.

1st INTERNATIONAL WORKSHOP JAPAN-SWEDEN-SPAIN.

Madrid (Spain). November 23-24, 2007.

- Chair

ESF. EUROPEAN SCIENCE FOUNDATION “.....”.

Paris (France). April 28, 2007.

- Invited conference.

10th ESAFORM. INTERNATIONAL CONFERENCE ON MATERIAL FORMING.

Zaragoza (Spain). April 18-20, 2007.

- Plenary lecture.

TURNING POINTS IN SOLID-STATE, MATERIALS & SURFACE SCIENCE. A SYMPOSIUM TO CELEBRATE THE 75TH BIRTHDAY OF SIR JOHN MEURIG THOMAS FRs.

Cambridge (United Kingdom). December 14-15, 2008.

8TH WORLD BIOMATERIALS CONGRESS.

Amsterdam (Holland). May 28 – June 1, 2008.

- Chairperson of Glasses and glass ceramics session.
- Abstracts censor.

FIFTH LATIN-AMERICAN CONGRESS ON ARTIFICIAL ORGANAS AND BIOMATERIALS.

Brasil. June 22-25, 2008.

- Plenary lecture.
- Chair of Posters.

WOMEN’S WORLDS 08.

Madrid (Spain). July 3-9, 2008.

- Invited conference

4th FEZA CONFERENCE.

Paris (France). September 2-6, 2008.

- Plenary lecture.

ANNUAL MEETING OF THE GERMAN SOCIETY FOR BIOMATERIALS IN HAMBURG. TISSUE REGENERATION/TISSUE REPLACEMENT: FROM MATERIAL TO CLINICAL APPLICATION.

Hamburg (Germany). November 20-22, 2008

- Invited conference.
- Chair of Drug/Cell Delivery Systeme session.

22nd EUROPEAN CONFERENCE ON BIOMATERIALS - ESB2009.

Lausanne (Switzerland). September 7-11, 2009.

- Member of the International Scientific Committee (ISC).

HYBRID MATERIALS 2009. First International Conference on Multifunctional, Hybrid and Nanomaterials.
Tours (France). March 15-19, 2009.

- Chair de Biohybrids and Biomaterials.
- Featured speaker.

EXCELENT WORKSHOP ON POROUS CRYSTALS FROM BASIC TO POTENTIAL APPLICATIONS.
SUPPORTED BY SWEDEN-CHINA RESEARCH LINK (VR) AND EXSELENT PROJECT (vr & VINNOVA).
Stockholm (Sweden). September 7, 2009.

- Invited speaker.

6TH KEY SYMPOSIUM. NANOMEDICINE.
Stockholm (Sweden). September 9-11, 2009.

- Invited speaker.

WORKSHOP NANO09. Shaping the future.
Braga (Portugal). December 10-11, 2009.

- Invited Conference.

2ND INTERNATIONAL CONFERENCE ON METAL-ORGANIC FRAMEWORKS AND OPEN FRAMEWORK
COMPOUNDS (MOF 2010).

Marseille (France). September 5-8, 2010

- International Scientific Committee.

IZC16 IMMS7.

Sorrento (Italy). September 4, 2010

- Chair of the panel New frontiers in Micro and Mesosstructured materials: New applications: biomaterials nano-medicine, opto and nano-eléctronics

SYMPOSIUM FUNDACIÓN ARECES: "NANOMATERIALS AND FUNCIONALITY.

Valencia (Spain). May 25-26, 2010.

- Invited Conference.

JSPS A3 FORESIGHT SEMINAR. PRESENT STATUS AND FUTURE PROSPECTS OF MESOPOROUS
MATERIALS.

Waseda University (Japan). September 3, 2010.

- Invited Conference.

GCOE MINI SYMPOSIUM ON MESOSCALE CHEMISTRY.

Waseda University (Japan). September 4, 2010.

- Invited Conference.

HYBRIDMATERIALS 2011 SECOND INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL, HYBRID
AND NANOMATERIALS.

Strasbourg (France). March 6-10, 2011.

- Feature Lecture.
- Conference Chair & Symposium Chair.

4TH IBERIAN MEETING ON COLLOIDS AND INTERFACES - RIC14.

Oporto (Portugal). July 13-15, 2011.

- Plenary Lecture.

INTERNATIONAL SYMPOSIUM DRUGS, NANOMEDICINE AND BIOMATERIALS: A COMMON GOAL.
Fundación Ramón Areces.

Madrid (Spain). April 24-25, 2012.

- Symposium coordinator
- Moderator of sesión VI
- Closing sesión of the symposium

III SEMINARIO INTERNACIONAL DE INVESTIGACIÓN EN ODONTOLOGÍA.

Bogotá (Colombia). October 25-27, 2012.

- 2 plenary lecture.

ZING NANOMATERIALS CONFERENCE.

Lanzarote (Spain). February 16-19, 2013.

- Plenary Lecture.

8TH INTERNATIONAL MESOSTRUCTURE MATERIALS SYMPOSIUM. Toward Practical Applications: Challenges and Breakthrough.

Awaji island, Hyogo (Japan). May 20-24, 2013.

- Keynote lectura
- Chair of the session Bio-related applications.

INTERNATIONAL SYMPOSIUM ON APATITE AND CORRELATIVE BIOMATERIALS (ISACB 6).

Nantes (France). June 6-8, 2013.

- International Scientific Committee.

44th WORLD CHEMISTRY CONGRESS

Istanbul (Turkey). August 11-16, 2013

- Delivery award: 2013 Distinguished Women in Chemistry and Chemical Engineering

SOL-GEL 2013.

Madrid (Spain). August 25-30, 2013.

- National Scientific Committee.

VIII RECONTRE FRANCO-ESPAGNOLE SUR LA CHIMIE ET LA PHYSIQUE DE L'ETATA SOLIDE.

Vila-Real (Spain). April 2-4, 2014.

- International Scientific Committee.
- Inaugural Plenary Conference.

ICSM2014. 4th INTERNATIONAL CONFERENCE ON SUPERCONDUCTIVITY AND MAGNETISM.

Antalya (Turkey). April 27l – May 2, 2014.

- International Program Committee.
- Plenary Lecture.
- Chair of the session: Magnetic Applications in the Bio world.

5TH INTERNATIONAL CONFERENCE ON ADVANCED NANO MATERIALS

University of Aveiro, Aveiro (Portugal). July 2-4, 2014

- Plenary Lecture.

ANQUE-ICCE-BIOTEC. VIII INTERNATIONAL CONGRESS OF ANQUE: SCIENCE AND TECHNOLOGY OF MATERIALS.

Madrid (Spain). July 1-4, 2014.

- Plenary Lecture.

3RD FRAGILITY FRACTURE NETWORK CONGRESS 2014.

Madrid (Spain). September 4, 2014.

- Invited Conference.

ESB 2014. 26th ANNUAL CONFERENCE EUROPEAN SOCIETY FOR BIOMATERIALS.

Liverpool (United Kingdom). September 3-6, 2014.

- Invited Conference.

E-MRS. 2014 FALL MEETING.

Warsaw (Polland). September 15-18, 2014.

- Invited Conference.

26th SYMPOSIUM AND ANNUAL MEETING OF THE INTERNATIONAL SOCIETY FOR CERAMICS IN MEDICINE (BIOCERAMICS 26).

Barcelona (Spain). November 6-8, 2014.

- Invited Keynote
- Chair of the session A9 Nanoparticles and nanostructured materials

4th INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL, HYBRID AND NANOMATERIALS (HYBRID MATERIALS 2015)

Sitges (Spain). March 9-13, 2015.

- Featured lecture

29th INTERNATIONAL CONGRESS AND EXHIBITION ON COMPUTER ASSISTED RADIOLOGY (CAR 2015).
Barcelona (Spain). September 17-19, 2015.

- Member of the Scientific Committee

INTERNATIONAL SYMPOSIUM THE CANCER AS A RESULT OF AGING: POTENTIAL SOLUTIONS.
Fundación Ramón Areces. Madrid (Spain). November 3, 2015.

- Symposium Coordinator

INTERNATIONAL CONGRESS (Communications)

SECOND EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Eindhoven (Holland). June 1982.

1. "Non stoichiometry in the calcium lanthanum ferrite $\text{Ca}_2\text{LaFe}_3\text{O}_{8+x}$ ".

EUCHEM CONFERENCE: HIGH RESOLUTION ELECTRON MICROSCOPY IN SOLID STATE CHEMISTRY.
Stockholm (Sweden). June 1983.

2. "Ordered and disordered intergrowths in the $\text{Ca}_x\text{La}_{1-x}\text{FeO}_{3-y}$ system".

SECOND SEEHEIM WORKSHOP ON MÖSSBAUER SPECTROSCOPY. Mainz (Germany). May 1983.

3. "Mössbauer studies on the system $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_{3-y}$ ($0.5 \leq x \leq 0.7$)".

INTERNATIONAL CONFERENCE ON PHASE TRANSFORMATIONS IN SOLIDS. Crete (Greece). June 1983.

4. "Order-disorder transition at high temperature and microdomain formation in oxidized ferrites".

I SIMPOSIO IBERICO DE FISICA DE MATERIA CONDENSADA. Lisbon (Portugal). September 1983.

5. "Anionic vacancies distribution in the $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_{3-y}$ ($0.5 \leq x \leq 0.7$) system. Mössbauer spectroscopy".

INTERNATIONAL MAGNETICS CONFERENCE. Hamburg (Germany). April 1984.

6. "Synthesis of sodium spinel ferrites".

XIII TH INTERNATIONAL CONGRESS OF CRYSTALLOGRAPHY. Hamburg (Germany). August 1984.

7. "The crystal structure of CaSnO_3 ".

10TH INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS. Dijon (France). August 1984.

8. "Non-Stoichiometry and reactivity in the calcium lanthanum ferrites".

FOURTH INTERNATIONAL CONFERENCE ON FERRITES. San Francisco (EE.UU.). November 1984.

9. "Non-stoichiometry in perovskite-like ferrites".

ANNUAL CHEMICAL CONGRESS OF THE ROYAL SOCIETY OF CHEMISTRY. St. Andrews, Scotland (United Kingdom). March 1985.

10. "Microdomain formation in the calcium-lanthanum ferrites".

MAGNETIC MATERIALS FOR APPLICATIONS (M.M.A. 85). Grenoble (France). June 1985.

11. "Particle size and magnetic properties of $\text{BaFe}_{12}\text{O}_{19}$ prepared by the organometallic method".
12. "High field magnetization study of sodium-zinc spinel ferrites".

EMAG 85. Newcastle (United Kingdom). September 1985.

13. "Electron microscopy of microdomains in perovskites".

IIIRD EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Regensburg (Germany). May 1986.

14. "Non-stoichiometry in the $\text{CaFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ system".
15. " $\text{Ca}_4\text{Fe}_2\text{Ti}_2\text{O}_{11}$. A new member of the $\text{A}_n\text{MnO}_{3n-1}$ series".
16. "Microdomain formation: A sophisticated way of accommodating compositional variations in non-stoichiometric perovskites."
17. "The influence of the A/Fe ratio in the synthesis of $\text{AFe}_{12}\text{O}_{19}$ (A = Ba, Sr)."
18. "Ni and Mg ferrites obtained by ionic exchange: cationic distribution and magnetics properties."

INTERNATIONAL CONFERENCE ON MAGNETIC RECORDING MEDIA (MRS '86). Parma (Italy). 2-5 September 1986.

19. "Hexagonal ferrite particles for perpendicular recording prepared by the precursor method."

FIFTH EUROPHYSICAL TOPICAL CONFERENCE ON LATTICE DEFECTS IN IONIC CRYSTALS. San Lorenzo de el Escorial (Spain). September 1986.

20. "Structural and textural microdomains: a new type of three-dimensional extended defects in perovskite-like solids."
21. "Non-stoichiometry and disordered intergrowth in crystalline materials."

EUROPEAN WORKSHOP ON HIGH T_c SUPERCONDUCTORS AND POTENTIAL APPLICATIONS. Génova (Italy). July 1987.

22. "Ba₂SmCu₃O_{7-x}: Electrical, magnetic and photoemission studies".
23. "Structural, electrical and magnetic characterization of the H.T.S.C. family Ba₂(TR)Cu₃O₇ (TR = Y, La, Nd, Sm, Eu, Gd, Ho) ($T_c = 90-97K$)."
24. "AC and DC critical currents of a H.T.S.C. (Ba₂HoCu₃O₇: $T_c = 91K$)."
25. "Ba₂YCu₃O₇ prepared by the liquid-mix technique."
26. "A new superconducting ($T_c = 93K$) solid solution: (Ba_{2-x})(K_x)YCu₃O_{7-z}."
27. "ESR study of the effect of oxygen pretreatments on the superconductivity of Ba₂YCu₃O_{7-x}."

EMAG'87. Manchester (United Kingdom). September 1987.

28. "The structure of microdomain boundaries in non-stoichiometric Ca₂LaFe₃O_{8+z}."

EMMA'87 EUROPEAN MAGNETIC MATERIALS AND APPLICATIONS CONFERENCE. Salford (United Kingdom). 14-16 September 1987.

29. "Low temperature synthesis and characterization of γ -Fe₂O₃ particles."
30. "Synthesis and characterization of new substituted barium ferrite particles for magnetic recording."

HIGH TEMPERATURE SUPERCONDUCTORS MATERIALS AND MECHANISMS OF SUPERCONDUCTIVITY. Interlaken (Switzerland). March 1988.

31. "The influence of the synthesis procedure in the obtention of untwinned superconductors."
32. "Magnetics energy absorption in sintered YBa₂Cu₃O_{7- δ} samples."
33. "Structural, electrical and magnetic properties of Ba₂RECu_{3-x}FexO_{7- δ} (RE = Y, Ho) high T_c superconductors."
34. "Critical fields in BaSmCu₃O_{7-x} high T_c superconductor from magnetization measurements."
35. "Diamagnetic and electrical connectivity in an inhomogeneous Ba₂YCu₃O_{7-x} superconductor."
36. "The chemistry of YBa₂Cu₃O₇: A neutron powder thermodiffraction study."

6TH INTERNATIONAL CONFERENCE ON SOLID STATE IONICS. Garmisch (Germany) September 1987.

37. "Lithium insertion in reduced tungsten oxides".

11TH INTERNATIONAL SYMPOSIUM OF REACTIVITY OF SOLIDS. Princeton (EE.UU). June 1988.

38. "An electron diffraction study of new phases in the LaNiO_{3-y} system."
39. "Electron microscopic investigations on morphological and structural features of superconducting Bi-Ca-Sr-Cu-O ceramics."
40. "Lithium insertion in reduced tungsten oxides."

INTERNATIONAL CONFERENCE ON NEUTRON SCATTERING (INCS '88). Grenoble (France). 12-15 July 1988.

41. "Synthesis of BaFe₁₂O₁₉ small particles: a neutron thermodiffraction study."

INTERNATIONAL CONFERENCE ON MAGNETISM (ICM 88). Paris (France). 25-29 July 1988.

42. "Cationic distribution in BaFe_{12-2x}CoxSn_xO₁₉ hexagonal ferrites suitable for magnetic recording."
43. "BaFe₁₂O₁₉ small particles: formation particle size and magnetic properties."

EUREM 88. York (United Kingdom). September 1988.

44. "Combined HREM and crystallographic image processing for the determination of perovskite related structures".
45. "Non stoichiometry in Ca₄Fe₂Ti₂O_{11+z}."

INTERNATIONAL CONFERENCE ON DEFECTS IN INSULATING CRYSTALS. Parma (Italy). August 1988.

46. "Oxygen vacancy ordering in the BaFeO_{3-y} and Ba_xLa_{1-x}FeO_{3-y} system."

INTERNATIONAL CONFERENCE ON CRITICAL CURRENTS IN HTSC. Snowmass Village. Colorado (EE.UU.). August 1988.

47. "Y-Sm twinned and untwinned HTS. A comparative study."
48. "Diamagnetism and critical currents of Bi-Ca-Sr-Cu-O samples."

FIFTH INTERNATIONAL CONFERENCE ON FERRITES, ICF-5. Bombay (India). January 1989.

49. "High field magnetization study of doped barium ferrite."
50. "Influence of the synthesis conditions on the superconducting behaviour of Bi-compounds."
51. "Hexagonal perovskites in the BaFeO_{3-y} system."

52. "Order-disorder in $\text{CaFexMn}_{1-x}\text{O}_{3-y}$ perovskite like ferrites."
53. "Twinning in the $\text{CaYLa}_{1-y}\text{FexCr}_{1-x}\text{O}_3$ system."
54. "The $\text{A}_3\text{M}_3\text{O}_8$ phase: a structural study."

MRS SPRING MEETING. San Diego (EE.UU). April 1989.

55. "Single crystal X-ray diffraction and electron microscopy study of the new phase $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19+x}$ related to the superconducting perovskites."

INTERNATIONAL CONFERENCE MATERIALS AND MECHANISMS OF SUPERCONDUCTIVITY. HIGH-TEMPERATURE SUPERCONDUCTORS. Stanford University (EE.UU). 23-28 July 1989.

56. "Electron microscopy, electrical resistivity and magnetic properties of the new tubular phase $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19+x}$."
57. "Microstructural analysis and physical properties of the Ca-Sr-Bi-Cu-O compound."
58. "On the inhomogeneous superconductivity in Fe substituted $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$."
59. "Antiferromagnetism in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$."
60. "Fluctuations and critical fields in (Y-Sm) HTSC."
61. "Thermal expansion and heat capacity of Bi-Ca-Sr-Cu-O compounds at low temperature."

EUROPEAN MAGNETIC MATERIALS FOR APPLICATIONS (E.M.M.A.). Rimini (Italy). September 1989.

62. "Low temperature magnetization of antiferromagnetic $\text{YBa}_2\text{Cu}_3\text{O}_6$."
63. "Cationic distribution, magnetization and anisotropy of Co^{2+} doped M-type barium ferrite."

32ND. IUPAC CONGRESS. Stockholm (Sweden). 2-7 August 1989.

64. "High resolution electron microscopy on $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19+x}$."
65. "Order-disorder in the perovskite related LaNiO_{3-x} system."

SCANDEM 88. Bergen (Norway). June 1988.

66. "Crystallographic image processing and phase extension to reach atomic resolution."

MRS FALL MEETING. Boston (EE.UU.) 27 November - 2 December, 1989.

67. "High resolution neutron powder diffraction study of the tubular phase $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19+x}$."

INTERNATIONAL CONFERENCE ON TRANSPORT PROPERTIES IN HIGH TEMPERATURE SUPERCONDUCTORS. Rio de Janeiro (Brazil). May 1990.

68. "Low field superconducting glass phase diagram in Fe doped YBaCuO ceramics."
69. "Kosterlitz-Thouless transition in high quality YBaCuO ceramics."

WORKSHOP ON ELECTRONIC PROPERTIES OF HTSC. Vienna (Austria). May 1990.

70. "Hole doping in $(\text{La}, \text{Nd})_2\text{NiO}_{4+\delta}$."

E-MRS SPRING MEETING. Strasbourg (France). 29 May - 1 June 1990.

71. "Evidence for a Kosterlitz-Thouless transition in high quality YBaCuO ceramics."
72. "Low field superconducting glass phase diagram in Fe doped $\text{YBa}_2\text{Cu}_3\text{O}_7$ ceramics."
73. "Transport and magnetic properties versus hole doping in $(\text{La}, \text{Nd})_2\text{Ni}_{4+\square}$ oxides."

SCANDEM-90. Turku (Finland). June 1990.

74. "Structure determination of complex perovskite-related structures by HREM and crystallographic image processing."

XVTH CONGRESS AND GENERAL ASSEMBLY INTERNATIONAL UNION OF CRYSTALLOGRAPHY. Bordeaux (France). July 1990.

75. "Structural and physical properties of $\text{Bi}_4\text{Sr}_8\text{Cu}_5\text{O}_{19+y}$."

XII INTERNATIONAL CONGRESS FOR ELECTRON MICROSCOPY. Seattle (EE.UU.). August 1990.

76. "An electron microscopy study of $\text{Ba}_x\text{La}_{1-x}\text{FeO}_{3-y}$ system."
77. "HREM study of M, Y and W hexagonal type ferrites."
78. "Microstructure of BaFe_2O_4 ."
79. "Microdomains in BaFeO_{3-y} ."

INTERNATIONAL WORKSHOP ON HTCS THIN FILMS PROPERTIES AND APPLICATIONS. Rome (Italy). 15-19 April 1991.

80. "Thin Films of Magnesium Oxide by Modified CVD: a Buffer Layer for HTCS Films."

THE 5TH JOINT MMM-INTERMAG CONFERENCE. Pittsburgh, Pennsylvania (EE.UU.). 18-21 June 1991.

81. "Spin glass transitions in $\text{BaCo}_6\text{Ti}_6\text{O}_{19}$."

M2S - HTSC III. Kanazawa (Japan). 22-26 July 1991.

82. "Oxygen Content and Microstructure in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ ".
83. "Influence of oxygen stoichiometry on Tc and pinning force of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ ".
84. "Magnetic interactions in La_2NiO_4 ".
85. "Magnetic irreversibility in granular superconductors in: an ac susceptibility study".

I.C.N.S.'91. Oxford (United Kingdom). August 1991.

86. "Oxygen Vacancy Ordering in the Reduced Forms of $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4-\delta}$ ".
87. "Crystallographic and Magnetic Structure of $\text{Nd}_{1.8}\text{Sr}_{0.2}\text{NiO}_{4-\delta}$ ".

I.C.M. Edinburgh (United Kingdom). 2-6 September 1991.

88. "Cation Distribution and Intrinsic Magnetic Properties of Co-Ti Doped M-Type Barium Ferrite".
89. " μ +SR study of Magnetic Order in $\text{La}_2\text{NiO}_{4+\delta}$ ".

EUREM - 91. Bristol (United Kingdom). September 1991.

90. "Microstructural study of the LaNiO_{3-x} system".
91. "HREM Study of $\text{YBa}_2\text{Cu}_3-x\text{Fe}_x\text{O}_{7+\delta}$ ".

ICMAS. Paris (Francia). 7-8 Octubre 1991.

92. "Microstructure and Oxygen Content in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4\pm\delta}$ ".

76 REUNIÓN DE LA A.F.A. Tucumán. (Argentina). October 1991.

93. "Magnetism in the $\text{CaFe}_2\text{Mn}_2\text{O}_{3n-1}$ system".

MRS SPRING MEETING. San Francisco (EE.UU). 27 April - 1 May 1992.

94. "Microstructural study of the $\text{REBa}_2\text{Fe}_3\text{O}_{8+y}$ perovskite related system".
95. "Interstitial oxygen and order in $\text{RE}_2\text{NiO}_{4-\delta}$ (RE = La, Nd)".

EUREM - 92. Granada (Spain). 7-11 September 1992.

96. "A new $\text{La}_2\text{NiO}_{4+\delta}$ superstructure".
97. "A study by SEM of iron oxide small particles".
98. "Ordered defects on the perovskite-related system $\text{REBa}_2\text{Fe}_3\text{O}_{8+y}$ (I)".
99. "Ordered defects on the perovskite-related system $\text{REBa}_2\text{Fe}_3\text{O}_{8+y}$ (II)".
100. "SEM and TEM study of metallic nanoparticles dispersed on SnO_2 ".

12th ISRS - INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS. Madrid (Spain). 24-30 September 1992.

101. "Synthesis of mixed oxides by decomposition of polymeric acids".
102. "Synthesis of SnO_2 metallic nanoparticles".
103. "Synthesis of cassiterite by pyrolysis of an aerosol".
104. "Influence of the synthetic method on the TiO_2 texture".
105. "Influence of the Synthetic route on the BaFe_2O_9 properties".
106. "Compositional variations and structural disorder in BaMnO_3-y ".
107. "A high temperature study of the BaFeO_3-y system".
108. "Thermogravimetric and microstructural studies on $\text{YBa}_2\text{Cu}_3-x\text{Fe}_x\text{O}_y$ ".
109. "Nonstoichiometry in the $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\square}$ system".
110. "Phase transitions and oxygen content in the $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\square}$ system".
111. "Influence of the oxygen content on the stability of T' and T*-phases".

EUROSENSORS VI. San Sebastián (Spain). 5-7 October 1992.

112. "Synthesis, structure and gas sensitivity properties of pure and Pd-doped SnO_2 ".

LATIN-AMERICAN INORGANIC CHEMISTRY MEETING. Santiago de Compostela (Spain). 13-17 September 1993.

113. "Simple and multicomponent iron oxides generation by the pyrolysis method".
114. "Synthesis of TiO_2 by pyrolysis of an aerosol".
115. "Bioglass from the $\text{MgO-CaO-P}_2\text{O}_5\text{-SiO}_2$ system: Microstructure characterization and microanalysis".
116. "Influence of the synthetic method on the hydroxyapatite texture and morphology".
117. "Synthesis, structure and gas sensitivity properties of CuO-SnO_2 system".
118. "A HREM study of the $\text{LnBa}_2\text{FeO}_2$ system".
119. "Determination of the carbon impurities in the 2212 Bi-superconductor".
120. "Complex superstructures in the $\text{Pr}_{2-x}\text{Sr}_x\text{CuO}_{4-\delta}$ system".
121. "How many polytype can exist in the BaMnO_3 system?".
122. "Compositional variations and structural transitions in $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ ".
123. "ED and HREM study of the LaNiO_{3-y} system".

EIGHTH CIMTEC. Florence (Italy). 28 June - 4 July 1994.

124. "Synthesis of magnetic materials with small particle size".

125. "Control of structural type in Nd_{2-x}Sr_xNiO_y".

M2S-THSC IV. Grenoble (France). 5-9 July 1994.

126. "Electron and/or hole doping in Pr₂CuO₄".

127. "Magnetic properties of Nd_{2-x}Sr_xNiO_{4-δ} oxides".

128. "Oxygen vacancy ordering in La_{2-x}Sr_xNiO_{4-δ} (0 ≤ x ≤ 0.5): The structure and the microstructure investigated by neutron powder diffraction".

ICEM-13. Paris (France). 17-22 July 1994.

129. "Electron microdiffraction and TEM study of the new MCM 22 Zeolite".

130. "Fine structure of Hydroxyapatite studied by moire fringe contrast".

131. "HREM of BaMnO_{3-y} (0 < y ≤ 0.17)".

132. "Electron microscopy study of the Pr_{2-y}Sr_yCuO_{4-δ} system".

7TH INTERNATIONAL SYMPOSIUM ON CERAMICS IN MEDICINE. Turku (Finland). 28-30 July 1994.

133. "Fracture toughness evaluation of sintered hydroxyapatite".

11TH EUROPEAN CONFERENCE ON BIOMATERIALS. Pisa (Italy). 10-14 September 1994.

134. "Design of composite hydrogels with sensitivity to the change of pH".

135. "Synthesis and characterization of new biomaterials based on alumina/poly (l-lactic acid)/poly(methylmethacrylate) composites".

IV INTERNATIONAL WORKSHOP ON NON-CRYSTALLINE SOLIDS. Madrid (Spain). 20-23 September 1994.

136. "Characterization of nanocrystalline cobalt doped magnetite prepared by spray pyrolysis technique".

137. "Crystallinity evolution as a function of the thermal treatment in T_c type superconductors".

INTERNATIONAL CONFERENCE ON MAGNETISM. Poland. September 1994.

138. "Surface barrier and lower critical field of powdered PrCeCuO superconductor".

EUROSENSORS VIII. Toulouse (France). September 1994.

139. "Capacitance effects and gaseous adsorption on pure and doped polycrystalline tin oxide".

ISAM'95. 2nd NIRIM INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS. Tsukuba (Japan). 6-10 March 1995.

140. "HREM study on the Sr_{1-x}CaxCuO₂ system".

INTERNATIONAL CONFERENCE ON SHAPING OF ADVANCED CERAMICS. Mol (Belgium). 25-27 April 1995.

141. "Shaping of YBa₂Cu₃O₇-Y₂BaCuO₅ bulk superconducting composites".

3RD GIPS MEETING. Senigallia (Italy). 8-15 June 1995.

142. "γ-Fe₂O₃ from β-FeOOH obtained by different synthetic methods".

143. "SrTiO₃ thin films prepared by MOCVD from strontium and titanil β-diketonates".

144. "LaAlO₃: A buffer layer for HTSC deposition".

145. "Synthesis and characterization of hydroxyapatite and related materials".

V TH EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Montpellier (France). 4-7 September 1995.

148. "HERM of BaMnO_{3-y}".

12TH EUROPEAN CONFERENCE ON BIOMATERIALS. Oporto (Portugal). 10-13 Septiembre 1995.

149. "Preparation and "in vitro" release of ibuprofen from partially biodegradable composites of αalumina, PMMA and PLA".

150. "Fluoride delivery systems based on TiO₂-polyacrylic composites for surgical and dental applications".

THE 4TH EUROPEAN CONFERENCE ON ADVANCED MATERIALS AND PROCESSES (EUROMAT'95). Padua-Venice (Italy). 25-28 September 1995.

151. "Superconducting phase obtained by mechanical milling in the Sr-Cu-O sistem.

IV EUROCERAMICS CONFERENCE. Riccione (Italy). 2-6 October 1995.

152. "Degradative behaviour of biomaterials based on alumina/PLLA/PMMA composites.

153. "Ceramic-polymer precursor for YBCO Superconducting fibers.

HCM NETWORK FLUX PINNING IN HIGH TEMPERATURE SUPERCONDUCTORS. Barcelona (Spain). 12-13 April 1996.

- 154. "Ceramic polymer precursor for YBCO superconducting fibers".
- 155. "SrTiO₃ thin films prepared by MOCVD from strontium and titanium β-diketonates.
- 156. "LaAlO₃: a buffer layer for HTSC deposition".

ISMANAM'96. Rome (Italy). 20-24 April 1996.

- 157. "Synthesis and characterization of CeO₂ obtained by spray pyrolysis method".

FIFTH WORLD BIOMATERIALS CONGRESS. Toronto (Canada). 29 May- 2 June 1996.

- 158. "Non stoichiometry in calcium hydroxyapatites determined from their calcination products by the Rietveld method".
- 159. "Role of TiO₂ Bioceramic on the release of fluoride from hydrophobic and hydrophilic composites with acrylic polymers".
- 160. "Selective release of R(-) and S(+) stereoisomers of ibuprofen from composites of Al₂O₃/PLLA/PMMA for orthopaedic surgery".

EUREM'96. Dublin (Ireland). 26-30 August 1996.

- 161. "Framework comparison of zeolites SSZ-25 and MCM-22 by electron microscopy and crystallographic image processing".
- 162. "Structural characteristics and HREM study of fine pyrosol synthesized zirconia".

XIII INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS. Hamburg (Germany). 8-12 September 1996.

- 163. "Synthesis and characterization of calcium deficient hydroxyapatite".
- 164. "Synthesis of ceramic/polymer/drug biocomposites at room temperature".
- 165. "Mechanical milling as an alternative route to produce superconducting oxides".
- 166. "Room and high pressure synthesis in the Sr-Ca-Cu-O system".
- 167. "Control of Structural type and particle size in alumina synthesized by the spray pyrolysis method".
- 168. "In situ growth of SrTiO₃ thin films prepared by AAMOCVD from strontium and titanium oxide bisdipivaloylmethanates".
- 169. "Influence of synthesis conditions on the γ-Fe₂O₃ properties".
- 170. "LaAlO₃ thin film deposited on Si(100) and MgO(100) substrates"
- 171. "Image processing and fine structure of hydroxyapatite particles".

26TH COURSE ELECTRON CRYSTALLOGRAPHY. Erice (Italy). 22 May - 2 June 1997.

- 172. "Structural modulations in the Sr-Ca-Cu-O System Characterized by HRTEM".

ESF-WORKSHOP ON THIN LAYERS AND COATINGS FROM AEROSOLS. Grenoble (France). 26-28 June 1997.

- 173. "Synthesis of perovskite buffer layers (SrTi O₃, LaAl O₃) for Y Ba₂ Cu₃ O₇ epitaxied films, by low and atmospheric pressure spray pyrolysis techniques.

V INTERNATIONAL WORKSHOP ON NON-CRYSTALLINE SOLIDS. Santiago de Compostela (Spain). 2-5 July 1997.

- 174. "High Temperature giant diamagnetism in ball milled Sr_{0.6}Ca_{0.4}CuO₂".
- 175. "Bone-like apatite layer formation on sol-gel glasses".
- 176. "Molecular orbital models of species involved in the bone bonding of bioactive glasses and glass-ceramics".
- 177. "Synthesis of perovskite buffer layers (SrTiO₃, LaAlO₃) by low and atmospheric pressure spray pyrolysis techniques".
- 178. "In vitro apatite formation on titania gel surfaces".
- 179. "Thin film preparation by AAMOCVD from barium and strontium β-diketonates".

EUCAS'97: THE THIRD EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY. Holland. 30 June-3 July, 1997.

- 180. "Synthesis of YBa₂Cu₃O_{7-x} tapes for high current applications by MOCVD"

ISMANAM-97. Sitges (Spain). 31 August - 5 September. 1997.

- 181. "Structure and magnetic properties of nanocrystalline spinel ferrites obtained by high energy ball milling from three different precursors"
- 182. "Fe₂O₃ thin films by the spray pyrolysis technique"
- 183. "Properties induced by mechanical milling in the system Sr_{1-x}CaxCuO₂

Vth EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Zürich (Switzerland), 17-20 September, 1997.

- 184. "Vibrational spectra of Phosphate Ions in Hydroxycarbonate Apatites from the Molecular Orbital Methods AM1 and PM3".
- 185. "Characterisation of apatite like layer formed on sol-gel glasses".
- 186. "Frustration Magnetic and Charge Ordering in La_{1-x}CaxMnO₃".

187. "Rietveld and TEM studies of Calcium-deficient Hydroxyapatite".
188. "Mechanochemical Synthesis and Characterization of Nanocrystalline Spinel Ferrites".

CHEMICAL VAPOR DEPOSITION: XIV INTERNATIONAL CONFERENCE AND EUROCVI-II. Paris (France), September 1997.

189. "Synthesis of YBa₂Cu₃O_{7-x} tapes for high current applications by MOCVD".

10th INTERNATIONAL SYMPOSIUM ON CERAMICS IN MEDICINE, Paris (France), 5-9 October, 1997

190. Structure and solvation effects of PO₄³⁻, HPO₄²⁻, H₂PO₄⁻ and H₃PO₄ from AM1 and PM3

4th FGIPS MEETING IN INORGANIC CHEMISTRY. Corfu, (Greece), 14-18 October, 1997.

191. "Practical applications of thin films and powders obtained by low and atmospheric pressure spray pyrolysis: buffer layers and catalysts".
192. "Giant magnetoresistance in the perovskite-related La-Ca-Mn-O System"
193. "Structural modifications in GaLaCaCuO₅ induced by external pressure".

INTERNATIONAL CONGRESS ON ELECTRON MICROSCOPY, ICEM-14. Cancún, (Mexico), 30 August - 4 September, 1998.

- 194.- "Vacancy ordering in the La_{1-x}Ca_xMnO₃-system".
195. "Usefulness of crystallographic image processing to solve basic structural aspects of zeolites by TEM".

11th INTERNATIONAL SYMPOSIUM ON CERAMICS IN MEDICINE. New York (USA), 6-8 November, 1998.

196. "Processing of Porous Hydroxyapatite by Starch Consolidation"
197. "Cathodoluminescence Study of the Apatite Like-Layer on Bioactive Sol-Gel Glasses"
198. "Relationship Between Bioactivity and Textural Properties in Glasses"

3º ENCONTRO INTERNACIONAL SOBRE INOVAÇÃO TECNOLÓGICA EN PROCESSOS E PRODUCTOS DA INDÚSTRIA CERÂMICA REVESTIMENTOS, SANITÁRIOS, LOUCAS DE MESA E CERÂMICA ESTRUTURAL. Florianópolis S.C. (Brazil), 11-13 November 1998.

199. "Synthesis of bioactive glasses"
200. "In vitro study of bioactive glasses"
201. "Method of calcium deficient hydroxyapatite"

15TH EUROPEAN CONFERENCE ON BIOMATERIALS. Bordeaux (France). 8-12 September, 1999.

202. "Mineralization of biphasic α -TCP/HAP and commercial HAP powders".

VIIth EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Madrid (Spain), September 15-18, 1999.

203. "Calcium phosphates synthesized by aerosol pyrolysis".
204. "Reactivity of sol-gel glasses on simulated body fluids".
205. "Ba Fe₁₂ O₁₉ textured thin rods produced by the laser floating zone method".
206. "Controlled crystallization of calcium phosphate apatites".
207. "Synthesis and in vitro study of new glass-ceramics of the CaO-MgO-P₂O₅-SiO₂ system for use as implant materials".
208. "In Vitro growth of an apatite-like layer on CaO- P₂O₅-SiO₂ glasses obtained via sol-gel".
209. "Vacancy ordering in Nd_{2-x}M_xNiO_y (M=Sr, Ca) (0 ≤ x ≤ 0.8)".
210. "A HREM study of hydroxyapatite and β -tricalcium phosphate".
211. "Structural characterization of La-doped apatite.
212. "Study of porosity in bioactive glasses".
213. "New two-step treatment for improving implant-bone fixation: chemical deposition of apatite on blasted-rough bioactive-titanium surfaces".
214. "Oxidation and reduction processes in the La_{1-x}Ca_xMnO₃ system".
215. "Study of in vitro release and bioactivity in PMMA/PEMA/Ohap/GENTAMICIN composites".
216. "In vitro bioactivity and gentamicin release from glass-polymer-antibiotic composites".

EUCAS'99. 4th EUROPEAN CONFERENCE ON APPLIED SUPERCONDUCTIVITY. Sitges, Barcelona (Spain), 14-17 September, 1999.

217. "In plane aligned YBCO Thick Films on Ag and LaAlO₃ Substrates by ultrasonic Mist Pyrolysis".

12th INTERNATIONAL SYMPOSIUM ON CERAMICS IN MEDICINE. Nara (Japan), 8-11 October, 1999

218. "Structure and surface properties of the apatite growth on gel glasses".
219. "Mechanochemistry: a new route for the preparation of carbonateapatite".

5th FGIPS MEETING IN INORGANIC CHEMISTRY, Toulouse (France), 26-31 October, 1999

220. "In vitro study of CaO-SiO₂ sol-gel glasses".
221. "Thin films of La_{0.7}Ca_{0.3}MnO₃".

- II CONGRESO INTERNACIONAL DE BIOMATERIALES. La Havana (Cuba), 1-5 November, 1999
222. "Influence of OHAP and Gentamicina content in antibiotic release from OHAP/PEMA/PMMA composites"
- NANOS 2000. Odeillo/Font-Romeu (France), 25-28 January, 2000
223. "Aerosol technique for the elaboration of ultrafine powders and thin films".
- SIXTH WORLD BIOMATERIALS CONGRESS. Kamuela, Hawaii (USA), 15-20 May, 2000
224. "In vitro formation of apatite on a sol-gel glass at physiological pH"
225. "New two-step treatment on commercially pure titanium for improving implant-bone fixation".
- BIOMINERALIZATION OF IMPLANT MATERIALS. Lisbon, (Portugal) 15 June, 2000
226. "Apatite deposition on a sol-gel glass soaked in a simulated physiological fluid".
- 12th EUROPEAN CONGRESS ON ELECTRON MICROSCOPY. Berno, (Czech Republic), 9-14 July, 2000.
227. "TEM on hydroxyapatite and β -tricalcium phosphate".
- XIVth INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS. Budapest (Hungary), 27-31 August 2000.
228. "Variation of the magnetic properties of $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_y$ as a function of synthetic route".
229. "Influence of the Ca content in the metallic behavior of colossal magnetoresistant manganites".
- BIOÁVILA 2000. I IBERIAN CONGRESS ON BIOMATERIALS AND BIOSENSORS. Ávila (Spain), 17-20 September 2000.
230. "Drug release from bioactive glass-polymer composites".
231. "Methods to obtain and process stoichiometric and non-stoichiometric apatites".
232. "Preparation and study of bioactive sol-gel glasses".
233. "Influence of the chemical etch on the in vitro bioactivity of a $\text{CaO-MgO-P}_2\text{O}_5\text{-SiO}_2\text{-CaF}_2$ glass ceramic".
- ICfe'4: 4th INTERNATIONAL CONFERENCE ON F-ELEMENTS. Madrid (Spain), 17-21 September, 2000.
234. " $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ a versatile system: from antiferromagnetism through colossal magnetoresistance to charge ordering.
- 13th INTERNATIONAL SYMPOSIUM ON CERAMICS IN MEDICINE. Bologna (Italy), 22-26 November, 2000.
235. "Control of crystallinity and composition in calcium phosphate coatings".
236. "Synthesis and characterisation of silicon-substituted hydroxyapatite".
- 8th EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Oslo (Norway), 4-7 July, 2001.
237. "Role of CaII in the magnetic and transport properties of the $\text{La}_{1-x}\text{Ca}_x\text{MnO}_y$ system".
238. "Thermal treatment influence on bioactive glasses".
- 6th FIGIPS MEETING IN INORGANIC CHEMISTRY. Barcelona (Spain), 15-20 July, 2001.
239. "Role of compositional variations in the magnetic and electric properties of the $\text{La}_{1-x}\text{Ca}_x\text{MnO}_y$ system".
240. "Bioactive and magnetic biphasic materials".
241. "Bioactivity of three $\text{CaO-P}_2\text{O}_5\text{-SiO}_2$ gel glasses".
- MICROSCOPY. Barcelona (Spain), 4-7 September, 2001.
242. "In Vitro behaviour of bioactive sol-gel glasses"
243. "Microstructural characterization of 123 superconducting films deposited on different substrates".
244. "Radiation damage in B-doped SrAl_2O_4 ".
- 11TH INTERNATIONAL WORKSHOP ON GLASSES, CERAMICS, HYBRIDS AND NANOCOMPOSITES FROM GELS. Abano Terme (Italy), 16-21 September, 2001.
245. "Long-lasting phosphorescent pigments of the type $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{R}^{3+}$ ($\text{R}=\text{Dy}, \text{Nd}$) synthesized by the sol-gel method"
246. "SiO₂-CaO films for applications in biomaterial"
247. "Drug release and in vitro assays of bioactive polymer/glass mixtures".
248. "Mesoporous MCM-41 as drug host system".
249. "In vitro bioactivity of new hydroxyapatite/sol-gel glass biphasic material".
- EURO CERAMICS VII. 2001.
250. "Stabilization of monoclinic SrAl_2O_4 through the formation of solid solutions of the type $\text{SrAl}_2\text{-XBxO}_4$ ".

- 2002 ANNUAL MEETING AND EXPOSITION. SOCIETY FOR BIOMATERIALS. Tampa, Florida (USA), 24-27 April, 2002.
251. "Study of the activation energy for silicon release in different bioactive glasses"
- 15th INTERNATIONAL CONGRESS ON ELECTRON MICROSCOPY. Durban (South Africa), 1-6 September, 2002. (Proceedings ISBN: 0-620-29294-6)
252. "In vitro bioactivity of three carbonatehydroxyapatite/glass biphasic materials".
253. "HRTEM characterization of high Jc YBCO thick films grown by LPE".
- 17th EUROPEAN CONFERENCE ON BIOMATERIALS. Barcelona (Spain). 11-14 September, 2002.
254. "Biactivity evaluation of SiO₂ based glasses by measuring the activation energy for silica release".
255. "Influence of bioactive-glass particle size on the behaviour of osteoblast-like cells in culture".
256. "Effect of hydroxyapatite on the features of calcium sulphate cements".
257. "In vivo behaviour of calcium phosphate cement".
258. "Synthesis of hydroxyapatite by liquid mix technique".
259. "Combination of burn-out and gel-casting methods to obtain porous hydroxyapatites".
260. "β-TCP as a standard for x-ray quantification of CaP phases".
261. "Mineralization of apatite-αTCP ceramics in different SBF media".
262. "Influence of temperature on the in vitro bioactivity of OHAp/GLASS biphasic materials".
263. "Apatite formation on a sol-gel glass at pH 7.3".
264. "Bone defect treatment by using bioactive glass and glass-ceramic. An experimental model in rabbits".
- MATERIALS RESEARCH SOC. SYMPOSIUM PROC. "Self-Assembled Nanostructured Materials". MRS Spring Meeting. San Francisco (EEUU), 20-25 April, 2003.
265. "Encapsulation of ibuprofen in mesoporous silica: solid state NMR characterization".
- EUROMAT 2003. EUROPEAN CONGRESS AND EXHIBITION ON ADVANCED MATERIALS AND PROCESSES. Lausanne (Switzerland), 1-5 September, 2003.
266. "CaO-SiO₂-PDMS Hybrids For Clinical Applications".
- 3rd EUROPEAN CONFERENCE ON NEUTRON SCATTERING. Montpellier (France), 3-6 September, 2003.
267. "Neutron scattering for the study of improved bone implants".
- 9th EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Stuttgart (Germany), 3-6 September, 2003.
268. "MCM-41 as drug matrixes: control of Delivery Rate".
269. "Irradiation damage in B-doped SrAl₂O₄".
- 16th INTERNATIONAL SYMPOSIUM ON CERAMICS IN MEDICINE. BIOCERAMICS 16. Oporto (Portugal), 6-9 November, 2003.
270. "Textural evolution of a sol-gel glass surface in sbf".
271. "Bioactive behaviour in biphasic mixtures of hydroxyapatite sol gel glasses in the system SiO₂-CaO-P₂O₅".
272. "Concentrated suspensions of hydroxyapatite for gel casting shaping".
273. "Ceramics in vitro mineralization protocols: a superaturation problem".
274. "Calcium phosphate porous coating onto alumini substrates by liquid mix method".
275. "Apatite layers by a sol-gel route".
276. "Bioactive organic-inorganic hybrids based on CaO-SiO₂ sol-gel glasses".
277. "In vitro bioactivity in glass-ceramic /PMMA-CO EHA composites".
- XVth INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS. Kyoto (Japan), 9-13 November, 2003.
278. "Textural properties of CaO-SiO₂ glasses for use in implants".
279. "Hexagonal ordered mesoporous material as a matrix for the controlled of amoxiciline".
280. "Synthesis of β-tricalcium phosphate in layered or powdered forms for biomedical applications".
281. "Extended defects and reactivity in YBCO films".
282. "Ferro-antiferromagnetic transition in lightly doped manganites".
- IIIème RENCONTRE FRANCO-ESPAGNOLE SUR LA CHIMIE ET LA PHYSIQUE DEL'ETAT SOLIDE. Montpellier (France), 30 March-2 April, 2004.
283. "Mesoporous materials: drug delivery systems and/or tissue engineering scaffolding".
284. "Silicon containing apatites for bone repairing".
285. "Segregación de fases magnéticas en la región rica en calcio del sistema La_{1-x}CaxMnO_y".
286. "Biphasic materials HA/β-TCP synthesized by crystallization method".
- 7th INTERNATIONAL CONFERENCE ON SPECTROSCOPIES IN NOVEL SUPERCONDUCTORS. SNS 2004. Sitges (Spain), 11-16 July, 2004
287. "Evolution of magnetic behaviour in oxygen deficient LaMnO_{3-δ}"

288. "Influence of Mn²⁺ in the Magnetic Behaviour of Manganese Related-Perovskites"

13th EUROPEAN MICROSCOPY CONGRESS. Antwerp (Belgium), 22-27 August, 2004

289. "Nanostructure of CaO.SiO₂-based bioglasses and biohybrids"

2004 MRS FALL MEETING. Boston (USA). 29 November – 3 December, 2004

290. "Bioactive organic-inorganic hybrid aerogels"

KICK-OFF MEETING, FAME NET. Bordeaux (France), 11 February, 2005

NANOTECH 2005. Anaheim (EEUU), 8-12 May, 2005

291. "Porosity measurements of new lyophilized chitosan nanobiomaterials submitted to a sterilization process"

292. "Pore size control of new lyophilized nanobiomaterials for tissue engineering"

E-MRS 2005 SPRING MEETING. Strasbourg (France), 31 May - 3 June, 2005.

293. "P-Containing ormosils for bone reconstruction"

294. "Star gel hybrid materials with medical applications"

10th EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Sheffield (United Kingdom), 29 August-1 September 2005.

295. "Bioceramic materials for bone reconstruction". Invited Conference

296. "The influence of Si-doped calcium phosphates microstructure on the in vitro biological response". (FAME poster competition winner)

297. "Organic-inorganic hybrid solids for bone replacement".

9th EUROPEAN CONFERENCE ON BIOMATERIALS. Sorrento (Italy), 11-15 September, 2005.

298. "Room temperature synthesis of chitosan/apatite powders and coatings".

299. "In vitro Bone Cell Proliferation on Nanocrystalline Silicon Substituted Hydroxyapatites"

300. "The influence of sintering temperature and composition on osteoblastic like-cells onto HA and BCP ceramics"

301. "MCM-41: Biomedical applications"

302. "SiO₂-CaO-PDMS-DEPETES Bioactive Ormosils"

303. "Room temperature shaping of agarose/sol-gel glass pieces"

304. "CaO-P₂O₅-SiO₂-PVAl Hybrids as Precursors of Glasses with Tailored Textural Properties"

305. "Mechanical Characterization of Bioactive Hybrids Based on Sol-Gel Glasses"

306. "Erythromycin release in mesoporous materials: Study of the bioactivity in vitro behavior"

307. "Long term degradation of poly(ϵ -caprolactone) films in biologically related fluids"

308. "Porous pieces of HA/sol-gel mixtures with designed porosity: Biocompatibility assay"

309. "Development of Biodegradable Grafts in Paediatric Cardiovascular Surgery by Tissue Engineering Techniques"

8TH INTERNATIONAL SYMPOSIUM BIOMATERIALS AND BIOMECHANICS. Essen (Germany). 21 September, 2005.

310. "Bone repair and regeneration: possibilities".

A FORECAST OF THE FUTURE FOR BIOMATERIALS. London (United Kingdom). 29-30 September 2005.

311. "From the bioactive glasses to the star gels".

INTERNATIONAL MEETING ON "RECENT DEVELOPMENTS IN METAL OXIDES AND RELATED MATERIALS". Bangalore (India). 9-11 January, 2006.

312. "Bone replacement and regeneration applications: are bioceramics up to the job?"

INTERNATIONAL SYMPOSIUM ON INORGANIC INTERFACIAL ENGINEERING. I, Stockholm University, Sweden, 20-21 June, 2006.

313. "Anionic mesoporous silicates as carriers for controlled drug delivery systems".

5TH INTERNATIONAL MESOSTRUCTURED MATERIALS SYMPOSIUM, IMMS-2006. Shanghai (China), August 5-7, 2006

314. "A highly ordered mesoporous bioactive glasses with bicontinuous cubic structure".

ELECTRON MICROSCOPY. INTERNATIONAL SYMPOSIUM ON ZEOLITES AND MICROPOROUS CRYSTAL (ZMPC-2006). Yonago (Japan), 30 July – 2 Aug, 2006

315. "Study of highly bioactive mesoporous SiO₂-CaO-P₂O₅ membranes by Transmission".

BIOMATERIALS 2006. ANNUAL MEETING OF THE GERMAN SOCIETY OF BIOMATERIALS (DGBM). Essen (Germany). 5-8 September, 2006

316. "Carbonated Hydroxyapatite as host for the ibuprofen release".

MRS FALL MEETING 2006. Boston (USA), 27 November - 1 December, 2006.

317. "Two-Dimensionally Patterned Layers of functionalised calcium phosphate nanoparticles by a combination of electrophoresis and laser direct writing".

20th EUROPEAN CONFERENCE ON BIOMATERIALS. Nantes (France), 27 October, 2006.

318. "Controlled release studies of bovine serum albumin from large-pore ordered mesoporous materials".

319. "Effect of the surface functionalization, pore size and pore connectivity in the controlled release of alendronate sodium from hexagonally ordered mesoporous materials".

320. "Porous scaffolds with designed architecture obtained from a bioactive sol-gel glass".

321. "Glass-glass ceramic thermoseeds for hyperthermic treatment of bone tumor".

322. "Synthesis and characterization of ordered mesoporous bioactive glasses".

323. "In vitro bioactivity of Ca and P-doped methacryloxy-diamine ormosils".

5th INTERNATIONAL CONFERENCE ON INORGANIC MATERIALS. Ljubljana (Slovenia), 23-26 September, 2006.

324. "Bioceramics and Pharmaceuticals: a remarkable synergy". Oral

325. "Metal-Organic-Frameworks as new Materials for Drug Delivery". Poster

326. "Star Gels for medical applications". Poster

327. "Adsorption model of amino acids on ordered mesoporous silica materials". Poster

ESAFORM. Zaragoza (Spain). 19-21 April 2007.

328. "Ceramic matrices with two clinical applications: biomaterials and drug delivery systems". Conferencia plenaria.

EUROPEAN SCIENCE FOUNDATION. Paris (France), May 2007.

329. "Porous materials as controlled drug release systems". Invited Conference.

ECSSC XI THE 11th EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Caen (France), 2007.

330. "Mesoporous magnetic microspheres for drug targeting".

331. "Magnetoresistance in brownmillerite-related materials".

332. "Novel method to synthesize ordered mesoporous silica with high surface areas".

V RECONTRE FRANCO-ESPAGNOLE SUR LA CHIMIE ET LA PHYSIQUE DE L'ETAT SOLIDE. Clermont-Ferrand (France), 2-4 April, 2008.

333. "Flexible Porous Metal-Organic-Frameworks as drug carriers".

334. "Surface modification of magnetic nanoparticles".

335. "Controlled delivery systems based in bioactive mesoporous silicas: application in bone tissues regeneration".

INTERMAG 2008. Madrid (Spain), 4-8 May, 2008

336. "Complex magnetic behaviour in anion deficient manganite superstructure".

8TH WORLD BIOMATERIALS CONGRESS. Amsterdam (Holland), 28 May-1 June, 2008.

337. "Highly Bioactive Mesoporous Glass with 3D-cubic bicontinuous structure".

338. "Control of Alendronate Dosage in Mesoporous Silica Delivery Systems".

339. "Highly ordered bioactive mesoporous microspheres for periodontal treatment".

340. "Bacterial adherence to bioceramics: influence of ceramic surface properties and pH of the surrounding medium".

341. "SBA-15 mesoporous bioceramic functionalized and loaded with PTHrP (107-111): biological effects in osteoblasts". 342. "Mechanical characterization of bioceramics/agarose scaffolds".

343. "L929 fibroblast and Saos-2 osteoblast response to hydroxyapatite/beta-TCP/agarose biomaterial".

344. "Biocompatibility studies of glass-glass ceramic thermoseeds for hyperthermic treatment of bone tumours".

345. "Mesocellular Foams as Protein Delivery Systems".

4th FEZA CONFERENCE. Paris (France), 2-6 September, 2008.

346. "Metal-organic-frameworks as new materials for drug delivery".

31st ANNUAL MEETING. BRITISH ZEOLITE ASSOCIATION. Keele University (United Kingdom), 31 March - 2 April 2008.

347. "Large pore mesoporous silicas for application in protein adsorption, enzyme immobilisation and drug delivery".

FIFTH LATIN-AMERICAN CONGRESS ON ARTIFICIAL ORGANAS AND BIOMATERIALS. Brazil, 22-25 June, 2008.

348. "Promising trends of bioceramics in the biomaterials fields".

EORS 2008. EUROPEAN ORTHOPAEDIC RESEARCH SOCIETY. Madrid (Spain), 24-26, April 2008.
349. "Mesoporous bioceramics coated with PTHrP (107-111) stimulates osteoblastic function in vitro"
350. "Effect of a glass-ceramic over a MSCS population. An in vitro study".

1ST HYBRID MATERIALS CONFERENCE. SYMPOSIUM A – BIOHYBRIDS AND BIOMATERIALS. FEATURED LECTURE 8 – Tours (France), 15-19 March 2009

- 351. "Evolution of Ceramics in the biomaterials field"
- 352. "Porous metal-organic-frameworks as new drug carriers"
- 353. "Time-delayed release of bioencapsulates for bone implant technologies"
- 354. "Amine functionalized BSA-15 by covalent anchoring of dendritic macromolecules"

3rd INTERNATIONAL CONGRESS OF HISTOLOGY AND TISSUE ENGINEERING. Fac. of Medicine. Univ. Castilla-La Mancha. Albacete (Spain), 8-11 July, 2009.

- 355. "Three-dimensional interconnected macroporous agarose / carbonated hydroxyapatite scaffold improve the bone restoration".
- 356. "Soft tissue response to 3D macroporous scaffolds of agarose/nanometric carbonated hydroxyapatite in subcutaneous implants".

22nd EUROPEAN CONFERENCE ON BIOMATERIALS - ESB2009. Lausanne (Switzerland), 7-11 September, 2009.

- 357. "Mechanical Behaviour of Bioactive Organic-Inorganic Hybrids"
- 358. "Mimetic Biomaterials in Compromised Bone Repair: PTHrP peptide (107-111)-releasing Silica Mesoporous Biomaterial Improves Bone Neof ormation in an Experimental Model of Osteoporosis."
- 359. "Influence of Organic Templates on the Crystallization of Calcium Phosphates"
- 360. "Potential Smart biomaterials: Carbon Nanotubes - Mesoporous Silica composites".
- 361. "Porous Hydroxyapatite coatings"
- 362. "Spherical mesoporous drug delivery systems with in vitro bioactive behavior"
- 363. "Biocompatible magnetic mesoporous silica spheres for intratumor hyperthermia therapy".
- 364. "Macroporous foam-like hydroxyapatite for bone regeneration"
- 365. "Bioactivity and Biocompatibility of hierarchical porous hydroxyapatite thin films"

ASBMR 31st ANNUAL MEETING. Colorado, USA. 11-15 September, 2009.

- 366. "PTHrP (107-111) Loaded into Mesoporous Bioceramics Improves Bone Regeneration Following a Cavitary Defect in Rabbits"

ECSSC XII THE 12th EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Munster (Germany), 20-23 September, 2009.

- 367. "Incorporation of magnetic nanoparticles into mesoporous silica spheres".

WORD CONFERENCE ON REGENERATIVE MEDICINE, Leipzig (Germany), 29-31 October, 2009.

- 368. "In vitro evaluation of glass-glass ceramic thermoseed effects on proliferation of human osteosarcoma cell line after exposition to external magnetic fields"

2nd CHINA-EUROPEAN SYMPOSIUM ON BIOMATERIALS IN REGENERATIVE MEDICINE. Barcelona (Spain), 16-20 November, 2009.

- 369. "Highly bioactive mesoporous glasses mimicking biological calcium phosphate maturation under in vitro conditions"
- 370. "Multifunctional magnetic mesoporous silica spheres for targeted drug delivery and cancer treatment by hyperthermia."
- 371. "Nanostructural basis of the in vitro bioactivity of CaO-SiO₂-PDMS Aerogels"

WORKSHOP NANO09. SHAPING THE FUTURE. GRAND CHALLENGES & NEW TRENDS IN NANOSCIENCE TECHNOLOGIES. Braga (Portugal), 10-11 December, 2009.

- 372. "Magnetic Nanosystems for cancer therapy: from hyperthermia treatment to gene transfection"

6TH INTERNATIONAL KEY SYMPOSIUM ON NANOMEDICINE. Stockholm (Sweden), 9-11 September, 2009.

- 373. "Ordered mesoporous silica matrices: bioactive and controlled delivery systems"
- 374. "Increasing Osteoblast activity using bioceramics loaded with osteogenic PTHrP".

WORKSHOP STRUCTURAL ASPECTS OF BIOCOMPATIBLE FERROFLUIDS: STABILIZATION, PROPERTIES CONTROL AND APPLICATION. GKSS RESEARCH CENTRE. Geesthacht (Germany), 28-29 January, 2010.

- 375. "Mesoporous magnetic particles. Integrated systems for hyperthermia treatment and drug delivery"

- 34TH INTERNATIONAL CONFERENCE & EXPOSITION ON ADVANCED CERAMICS & COMPOSITES. Daitona (EEUU), 25-28 January, 2010.
376. "Multinuclear solid state NMR characterization of substituted hydroxyapatites"
- A MATERIAL WORLD: IS SEEING BELIEVING?. SYMPOSIUM TO CELEBRATE THE CAREER OF PROFESSOR OSAMU TERASAKI. Stockholm University (Sweden), 26/28 May, 2010.
377. "Spherical mesoporous silica particles with biomedical applications".
- 23rd EUROPEAN CONFERENCE ON BIOMATERIALS - ESB2010. Tampere (Finland), 11-15 September, 2010.
378. "Antibiotic releasing from mesoporous ceramics: Local delivery in bone infections".
379. "Synthesis of zwitterionic surfaces based in bifunctional silica ordered mesoporous materials "
380. "Design and fabrication of hierarchical macro-mesoporous SiO₂-P₂O₅ scaffolds for bone tissue engineering "
381. "Synthesis and characterization of Ce₂O₃, Ga₂O₃ and ZnO containing mesoporous bioactive glasses "
382. "Dendrimer Based Nanosystems for Gene Magnetofection in Tumour Cells "
383. "Protein anchoring in silicon doped hydroxyapatite 3D-scaffolds via biotinylation "
384. "Reversible DNA/Magnetic Nanoparticle Gates for Stimuli-Responsive Drug Release "
385. "Precipitation of Calcium Phosphates in the Presence of Ionic Surfactants "
386. "Functionalisation of mesoporous bioglasses for long-term anti-osteoporotic drug delivery "
- 17th INTERNATIONAL MICROSCOPY CONGRESS. Río de Janeiro (Brazil), 19-24 September, 2010
387. "Carbon nanotubes-mesoporous silica composites for biomedical applications "
388. "A nanostructured approach to artificial maxillofacial materials "
389. "STEM Spherical aberration corrected microscopy to detect drugs into silica mesoporous matrices".
- WORLDWIDE MAGNETIC RESONANCE CONFERENCE (WWMRC 2010). Florence (Italy), July 2010.
390. "New Methods for Solid-State NMR Simulations and Studies of Bio-mimetic apatite-Formation from Mesoporous Bioactive Glasses"
- ICMST 2010. INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MATERIALS SCIENCE AND TECHNOLOGY. Thiruvananthapuram, Kerala (India), 29-31 October, 2010
391. "HREM Characterization of Artificial Maxillofacial Materials "
392. "Carbon Nanotubes-Mesoporous Silica composites Charcterized by HREM "
393. "Cs Corrected Investigation fo Frug Delivery Systems".
- FIRST IOF-ESCEO PRE-CLINICAL SYMPOSIUM. Valencia (Spain), 22 March, 2010
394. "Si-hydroxyapatite with covalently linked or adsorbed osteostatin exhibits improved osteogenic capacity in osteoblastic cells".
- HYBRIDMATERIALS 2011 SECOND INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL, HYBRID AND NANOMATERIALS. Strasbourg (France), 6-10 March, 2011.
395. "Biofucitonalized hybrid mesoporous materials as local delibery systems of antiosteoporotic drugs".
396. "Bioactive dendritic networks for bone tissue repair".
397. "Organic.inorganic hybrid bioceramics for medical applications".
- 52ND EXPERIMENTAL NUCLEAR MAGNETIC RESONANCE CONFERENCE Asilomar, California (USA, April 2011.
398. "Biomimetic Apatite Mineralization Mechanisms of Mesoporous Bioactive Glasses as Probed by Multinuclear (31P, 29Si, 23Na, 13C, 1H) Solid State NMR".
- XXXIII Finnish NMR Symposium. Jyväskylä (Finland), June 2011.
399. "Biomimetic Apatite-Formation of Mesoporous Bioactive Glasses Probed by Solid-State NMR".
- 19th ANNUAL MEETING OF THE EUROPEAN ORTHOPAEDIC RESEARCH SOCIETY. Vienna (Austria), 1-2 September, 2011
400. "Osteostatin loaded onto a mesoporous ceramics improves early bone healing in a rabbit osteopenia model".
- 24th EUROPEAN CONFERENCE ON BIOMATERIALS. Dublin (Ireland), 4-8 September, 2011.
401. "Novel hydroxyapatite 3D macroporous scaffolds: In vitro degradability test and cell-response".
402. "In vivo performance of tridimensional biopolymer coated hydroxiapatite foams. Preliminar results".
403. "Nanostructured Calcium Phosphates from Phospholipids Templates".
404. "Synthesis of hydroxyapatite spheres using shaped acrylate-acrylamide copolymers as templates".
405. "Antimicrobial mesoporous coatings on titanium implants".
- ASBMR. San Diego (USA), 19-22 September, 2011

406. "Osteostatin improves the osteogenic capacity of fibroblast growth factor-2 coated onto sintered Hydroxyapatite in osteoblastic cells".

ECSSC XIII THE 13th EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Lund (Sweden). 25-28 September, 2011.

407. "Intriguing magnetic and electric behaviour in La_{0.5}Sr_{0.5}MnO_{2.5}".

408. "Design and quantification of FM clusters in Colossal Magnetoresistance Mn related perovskites".

9TH WORLD BIOMATERIALS CONGRESS. Chengdu (China), 1-5 June, 2012.

409. "Bioactive hybrids made of hyperbranched polyester networks".

410. "Mesoporous silica nanoparticles for clinical nanomedicine".

411. "Inhibition of bacterial adhesion on zwitterionic hydroxyapatite".

412. "A unified SBF test for bioactive glasses and their variants".

413. "Mesoporous Bioactive Scaffolds Prepared with Cerium, Gallium and Zinc Containing Glasses"

BIOPHARMACY MEETING 2012. The Hague (The Netherlands), 9 November, 2012

414. "Prodrug-loaded mesoporous silica nanoparticles for stimuli-responsive chemotherapy".

THIRD INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL, HYBRID AND NANOMATERIALS. Sorrento (Italy), 3-7 March, 2013.

415. "Amphoteric Hybrid Mesoporous Materials as Local Antibiotic Delivery Systems".

8TH INTERNATIONAL MESOSTRUCTURE MATERIALS SYMPOSIUM. Toward Practical Applications: Challenges and Breakthrough. Awaji island, Hyogo (Japan). 20-24 May, 2013.

416. "Mesoporous silica nanoparticles for the design of smart delivery nanodevices." Keynote lecture

417. "Synthesis and characterization of bifunctionalized mesoporous".

418. "Synthesis and characterization of mesoporous silica nanoparticles covered by polymeric-enzyme capsules".

44th WORLD CHEMISTRY CONGRESS. Istanbul (Turkey), 11-16 August, 2013.

419. "Novel hybrid nanodevices for in situ cytotoxic generation in antitumoral therapy"

420. "Light-responsive nanosystems for antitumor therapy".

XVII INTERNATIONAL SOL-GEL CONFERENCE 2013. Madrid (Spain). 25-30 August, 2013.

421. "Mesoporous bioactive glasses: Studies of the structure, porosity and local environment to explain their biological performance".

422. "Synthesis hydroxyapatite-mesoporous bioactive glass nanocomposite with enhanced biocompatibility".

EUROMAT 2013 . Seville (Spain), 8-13 September, 2013.

423. "Apatite coating on MCM-41 nanospheres".

424. "Antimicrobial and biocompatible mesoporous bioactive scaffolds containing gallium and zinc".

425. "In situ cytotoxic generation by stimuli-responsive mesoporous silica nanocarriers".

426. "Dual-targeted mesoporous nanocarriers for bone metastasis treatment".

427. "Light-responsive mesoporous silica nanocarriers for antitumoral therapy".

428. "Zwitterionic mesoporous bioceramics to treat bone implant infections".

SEHIT 2013. Logroño (Spain), 12-14 September, 2013.

429. "Hydroxyapatite based scaffolds with elastin-like polymers functionalized surfaces implanted in subcutaneous and bone tissue".

430. "Bone regeneration response in rats' jaws after the implantation of pthrp and a different-ways treated mesoporous bioactive glass".

CORS 2013 VENICE 8th COMBINED MEETING OF ORTHOPAEDIC RESEARCH SOCIETIES. San Servolo Venice (Italy), 13-16 October, 2013.

431. "Parathyroid hormone-related protein (107-111) improves the bone regeneration potential of biopolymer-coated nanocrystalline hydroxyapatite".

432. "Biocompatibility and antibacterial activity of bone scaffolds enriched with Gallium and Zinc". Poster.

VIII RECONTRE FRANCO-ESPAGNOLE SUR LA CHIMIE ET LA PHYSIQUE DE L'ETAT SOLIDE. Vila-Real (Spain), 2-4 April, 2014.

433. "Bioactive ceramics: biomaterials tailored for osteoporotic patients".

434. "Magnetic materials for cancer treatment by magnetic hyperthermia".

18 TH INTERNATIONAL SYMPOSIUM ON THE REACTIVITY OF SOLIDS ISRS. St. Petersburg (Russia), 9-13 June, 2014.

435. "Reactivity of zwitterionic mesostructured bioceramics".

436. "Reactivity of peroxide hydrogen on enamel teeth".

ANQUE-ICCE-BIOTEC. VIII INTERNATIONAL CONGRESS OF ANQUE: SCIENCE AND TECHNOLOGY OF MATERIALS. Madrid (Spain), 1-4 July, 2014.

437. "From bone replacements to therapies focused on drug delivery".

VIII INTERNATIONAL WORKSHOP ON SENSORS AND MOLECULAR RECOGNITION. Burjassot (Spain). 3-4 July 2015.

438. "Gated scaffolds for implant infection prevention".

3RD FRAGILITY FRACTURE NETWORK CONGRESS 2014. Madrid (Spain), 4 September, 2014.

439. "New biomaterials for osteoporotic bone".

ESB 2014. 26th ANNUAL CONFERENCE EUROPEAN SOCIETY FOR BIOMATERIALS. Liverpool (United Kingdom), 3-6 September, 2014.

440. "Larry's influences: from bioactive glasses to scaffolds for tissue engineering and nanoparticles for drug delivery".

E-MRS. 2014 FALL MEETING. Poland, 15-18 September, 2014.

441. "Drug delivery and bacterial anti-adhesive surfaces: possibilities".

442. "Nanostructured Biocompatible coatings to prevent orthopedic implant infections".

14th INSTRUMENTAL ANALYSIS CONFERENCE. Barcelona (Spain), 1-3 October, 2014.

443. "In vitro bioanalytical evaluation of functionalized mesoporous silica Nanoparticles for biomedical applications".

444. "Selenium nanoparticles: synthesis, characterization and application potential chemotherapeutic agents".

4th INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL, HYBRID AND NANOMATERIALS (HYBRID MATERIALS 2015). Sitges (Spain), 9-13 March, 2015.

445. "Mesoporous silica materials in hybrid nanosystems as smart delivery devices".

446. "A novel targeting agent based on metabodobzyl guanidine for NB Theg".

447. "Mesoporous silica nanoparticles functionalized with carbosilane dendrons: nonviral vectors for in vitro ssDNA oligonucleotides delivery".

448. "pH-responsive mesoporous silica polymer hubris nanosystems for antitumor therapy".

449. "Ultrasound-responsive hybrid mesoporous silica nanoparticles".

450. "Cisplatin prodrug in mesoporous silica nanoparticles: synthesis and in vitro redox-responsive release studies".

IX INTERNATIONAL WORKSHOP ON SENSORS AND MOLECULAR RECOGNITION. Valencia (Spain), 6-7 July, 2015.

451. "Enzyme-responsive gated mesoporous bioglass as controlled delivery system."

12TH EUROPEAN MEETING ON THE MOLECULAR BIOLOGY OF THE PNEUMOCOCCUS (EUROPNEUMO 2015). Oxford (United Kingdom), 7-10 July, 2015.

452. "Auranofin-PLGA nanoparticles as an alternative therapeutic tool against pneumococcal infections."

ESB 2015. 27th ANNUAL CONFERENCE EUROPEAN SOCIETY FOR BIOMATERIALS. Kraków (Poland), 30 August - 3 September, 2015.

453. "Nanocrystalline Hydroxyapatite Effects on M1 and M2 Macrophage Populations".

454. "Tailoring the Bioactivity of Mesoporous Bioglasses: the Role of the Structure Directing Agents".

2015 GISM ANNUAL MEETING (GRUPPO ITALIANO STAMINALI MESENCHIMALI). Brescia (Italy), 8-9 October, 2015.

455. "Decidua-derived Mesenchymal Stem Cells as therapeutic agents for the treatment of mammary tumors and as carriers of Mesoporous Silica Nanoparticles for future antitumoral application".

BIONANOMED 2016. 7TH INTERNATIONAL CONGRESS. NANOTECHNOLOGY IN MEDICINE & BIOLOGY. Krems (Austria), 6-8 April, 2016.

456. "Smart Mesoporous Bioactive Glasses for the Treatment of Bone Tumors.

457. "VEGF effects on endothelial progenitor cells cultured on silicon substituted and nanocrystalline hydroxyapatites".

458. "Nanocrystallinity effects on osteoblast and osteoclast response to silicon substituted hydroxyapatite".

10TH WORLD BIOMATERIALS CONGRESS. Montreal (Canada). 17-22 May, 2016.

459. "Development of mesoporous bioactive glasses able to release antibacterial Ga³⁺ ions".

460. "Copper-doped bioactive mesoporous glasses as multifunctional agent for bone regeneration".

461. "Tumor-targeted biopolymer capped mesoporous silica nanocarriers for intracellular acid-triggered drug release".
462. "Synergistic combination cancer therapy based in lectin-targeted pH-responsive mesoporous silica nanoparticles".
463. "Mesoporous glasses doped with therapeutic ions as smart platform for future, highly targeted therapies in tissue regeneration".
464. "Increase in VEGF secretion induced by particles of porous silica glasses containing CuO and SrO".

9th MEETING OF THE SCANDINAVIAN SOCIETY FOR BIOMATERIALS. Reykjavík (Iceland), 1-3 June, 2016.

465. "Design and preparation of biocompatible zwitterionic Ti6Al4V 3D scaffolds with antimicrobial activity".
466. "Multifunctional implant design for bone infection treatment".

NATIONAL CONGRESS (Oral communications not included)

IV NATIONAL MEETING OF MATERIALS. Oviedo (Spain). 19-21 October, 1993

- Moderator of session: Polymeric materials; ceramics, cement and glass; metal materials; sensors, catalysts, adsorbents and membranes.

XVII SYMPOSIUM OF THE IBERIAN SOCIETY OF BIOMECHANICS. SIB'94. Seville (Spain). 15-17 December, 1994.

- Invited to participate in Roundtable "BIOMATERIALS".

XXXII NATIONAL CONGRESS OF THE SPANISH SOCIETY OF ORTHOPEDIC SURGERY AND TRAUMA. SECOT. Seville (Spain). 2-6 October, 1995.

- Invited to participate in Roundtable "BIOMATERIALS".

I NATIONAL CONGRESS ON BIOMATERIALES. Ávila (Spain), 24-26 June, 1996.

- Member of the Scientific Committee.
- Organizer of the Roundtable "BIOCERAMICS".

XVIII SEME: BIENNIAL MEETING OF THE SPANISH SOCIETY FOR ELECTRON MICROSCOPY. Toledo (Spain) 15-18 April, 1997.

- Chairperson of thematic M3 session: "Study of materials as aggregates or nanocrystals".

BIOÁVILA 2000. XXIII

IBERIAN SOCIETY OF BIOMECHANICS AND BIOMATERIALS SYMPOSIUM. Ávila (Spain), 20 September, 2000.

- Member of the Scientific Committee.

XL NATIONAL CONGRESS OF THE SPANISH SOCIETY OF CERAMIC AND GLASS. Onda (Castellón, Spain), 8-11 November, 2000.

- Member of the Scientific Committee.

XXVIII BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. Madrid (Spain), 22-23 November, 2001.

- President.

APPLIED SCIENCE DAY FOR CERAMIC INDUSTRY. Castellón, 17 de julio de 2002.

- Paper.
- Participant in the Roundtable "Science applied to industry".

VII NATIONAL CONGRESS ON MATERIALS. Madrid (Spain), 16-18 October 2002.

- Moderator of session: "Health materials – Biomaterials".

XXIX BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. 7-11 July, 2003.

- Invited Conference: "Inorganic chemistry and regeneration of bone tissue".
- Session Moderator.

XXI REUNIÓN BIENAL DE LA SOCIEDAD DE MICROSCOPIA DE ESPAÑA. Cádiz (Spain). 28 September-1 October, 2003.

- Materials sesión Moderator.
- Award for best poster.

XXII BIENNIAL MEETING OF THE SPANISH SOCIETY FOR ELECTRON MICROSCOPY. Granada (Spain). 28 June-1 July, 2005.

- Session Moderator.

IZMM2007. Zaragoza (Spain). 22-25 July, 2007.

- Member of the Scientific Committee

XLVI CONGRESS SECV. Vall d'alba (Spain). 25-27 October, 2006.

- "Ceramics and health". Opening lectura

XXXI BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. Toledo (Spain), 9-14 September, 2007.

- Chairperson of session CP5.

CONFERENCES ON BONE SUBSTITUTE NEW BIOMATERIALS, EXPERIENCES AND CONTRIBUTIONS. MUTUA DE ACCIDENTES DE ZARAGOZA. Zaragoza (Spain), 25-26 October, 2007.

- Invited Conference.

SIBB BioBCN 2008. BIOENGINEERING INSTITUTE OF CATALUNYA. Barcelona (Spain) 17-19 September, 2008.

- Member of the Scientific Committee.

XXXII BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. Oviedo (Spain), 13-18 September, 2009.

- Invited Conference.

MEETING OF ORTHOPEDIC SURGERY AND TRAUMA SERVICE AT INFANTA ELENA HOSPITAL. Madrid (Spain), 10 December 2009.

- Invited Conference.

VI SCIENTIFIC SYMPOSIUM OF UNIVERSITY INSTITUTE OF MATERIALS. IUMA, 28-29 January, 2010.

- Invited Conference.

CONFERENCES OF THE ROYAL ACADEMY OF ENGINEERING. TECHNOLOGY AND MEDICINE. R.A.I. Madrid, 2 March, 2010.

- Session "B" Organizer.
- Colloquium Chair

CONGRESS OF MEDICAL ROYAL ACADEMY. Murcia (Spain). 26-29 May, 2010.

- Participant in the Roundtable "Bioengineering of bone tissue"

XI NATION CONGRESS OF MATERIALS. Zaragoza (Spain), 23-25 June, 2010

- Plenary Lecture

XIV SCIENTIFIC PLENARY MEETING OF CHEMISTRY. University of Cartagena (Spain). 12-15 September, 2010

- Plenary Lecture.

RESEARCH AND DEVELOPMENT OF ADVANCED THERAPIES CONFERENCE: INTRODUCTION IN REGULATORY ASPECTS. Instituto de Ingeniería de Cataluña (IBEC). Barcelona, Spain, 5 October, 2010.

- Participant.

CENTENARY OF FREE ACCESS OF SPANISH WOMEN TO COLLEGE. Universidad de Málaga (Spain), 15 October, 2010

- Plenary Lecture.

DAYS OF INNOVATION IN TRAUMA: BETWEEN BIOLOGY AND ROBOTICS. AMGEN, GLAXOSMITHKLINE. Barcelona (Spain), 26-27 November, 2010.

- Invited Conference.

FIRST SCIENTIFIC CONFERENCES OF THE INTERNATIONAL EXCELLENCE MONCLOA CAMPUS: ENERGY AND DIVERSITY. Madrid (Spain), 23-24 February, 2011.

- Member of the Scientific Committee of Materials cluster of CEI Moncloa.
- Presentation in "Materials for the future" Cluster.

VI CONGRESS OF THE SPANISH SOCIETY OF GENE THERAPY AND CELLULAR. Zaragoza (Spain), 21-23 September, 2011.

- Plenary Lecture.

5° CONGRESS OF THE SPANISH SOCIETY OF OSTEOPOROTIC FRACTURES. SEFRAOS. Barcelona (Spain), 27 January, 2012.

- Speaker Roundtable "Biomaterials and osteoporosis".

III COURSE ON BONE REGENERATION AND RECONSTRUCTION SURGERY IN ADVANCED PREPROSTHETIC . Spanish Society of Oral and Maxillofacial Surgery. Central Hospital of Defense Gómez Ulla, Madrid (Spain), 17-18 February, 2012

- Closing Plenary Lecture.
- Participant in the Roundtable: Tissue engineering in bone regeneration.

LII ANNUAL CONGRESS OF THE SPANISH SOCIETY OF CERAMIC AND GLASS. Burgos (Spain), 3-6 October, 2012.

- Invited communication.

FIRST MEETINGS OF THE NETWORK OF EXCELLENCE ON AGING: PREVENTION AND TREATMENT OF LOCAL OSTEOPOROTIC FRACTURES. Benicassim (Spain), 5-6 April, 2013.

- Coordinator.
- Opening Lecture

AGING AND OSTEOPOROSIS CONFERENCES: CURRENT SITUATION AND PERSPECTIVE FOR THE FUTURE. Ramón Areces Foundation. Madrid (Spain), 29 April, 2013.

- Coordinator.
- Opening Lecture
- Closing Lecture.

VIII SCIENTIFIC MEETING OF BIOINORGANIC. Burgos (Spain). 7-10 July, 2013.

- Plenary Lecture.

XXXIV BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. Santander (Spain), 15-18 September, 2013

- Plenary Lecture
- Roundtable: Contributions of Chemistry to Society: "The role of research institutes as a source of skilled employment "

LIV ANNUAL CONGRESS OF THE SPANISH SOCIETY OF CERAMIC AND GLASS. University of Extremadura. Badajoz (Spain), 19-22 November, 2014.

- Member of the Scientific Committee.

CANCER AS A RESULT OF AGING: POSSIBLE SOLUTIONS. Fundación Ramón Areces. Madrid (Spain), 3 November, 2015.

- Coordinator.
- Opening Lecture
- Closing Lecture.

LV NATIONAL CONGRESS OF THE SPANISH SOCIETY OF CERAMIC AND GLASS. Seville (Spain), 5-7 October, 2016.

- Member of the Scientific and Technological Committee.

NATIONAL CONGRESS (Communications)

XIV BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF PHYSICS AND CHEMISTRY. Seville (Spain). 29 September - 4 October, 1969.

1. "On the surface properties of neutral aluminum phosphate"

XV BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF PHYSICS AND CHEMISTRY. Tarragona (Spain), 27 September - 2 October, 1971.

2. "On the crystal structure of titanium oxalate"
3. "Characterization and thermal behavior of the $\text{AlPO}_4 \cdot 3\text{H}_2\text{O}$ "
4. "Influence of the synthesis method of TiO_2 in the anatase rutile temperature transformation"

XVI BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF PHYSICS AND CHEMISTRY. Oviedo (Spain). 24 - 29 September 1973.

5. "Crystalline phase transitions by heat treatment of zirconium dioxide xerogels"

75 ANNIVERSARY OF THE SPANISH ROYAL SOCIETY OF PHYSICS AND CHEMISTRY DE LA R.S.E.F.Q. Madrid (Spain). 2-7 October, 1978.

6. "Non-stoichiometry and order in perovskite oxides"

XVIII BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF PHYSICS AND CHEMISTRY. Burgos (Spain). 29 September - 3 October 1980.

7. "Synthesis of polycrystalline samples of SrTiO₃ with high surface"

VIII NATIONAL MEETING OF SPECTROSCOPY. Cordoba (Spain). 20-26 September, 1981.

8. "Paramagnetic oxygen radicals on SrTiO₃"

XIX BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF PHYSICS AND CHEMISTRY. Santander (Spain). September, 1982.

9. "Non-stoichiometry due to oxygen excess in the lanthanum calcium ferrite".

10. "Study by electron microscopy and electron diffraction of Ca_{2/3}La_{1/3}FeO_{8/3}"

XX BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY Castellón (Spain). September, 1984.

11. "Accommodation of anionic vacancies in the SrTi_{1-x}FeO_{3-y} system".

12. "Non-stoichiometry in the CaMn_{1-x}Fe_xO_{3-y} system".

13. "Synthesis of sodium and zinc ferrites with spinel structure"

SPANISH ROYAL SOCIETY OF CHEMISTRY. INORGANIC CHEMISTRY SPECIALIZED GROUP. SCIENTIFIC PLENARY MEETING. Baeza (Spain). September, 1985.

14. "Microdomains in the redox processes of the Ca and La ferrite".

XX BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. Sitges (Spain), September, 1985.

15. "Estudio de la estructura del Ca₂LaFe₃O₈ mediante microscopía electrónica de alta resolución." Study of the Ca₂LaFe₃O₈ structure by high resolution electron microscopy

16. "Síntesis y caracterización de partículas BaFe₁₂O₁₉ para memorias magnéticas de alta densidad." Synthesis and characterization of BaFe₁₂O₁₉ particles for high density magnetic memories

17. "Ordenamiento magnético de espinelas de sodio-zinc." Magnetic ordering of sodium-zinc spinels

II IBERIAN SYMPOSIUM OF CONDENSED MATTER PHYSICS. Seville (Spain), April, 1986.

18. "Mössbauer spectroscopy of CaFe_xMn_{1-x}O_{3-y} (0.2 ≤ x ≤ 0.4) perovskites with microdomain structure".

19. "Magnetic properties of uniaxial microdomain particles in BaFe_{12-2x}Co_xMn_xO₁₉"

IX LATIN AMERICAN CONGRESS OF CRYSTALLOGRAPHY. Barcelona (Spain), April, 1986.

20. "Study of A₃B₃O₈ perovskite related structures by Rietveld method".

COLLOQUE NATIONAL MATERIAUX II. Paris (France). 27-29 January, 1986.

21. "Elaboration et caracterisation de particules fines d'hexaferrites utilisables comme materiaux pour l'enregistrement magnetique."

XXI BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. Santiago de Compostela (Spain). September, 1986.

22. "Ca₄Fe₂Ti₂O₁₁ a new material of the A_nM_nO_{3n-1} serie"

23. "Multiplicity of microdomains in perovskite related solids".

24. "Ni and Mg ferrites obtained by ion exchange: cationic distribution and magnetic properties"

SFC. 86 SOCIETE FRANCAISE DE CHIMIE. Paris (France). 8-12 September, 1986.

25. "Elaboration et caracterisation de particules fines d'hexaferrites utilisables comme materiaux pour l'enregistrement magnetique."

GES-1. El Escorial (Spain). 13-15 October, 1987.

26. "Study of cationic ordering in the La_{1-x}CaxMn_{0.5}Co_{0.5}O_{3-y} system".

27. "Electron diffraction study of new phases in the LaNiO_{3-y} system".

28. "Study by electron microscopy and electron diffraction of the Ba_xLa_{1-x}FeO_{3-y} system".

29. "Non-stoichiometry in the BaFeO_{3-x} system".

30. "Lithium insertion in tungsten reduced oxides".

31. "Synthesis of superconductors by the liquid mix technique"
32. "Magnetic properties of high temperature superconductors"
33. "Microparticles for magnetic recording: synthesis and structural and magnetic characterization of hexagonal ferrites"

COLLOQUE ANNUEL DE LA SFME. Bordeaux (France), 20-22 May, 1987.

33. "Non-stoichiometry in perovskite related ferrites."

XXII BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY Murcia (Spain), September, 1988.

35. "Accommodation of non-stoichiometry in ABO_{3-y} (A = La, Ba; B = Fe, Ni) oxides
36. "Synthesis and characterization of high temperature superconductors"

23 BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY Salamanca (Spain), September, 1990.

37. "Caracterización microestructural de óxidos mixtos de composición $TRBa_2Fe_3O_{8+y}$." Microstructural Characterization of mixed oxides of composition $TRBa_2Fe_3O_{8+y}$
38. "Study of the $BaFe_{12-2x}Co_xTi_xO_{19}$ ($0 < x < 6$) system"
39. "Study of superconducting and non-superconducting phases with K_2NiF_4 type structures".

XVI MEETING OF THE SPANISH MICROSCOPY SOCIETY. Cádiz (Spain), 10-13 December, 1990.

40. "High resolution electron microscopy study of $Ba_2NdFe_3O_{8.4}$
41. "Structural determination of $BaFeO_{2.5}$ by HREM and CIP".

SMATS 91. Sitges (Spain), 6-8 November, 1991.

42. "Oxygen content and microstructure in $Bi_2Sr_2CaCu_2O_{8+\delta}$ "
43. "Crystal growth of superconductors and related mixed oxides"
44. "Structural intergrowths in the $YBa_2Cu_{3-x}Fe_xO_y$ system"
45. "Influence of the oxygen content in the microstructure of the $La_{2-x}Sr_xNiO_{4+\delta}$ system".
46. "Orden de las vacantes de oxígeno en el sistema $(La, Nd)_{2-x}Sr_xNiO_{4-\delta}$ ". Order of oxygen vacancies in the system $(La, Nd)_{2-x}Sr_xNiO_{4-\delta}$
47. " μ^+ SR study of superconductivity and magnetic order in $La_2NiO_{4+\delta}$ and superoxygenated $La_2MCu_2O_{6+\delta}$, M = Ca, Sr."
48. "Electron transport and structural effects in $La_{2-x}Sr_xNiO_{4+\delta}$ ".
49. "Thin films synthesis of magnesium oxide by the pyrosol process"
50. "Magnetic field sensor with superconducting core"
51. "Synthesis of $Pr_{2-x}Ce_xCuO_4$ monocrystals"
52. "Synthesis of n-type superconductors by the pyrosol method".
53. "Estabilización de la fase superconductora 2223". Stabilization of the 2223 superconducting phase
54. "Study of the Magnetic Properties of Nd_2NiO_4 ".

I MEETING OF THE SPANISH SOCIETY OF BIOMATERIALS, Poyo (Spain), 7-3 June, 1992.

55. "Structural study of phosphorus and calcium hydroxyapatite"

IV NATIONAL MEETING OF MATERIALS, Oviedo (Spain), 19-21 October, 1993.

56. "Synthesis of materials with small particle size by the pyrosol method".

SYMPOSIUM IN TRIBUTE TO PROFESSOR MANUEL CARDONA. Bellaterra (Spain), 26-27 May, 1994.

57. "Oxygen content and microstructure in high-temperature superconductors and related materials"

MECHANICAL PROPERTIES OF SOLID. Vitoria (Spain), July, 1994.

58. "Evaluation of the fracture toughness of sintered hydroxyapatite"

VIII CONGRESS OF SPANISH SURGICAL RESEARCH SOCIETY. Biomaterials Session. Madrid (Spain), 20-22 October, 1994.

59. "Preparation and study of the degradative behavior of biomaterials based on Alumina/PLLA/PMMA composites"
60. "New ways of synthesis of the $\alpha-Al_2O_3$ bioceramic"
61. "Ionomer cements: interactions between metal oxides and acrylic derivatives"
62. "Preparation and behavior in physiological medium of polyacrylic"composites" - TiO_2 "
63. "MgO-CaO- P_2O_5 - SiO_2 Bioglass: Microstructure, characterization and microanalysis".

SMATS 94. Sitges (Spain), 19-21 December, 1994.

64. "Synthesis of a superconducting phase by mechanochemical reaction in the Sr-Cu-O system".
65. "A study by HREM of the $Sr_{1-x}Ca_xCuO_2$ system".

66. "System $\text{Pr}_{2-x-y}\text{Ce}_x\text{Sr}_y\text{CuO}_{4.8}$: Influence of the content of Ce, Sr and O in their properties"
67. "Control of carbon impurities in the 2212 superconducting phase"
68. "Structural types and magnetic properties in $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_y$ "
69. "Synthesis of perovskite interlayers for the deposition of thick superconducting sheets".
70. "Ceramic-polymer precursors for YBCO superconducting fibers"
71. "Low critical fields of high-Tc superconductors determined using extended critical-state model".

XVII BIENNIAL MEETING OF THE SPANISH ELECTRON MICROSCOPY SOCIETY. Oviedo (Spain), 5-8 April, 1995.

72. "Morphological characterization of alumina synthesized by the pyrosol method".
73. "Microstructural study of the BaMnO_{3-y} ($0 \leq y \leq 0.25$) system"

XXXV ANNUAL CONGRESS OF CERAMIC AND GLASS. Seville (Spain), 17-20 May, 1995.

74. "Synthesis of calcium phosphates by controlled crystallization"
75. "Synthesis of ZrO_2 by pyrolysis of an aerosol"

SOL-GEL. I NATIONAL MEETING. Madrid (Spain), 23 February, 1996.

76. "Synthesis of single and mixed oxides from precursor solutions"

SPECIALTY MEETING ON PREPARATION AND CHARACTERIZATION OF OXIDE NANOPARTICLES AND NANOCATALYST. Seville (Spain), 29 February - 1 March, 1996.

75. "Synthesis of nanomaterials in powder form and/or thin sheet"

I NATIONAL CONGRESS OF BIOMATERIALS. Ávila (Spain), 24-26 June, 1996.

78. "Current problems and possible solutions of the bioceramics"
79. "Preparation of composite materials ceramic TiO_2 -polymer with potential biomedical applications".
80. "Synthesis and study of bioactive glasses and glass-ceramics in the $\text{CaO} \cdot \text{P}_2\text{O}_5 \cdot \text{SiO}_2$ system"
81. "Synthesis and characterization of calcium phosphates of biological interest"
82. "Application of composite materials ceramic TiO_2 -polymer for controlled release of fluorides"
83. "Synthesis and characterization of polyvinylpyrrolidone-tricalcium phosphate-methyl-ibuprofen polymethacrylate"
84. "Ceramic-drug interaction in β - $\text{Ca}_3(\text{PO}_4)_2$ /PMMA/PEMA/FOSFOSAL composites".
85. "Influence of components of composite systems in the release of ibuprofen"
86. "Controlled release of ibuprofen in composite system ceramic/polymer"
87. "Rietveld method application to the study of calcium phosphates of biological interest"

XVIII BIENNIAL MEETING OF THE SPANISH ELECTRON MICROSCOPY SOCIETY. Toledo (Spain), 15-18 April, 1997.

88. "Influence of the pressure in the $\text{Sr}_{0.5}\text{Ca}_{0.5}\text{CuO}_2$ microstructure"
89. "Cationic order in the $\text{Ln}_{1/3}\text{Sr}_{2/3}\text{FeO}_{3-z}$ system"
90. "In vitro" formation of apatite on a $\text{CaO-SiO}_2\text{-P}_2\text{O}_5$ hob.
91. "Microstructure of thin films of anatase".
92. "Influence of microorganisms in texture apatites"
93. "Zeolites electron crystallography"

II GENERAL CONGRESSO INVESCOT 99. Pamplona (Spain), 22-23 January, 1999.

94. "Influence of surface area, pore volume and chemical composition of sol-gel glasses on its in vitro bioactivity".
95. "Study of ibuprofen release from PMMA/PEMA/OHAp/IBU composite materials".
96. "Preparation of dalita: bone mineral component"
97. "Forming porous parts of hydroxyapatite"
98. "Bioactivity of sol-gel glasses: *In vitro* study"
99. "Cathodoluminescence study of crystalline phases present in the layer joining the bioactive glasses with living tissues"

XIX BIENNIAL MEETING OF THE SPANISH ELECTRON MICROSCOPY SOCIETY. Murcia (Spain), 28-30 April, 1999.

100. "Monitoring the formation of an apatite layer on the surface of bioactive glass"
101. "Order-disorder transitions in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ "

XL NATIONAL CONGRESS OF THE SPANISH SOCIETY OF CERAMIC AND GLASS. Onda (Spain), 8-11 November, 2000.

102. "Study and application of new ceramic glazes with photoluminescent properties applicable to ceramic tiles industry"

III GENERAL CONGRESS INVESCOT 2001. Murcia (Spain), 26-27 January, 2001.

103. "Estudio experimental en conejos". Treatment of bone defects by a new bioactive glass. Experimental study in rabbits".
104. "Pharmacokinetics of a vector for antibiotic biodegradable release of 58S bioglass obtained by sol-gel process. Study "in vivo".

38 NATIONAL CONGRESS OF THE SPANISH SOCIETY OF ORTHOPEDIC SURGERY AND TRAUMA. SECOT'01- Bilbao (Spain), 10-13 October, 2001.

105. "Bone defect repair with bioactive glasses. Experimental study in rabbits"

24 SYMPOSIUM OF BIOMECHANICS AND BIOMATERIAL IBERIAN SOCIETY. Barcelona (Spain), 30 November - 1 December, 2001.

106. "New treatment for the synthesis on HA layers on Ti cp bioactive"
107. "Design of a biodegradable system for an antibiotic release. *In vivo* pharmaceutical study"

ANALES ORL IBER.-AMER. XXVIII (5), 513-522. 1 October, 2001.

108. "Atrophy of the tympanic membrane in contact with hydroxyapatite prosthesis: a pathophysiological approach"

VII NATIONAL CONGRESS OF MATERIALS. Madrid (Spain), 16-18 October, 2002.

109. "Magnetic and electrical phase diagram of the $\text{La}_{1-x}\text{Ca}_x\text{MnO}_y$ system: a new dimension".
110. "Synthesis by sol-gel route of SrAl_2O_4 : Eu^{2+} , R^{3+} ($\text{R}=\text{Dy}, \text{Nd}$) pigment with luminescent properties".

SPANISH JOURNAL OF SURGERY OSTEOARTICULAR. Vol 37-nº 211 July-September, 2002.

111. "Experimental study in rabbits of a new bioactive glass in the reconstruction of bone defects".

XXIX BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. 7-11 JULIO 2003.

112. "Design of mesoporous materials ordered for controlled drug release"
113. "Organic-inorganic hybrids for bone implants"
114. "Hole attractor model: origin of phase segregation in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ system".
115. "Calcium phosphate coatings on metal substrates"
116. "Evolution of the surface of a sol-gel glass versus immersion time in a simulated body fluid"
117. "Bioglasses reactivity in solutions containing albumin"
118. "Bioactivity in biphasic mixtures glass-hydroxyapatite $\text{SiO}_2\text{-CaO-P}_2\text{O}_5$ "
119. "Biocements of Calcium Sulfate/Hydroxyapatite".
120. "Structural defects in superconducting films"
121. "MCM-41 Functionalised: its influence on the release rate of ibuprofen"
122. "Influence of MCM-41 pore size on the controlled release of ibuprofen"
123. "Synthesis of tricalcium β -phosphate in either powder or sheet form by the liquid mix technique"

XXI BIENNIAL MEETING OF THE SPANISH ELECTRON MICROSCOPY SOCIETY. 28 September-1 October 2003.

124. "Vitreous coatings $\text{SiO}_2\text{-CaO}$ on $\text{Ti}_6\text{Al}_4\text{V}$ "
125. "MCM-41 microstructural study doped with phosphorus"

CONFERENCES ON APPLIED SCIENCE TO CERAMICS INDUSTRY. Castellón (Spain). 4-6 July, 2005.

126. "Bioceramics"

XXII BIENNIAL MEETING OF THE SPANISH ELECTRON MICROSCOPY SOCIETY. Granada (Spain). 28 June-1 July, 2005.

127. "Electron microscopy of mesoporous materials for tissue regeneration"
128. "Synthesis and characterization of SiO_2 nanospheres"
129. "Microstructure of organic-inorganic bioactive hybrid"
130. "New method for determining cell-substrate interactions"

XXX BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY. Lugo (Spain), 19-23 September, 2005.

131. "Bioactive glasses and hybrids: a study by high resolution electron microscopy"

XLV SECV CONGRESS. Seville (Spain), 2-5 November, 2005.

132. "IR and Raman spectroscopy study of bioactive glass produced by so-gel"

XLVI SECV CONGRESS. Castellón (Spain), 25-27 October, 2006.

133. "Ceramic and health". Plenary lecture.

- XXXI BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY.** Toledo (Spain), 9-14 September, 2007.
134. "Drug delivery in MCM-41: Influence of its morphology functionalization"
 135. "Structural study of SBA-15 with phosphorus"
 136. "How to increase the specific surface of mesoporous silica materials SBA-15 type".
 137. "Microporous magnetic microspheres as drug carriers"
 138. "Porous metal-organic structures as new drug delivery systems"
 139. "Ha/B-TCP/Agarosa three-dimensional scaffolds for tissue engineering"
 140. "*In vitro* biocompatibility of glass-ceramic magnetic thermoseeds for the treatment of bone tumors by hyperthermia".
- SIBB BioBCN 2008. INSTITUTE OF BIOENGINEERING OF CATALUNYA.** Barcelona (Spain), 17-19 September, 2008.
141. "SBA-15 Functionalized with PTHrP and C8. An active biomaterial in bone repair"
- XXXII BIENNIAL MEETING OF THE SPANISH ROYAL SOCIETY OF CHEMISTRY.** Oviedo (Spain), 13-18 September, 2009
142. "Biomedical applications of silica ordered mesoporous matrices"
- XIV SCIENTIFIC PLENARY MEETING OF CHEMISTRY.** Cartagena (Spain), 12-15 September, 2010
143. "Biomaterials and Biomedicine: A reality that exceeds fiction"
- NANOMED CONFERENCE.** Madrid (Spain), 1 February, 2011.
144. "Nanomedicine in Spain: present and future"
- XXVI NATIONAL CONGRESS AND XIX INTERNATIONAL CONGRESS OF THE SPANISH SOCIETY OF IMPLANTS.** Congress Palace of Valencia (Spain), 24-26 May, 2012.
145. "Examination of different materials in a nanostructural level"
- VI CIBER-BBN ANNUAL MEETING.** Institute of Health Carlos III de Madrid (Spain), 19-20 November, 2012.
146. "Multifunctional Nanodevices for drug delivery, gene transfection and hyperthermia".
 147. "Advanced bioceramics for bone tissue regeneration and antimicrobial purposes".
- VIII SCIENTIFIC MEETING OF BIOINORGANIC.** University of Burgos. Burgos (Spain), 7-10 July, 2013.
148. "Biomaterials for medical applications: from the implantology to the nanomedicine"
- 7TH CIBER-BBN ANNUAL CONFERENCE.** Torremolinos (Spain), 21-22 November, 2013.
149. "3D scaffolds and implants functionalized and reinforced with recombinant protein polymers for regenerative medicine".
 150. "Redox responsive cisplatin delivery from mesoporous silica nanoparticles".
 151. "Research group in smart biomaterials: from macro to nano".
 152. "Bone regeneration response in rat's jaws after the implantation of PTHrP and a different-ways treated mesoporous bioactive glass".
 153. "Gated silica mesoporous nanoparticles for the development of enzyme-triggered delivery systems".
 154. "A nanocrystalline silicon substituted hydroxyapatite functionalized with mesenchymal stem cells and osteoinductive growth factors for bone formation".
- 8TH CIBER-BBN ANNUAL CONFERENCE.** Girona (Spain), 10-11 November, 2014.
155. "Effects of Hydroxyapatite coatings on Ti6Al4V scaffolds in MSC cells: Fabrication and Preliminary in vitro assays".
 156. "Decidua-derived Mesenchymal Stem Cells as carriers of Mesoporous Silica Nanoparticles to mammary tumours".
 157. "Dendron decorated mesoporous silica nanoparticles: new drug/siRNA nanocarrier against HIV-1 latency".
 158. "Smart nanoparticles for advanced therapy in pediatric neuroblastoma".
- LIV ANNUAL CONGRESS OF THE SPANISH SOCIETY OF CERAMIC AND GLASS.** University of Extremadura. Badajoz (Spain). 19-22 November, 2014.
159. "Mechanical behavior of hydroxyapatite scaffold doped with silicon-jelly produced at room temperature for bone regeneration applications".
- VII WORKSHOP ON NANOSCIENCE AND ANALYTICAL NANOTECHNOLOGIES, VII N_yNA 2015.** Salamanca (Spain), 6-8 July, 2015
160. "Silver Nanoparticles Supported on Transferrin Decorated Mesoporous Silica Nanoparticles: Hybrid Nanosystems for Cancer Cell Targeting".

IX CIBER-BBN ANNUAL MEETING. Polytechnic University of Valencia (Spain), 30 November-1 December, 2015.

161. "Smart4NB: Smart nanoparticles for advanced therapy in pediatric neuroblastoma".

162. "3D Custom-made porous titanium endoimplants combined with tissue engineering elements for mandible reconstructive surgery (·D-TImpTE project)".

163. "Bone regeneration of mini-pig jaw critical defects by implanting agarose/nanocarbonate hydroxyapatite osteogenic composite constructs".

164. "SPRING: Gated scaffolds for the prevention of implant infection".

165. "Mesoporous silic nanoparticles for smart drug and gene delivery".

166. "Advanced biomaterials for the treatment of bone implant infections: three different strategies".

DOCTORAL THESIS SUPERVISED

1. TITLE: Stoichiometry modification in the $Ba_xLa_{1-x}FeO_{3-y}$ system.

NAME OF THE STUDENT: Marina Parras Vázquez

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Chemistry

YEAR: 1988 GRADE: Apto "cum laude"

2. TITLE: Order-disorder in the TR-Ba-Cu-Fe-O (TR = Y, Ln) system.

NAME OF THE STUDENT: Ester García González

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Chemistry

YEAR: 1992 GRADE: Apto "cum laude"

3. TITLE: Barium hexaferrite: from the permanent magnet to the magnetic recording.

NAME OF THE STUDENT: María Victoria Cabañas Criado

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Chemistry

YEAR: 1992 GRADE: Apto "cum laude"

4. TITLE: Structural variations and crystal growth in K_2NiF_4 related materials.

NAME OF THE STUDENT: José María Alonso Rodríguez

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Chemistry

YEAR: 1993 GRADE: Apto "cum laude"

5. TITLE: n type superconductors: Stability and microstructure of the U, T' and T* phases in the $Pr_{2-x}A_xCuO_{4-\delta}$ (A = Ce y/o Sr) system.

DOCTORANDO: María Aurea Varela Losada

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Chemistry

YEAR: 1994 GRADE: Apto "cum laude". Outstanding Doctorate Award.

6. TITLE: Bi-Sr-Ca-Cu-O system: Reactivity, stability and reproducibility of superconducting phases.

NAME OF THE STUDENT: Julio Ramírez Castellanos

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Chemistry

YEAR: 1994 GRADE: Apto "cum laude"

7. TITLE: Synthesis of materials with potential technological applications.

NAME OF THE STUDENT: Juan Peña López

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Pharmacy

YEAR: 1998 GRADE: Apto "cum laude"

8. TITLE: Synthesis, processing and properties of calcium phosphate ceramics with clinical interest.

NAME OF THE STUDENT: Luis María Rodríguez Lorenzo

UNIVERSITY: Complutense of Madrid

FACULTY/SCHOOL: Chemistry

YEAR: 1999 GRADE: Apto "cum laude"

9. TITLE: Study of Biocompatibility Polyethylene, MA956 alloy and alumina. Osteoblasts and Macrophage response against the particles.

NAME OF THE STUDENT: Ana María Rodrigo Sánchez

UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Chemistry
YEAR: 2001 GRADE: Apto "cum laude"

10. TITLE: Optimization of properties of magnetic materials through control of composition and microstructure.
NAME OF THE STUDENT: Daniel Arcos Navarrete
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2002 GRADE: Apto "cum laude"

11. TITLE: Bioactive materials in the CaO·P₂O₅·SiO₂ system.
NAME OF THE STUDENT: Francisco Balas Nieto
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Chemistry
YEAR: 2002 GRADE: Apto "cum laude"

12. TITLE: Bioactive glasses in the SiO₂-CaO binary system.
NAME OF THE STUDENT: María Isabel Izquierdo Barba
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2002 GRADE: Apto "cum laude". Outstanding Doctorate Award.

13. TITLE: Bioactivity and biocompatibility sol-gel materials with CaO constant content.
NAME OF THE STUDENT: Ana Isabel Martín Barral
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2005 GRADE: Apto "cum laude".

14. TITLE: Bioactivity improvement and optimization of forming methods on bioceramics.
NAME OF THE STUDENT: Susette Padilla Mondejar
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2005 GRADE: Apto "cum laude".

15. TITLE: Drug delivery confined in porous matrices.
NAME OF THE STUDENT: Patricia Horcajada Cortes
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2005 GRADE: Apto "cum laude".

16. TITLE: Bioceramics parts of calcium phosphates for applications in tissue regeneration
NAME OF THE STUDENT: Sandra Sánchez Salcedo
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2008 GRADE: Apto "cum laude".

17. TITLE: Polymérisation radicalaire contrôlée par le nitroxyde SG1 à la surface de particules de silice mésoporeuse.
NAME OF THE STUDENT: Hélène Blas
UNIVERSITY: Université Pierre et Marie Curie and Complutense of Madrid
FACULTY/SCHOOL: Laboratoire de Chimie des Polymères
YEAR: 2009 GRADE: "Très honorable avec félicitations du jury"

18. TITLE: Biomedical applications of mesoporous materials of silica and carbon.
NAME OF THE STUDENT: Alejandra Nieto Peña
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2010 GRADE: With highest honor.

19. TITLE: Magnetic Bioceramics for medical applications.
NAME OF THE STUDENT: Eduardo Ruiz Hernández
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2010 GRADE: With highest honor.

20. TITLE: Bioactive mesoporous glasses as third generation biomaterials.
NAME OF THE STUDENT: Adolfo López Noriega
UNIVERSITY: Complutense of Madrid FACULTY/SCHOOL: Pharmacy
YEAR: 2010 GRADE: With highest honor.

OTHER MERITS

Books and Monographs

Title: Solid State Science.
Authors: M.A. Alario, B.G. Hyde, S.C. Parker, M. Marezio, H.J. Matzke, Le Roy Eyring, **M. Vallet-Regí**, E. Calleja, J.M. Martín Pereda y F. López Martínez.
Publishers: M.A. Alario Franco y **M. Vallet-Regí**.
Editorial: Real Academia de Ciencias Exactas, Físicas y Naturales. (1987).

Title: Biomaterials. Supplement 1 to Volume 93 number 1 (1997).
Journal: Anales de Química. International Edition. Journal of the Spanish Royal Society of Chemistry.
Publishers: J. Casabó y **M. Vallet-Regí**.
Editorial: Springer-Verlag Ibérica

Title: Biomaterials: Here and now.
Publisher: **M. Vallet-Regí** y L. Munuera
Editorial: Dykinson, Madrid. (2000). ISBN.: 84-8155-675-0

Title: Introduction to bioinorganic chemistry.
Authors: **M. Vallet-Regí (coord.)**, J. Faus, E. García-España, J. Moratal.
Editorial: Síntesis, Madrid. (2003). ISBN.: 84-9756-073-6

Title: Suture materials in surgery.
Director: J.A: Rodríguez Montes
Chapter: Biological biomaterials.
Author: **M. Vallet-Regí**.
Editorial: Scientific Communication Management, S.L. 2004. B.Braun. Depósito legal: B-34.199-2004.

Title: Book of facial aesthetics and self-esteem.
Director: M. Lucas
Chapter: Biomaterials in the facial repair.
Author: **M. Vallet-Regí**.
Editorial: Instituto de España (2004). ISBN.:84-85559-80-0

Title: New opportunities and technologies in drug discovery.
Chapter: Imitating nature: nano apatites.
Authors: **M. Vallet-Regí**.
Editorial: Fundación José Casares Gil, de Amigos de la Real Academia Nacional de Farmacia (2004). Depósito Legal: M-27691-2004

Title: Drug delivery matrices in bioceramics: progress and prospects.
Publishers: **M. Vallet-Regí**, A.L. Doadrio Villarejo
Editorial: Real Academia Nacional de Farmacia. (2006) ISBN.:84-934430-1-8.

Title: Trends in Biomaterials Research
Publisher: Patrick J. Pannone
Chapter: Mesoporous materials for biomedical applications.
Author: **M. Vallet-Regí**, D. Arcos
Editorial: Nova Science Publishers. (2007) ISBN1-1-60021-361-8

Title: Biomaterials for bone regenerative medicine
Publisher: N. Sooraj Hussain and J.D. Santos
Chapter: Silica-based materials as precursors of nanoapatites.
Author: **M. Vallet-Regí**
Editorial: Trans. Tech.. Publishers (tp) (2007)

Title: Turning Points in Solid-State, Materials and Surface Chemistry
Publisher: Kenneth D.M. Harris
Chapter: Nano and Mesoporous Materials: A Study by HREM.
Authors: José M. González-Calbet1, M. Luisa Ruiz-González1, M. Vallet-Regí
Editorial: Royal Society of Chemistry (2007) ISBN 978-0-85404-114-5

- Title: Progress in Bioceramics
Publisher: María Vallet Regí
Editorial: Trans Tech Publications, Switzerland (2008) ISSN 1013-9826
- Title: Progress in Bioceramics
Publisher: María Vallet Regí
Chapter: Bioceramics: where do we come from and which are the future expectations. Vol. 377 (2008) pp 1-18
Author: María Vallet Regí
Editorial: Trans Tech Publication, Switzerland (2008) ISSN 1013-9826
- Title: Progress in Bioceramics
Publisher: María Vallet Regí
Chapter: Upgrading calcium phosphate scaffolds for tissue engineering applications. Vol. 377 (2008) pp 19-42
Authors: Sandra Sánchez-Salcedo, Daniel Arcos and María Vallet-Regí
Editorial: Trans Tech Publication, Switzerland (2008) ISSN 1013-9826
- Title: Progress in Bioceramics
Publisher: María Vallet Regí
Chapter: Synthesis of mesoporous microparticles for biomedical applications. Vol. 377 (2008) pp 181-194
Authors: Daniel Arcos, Adolfo López-Noriega, Eduardo Ruiz-Hernández, Luisa Ruiz, José María González-Calbet and María Vallet-Regí
Editorial: Trans Tech Publication, Switzerland (2008) ISSN 1013-9826
- Title: Progress in Bioceramics
Publisher: María Vallet Regí
Chapter: Silica-Based ordered mesoporous materials for biomedical applications. Vol. 377 (2008) pp 133-150
Authors: Isabel Izquierdo-Barba, Miguel Manzano, Montserrat Colilla and María Vallet-Regí
Editorial: Trans Tech Publication, Switzerland (2008) ISSN 1013-9826
- Title: Progress in Sol-Gel Production
Publisher: Luis Esquivias
Chapter: The Sol-Gel Production of Bioceramics. Vol. 391 (2009) pp 141-158
Authors: Antonio J. Salinas y Maria Vallet-Regí
Editorial: Trans Tech Publication, Switzerland (2008) ISBN 978-0-87849-365-4
- Title: Biomimetic nanoceramics in Clinical Use
Publishers: Harry Kroto, Paul O'Brien and Harold Craighead
Author: M. Vallet-Regí, D. Arcos
Editorial: RSC Nanoscience & Nanotechnology. Cambridge. U.K. (2008) ISBN 978-85404-142-8
- Title: Bio-inorganic hybrid nanomaterials
Publishers: E. Ruiz-Hitzky, K. Ariga, Y. M. Lvov
Chapter: Nanostructured hybrid materials for bone implants fabrication. pp 367-399
Authors: M. Vallet-Regí and D. Arcos
Editorial: Wiley-VCH. Weinheim (2008) ISBN: 978-3-527-31718-9.
- Title: Zeolite and related materials-trends, targets and challenges
Publishers: A. Gedeon, P. Massiani, F. Babonneau
Authors: M. Vallet-Regí, M. Manzano, M. Colilla
Editorial: Elsevier. (2008) ISBN 978-0-444-53297-8
- Title: Bioceramics: Properties, Preparation and Applications
Publishers: Wolffe Kossler and Jacob Fuchs
Chapter: Novel Insights Into Ordered Mesoporous Materials For Biomedical Applications
Authors: Montserrat Colilla and María Vallet-Regí
Editorial: Nova Science. New York (2009) ISBN 978-1-60741-056-0.
- Title: Bone Repair Biomaterials
Publisher: J. Planell
Chapter: Ceramics.
Authors: María Vallet-Regí y Antonio J. Salinas
Editorial: Woodhead Publishing Limited. U.K. (2009) ISBN 978 1 84569 385 5
- Title: Annual Reviews of Nano Research
Publishers: G. Cao, C. J. Brinker

Chapter: Nanostructured mesoporous materials as drug delivery systems
Authors: I. Izquierdo-Barba, D. Arcos, M. Vallet-Regí
Editorial: World Scientific Publishing Co. (2010) ISBN 978-981-4280-51-8

Title: Advanced Bioceramics in Nanomedicine and Tissue Engineering
Publishers: María Vallet-Regí and Mercedes Vila
Editorial: Trans Tech Publication, Switzerland (2010) ISBN 978-0-87849-270-1

Title: Advanced Bioceramics in Nanomedicine and Tissue Engineering
Publishers: María Vallet-Regí and Mercedes Vila
Chapter: Dendritic Macromolecules: New Possibilities for Advanced Bioceramics.
Authors: Blanca González, Carlos López de Laorden, Montserrat Colilla and María Vallet-Regí
Editorial: Trans Tech Publication, Switzerland (2010) ISBN 978-0-87849-270-1

Title: Advanced Bioceramics in Nanomedicine and Tissue Engineering
Publishers: María Vallet-Regí and Mercedes Vila
Chapter: Multifunctional nano and microparticles for drug delivery systems.
Authors: Eduardo Ruiz, Adolfo López, Daniel Arcos and María Vallet-Regí
Editorial: Trans Tech Publication, Switzerland (2010) ISBN 978-0-87849-270-1

Title: Advanced Bioceramics in Nanomedicine and Tissue Engineering
Publishers: María Vallet-Regí and Mercedes Vila
Chapter: Carbon nanotubes as a solution for processing smart materials
Authors: Mercedes Vila, Miguel Manzano and María Vallet-Regí
Editorial: Trans Tech Publication, Switzerland (2010) ISBN 978-0-87849-270-1

Title: Comprehensive Biomaterials
Publisher: Paul Ducheyne
Chapter: Mesoporous Silica Materials.
Authors: Montserrat Colilla and María Vallet-Regí
Editorial: Elsevier (2011) ISBN- 978-0-08-055302

Book: XI Congreso Nacional de Reales Academias de Medicina de España
Publishers: Real Academia de Medicina y Cirugía de Murcia
Chapter: Ceramic matrices for Tissue Engineering
Authors: María Vallet-Regí
Editorial: Real Academia de Medicina y Cirugía de Murcia (2011).
Legal Deposit: MU-460-2011

Book: Hierarchically Structured Porous Materials
Publishers: Su, Bao-Lian / Sanchez, Clément / Yang, Xiao-Yu
Chapter: Hierarchically structured porous materials: applications in Biochemistry: Bioceramics, Life science and drug delivery
Authors: María Vallet-Regí and M. Manzano
Editorial: Wiley-VCH, Weinheim (2011). ISBN-13: 978-3-527-32788-1

Book: Surface Tailoring of Inorganic Materials for Biomedical Applications
Publishers: L. Raimondi, C. Bianchi and E. Verné
Chapter: Methods to study the mechanism of bioactivity. Chapter 14, pp. 359-375
Authors: Antonio J. Salinas y María Vallet-Regí
Editorial: Bentham Science Publishers (2012) eISBN: 978-1-60805-462-6, ISBN :978-1-60805-556-2

Title: Smart Materials for Drug Delivery (Volume 2)
Publishers: Carmen Alvarez-Lorenzo and Angel Concheiro
Chapter: Smart Drug Delivery from Silica Nanoparticles.
Authors: Montserrat Colilla and María Vallet-Regí
Editorial: Royal Society of Chemistry UK (2013). ISBN 9781849735520

Title: Biomedical Applications of Mesoporous Ceramics: Drug Delivery, Smart Materials and Bone Tissue Engineering
Publishers: Taylor & Francis
Authors: María Vallet-Regí; Miguel Manzano García; Montserrat Colilla
Editorial: CRC Press, 2013. ISBN 9781439883075

Title: Encyclopedia of Biomedical Polymers and Polymeric Biomaterials

- Chapter: Foams, Hydroxyapatite-Biopolymer.
Authors: Sandra Sánchez, Mercedes Vila, María Vallet-Regí, J. Gil-Albarova, J. Badiola-Vargas, A. Herrera
Publisher: Munmaya Mishra
Editorial: Taylor & Francis Group, 2014. ISBN 1439898790, 9781439898796
- Title: Biomateriales
Author: María Vallet-Regí
Publisher: CSIC
Editorial: Catarata, 2013. ISBN 978-84-00-09756-1, 978-84-8319-864-3
- Title: Bioceramics with Clinical Applications
Publisher: Maria Vallet-Regí
Editorial: John Wiley & Sons Limited . United Kingdom. ISBN: 978-1-118-40675-5. 2014.
- Title: The Sol-Gel Handbook Synthesis, Characterization, and Applications. (3 Vol. Handbook). Vol. 3 Applications.
Chapter: Mesoporous silica nanoparticles for drug delivery and controlled release applications.
Authors: Montserrat Colilla, Alejandro Baeza, María Vallet-Regí
Publisher: David Levy and Marcos Zayat
Editorial: Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany. 2015. ISBN 978-3-527-33486-5.
- Title: A century of chemistry studies in Granada (1913-2013).
Chapter: Inorganic nanoparticles intended for medical applications.
Authors: María Vallet-Regí
Publisher: Luís Fermín Capitán Vallvey
Editorial: Editorial Universidad de Granada. 2014. ISBN: 978-84-338-5651-7.
- Title: Bone & Joint Journal Orthopaedic Proceedings Supplement
Chapter: Parathyroid hormone-related protein (107-111) improves the bone regeneration potential of gelatin-glutaraldehyde biopolymer-coated hydroxyapatite.
Authors: D. Lozano, S. Sánchez, S. Portal, M. Vila, A. López, J.A. Ardura, F. Mulero, E. Gómez, M. Vallet-Regí, P. Esbrit.
Publisher: British Editorial Society of Bone and Joint Surge. 2014
- Title: Bio- and Bioinspired Nanomaterials
Chapter: Ceramic Smart Drug Delivery Nanomaterials.
Authors: Alejandro Baeza and María Vallet-Regí
Publishers: Daniel Ruiz-Molina, Fernando Novio, and Claudio Roscini.
Editorial: Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany. 2015. ISBN: 978-3-527-33581-7.
- Title: Chemoresponsive Materials: Stimulation by Chemical and Biological Signals, Chapter 6.
Chapter: Responsive Mesoporous Silica Nanoparticles for Targeted Drug Delivery.
Authors: Montserrat Colilla, María Vallet-Regí.
Publisher: Hans-Jörg Schneider.
Editorial: Royal Society of Chemistry, Cambridge, UK.. (2015) ISBN: 978-1-78262-062-4
- Title: Nanoceramics in Clinical Use: From Materials to Applications (2nd Edition)
Authors: M. Vallet-Regí, D. Arcos
Publishers: Harry Kroto, Paul O'Brien, Xiaogang Liu, Ralph Nuzzo and Joao Rocha
Editorial: RSC Nanoscience & Nanotechnology. Cambridge. U.K. (2015) ISBN: 978-1-78262-104-1
- Title: Recent advances within the field of materials science in Spain
Chapter: Third-generation bioceramics
Author: M. Vallet-Regí
Publishers: Berenguer Murcia, A., Caturla Terol, M. J., Molina Jorda, J. M., Morallon Nuñez, E., Quijada Tomás, C., Román Martínez, M. C., Sancho Garcia, J. C., Vidal Martínez, L.
Editorial: Publicacions Universitat d'Alacant. Alacant. (2015). ISBN: 978-84-9717-346-9.
- Title: Successful Women Ceramic and Glass Scientists and Engineers. 100 Inspirational Profiles.
Chapter: Profile 92: María Vallet-Regí
Author: M. Vallet-Regí
Publisher: Madsen, Lynnette (ed.).
Editorial: Wiley. (2015). ISBN 978-1-118-73360-8.

AWARDS AND OTHER MERITS NOT LISTED ABOVE

- Academic Member of the Royal Academy of Engineering. Medal number LII.
- Academic Member of the Royal Academy of Pharmacy. Medal Number XLII.
- Doctorate Honoris Causa by País Vasco University.
- Doctorate Honoris Causa by Universitat Jaume I.
- Fellow of Biomaterials Science and Engineering del International College of Fellows of Biomaterials Science and Engineering (ICF-BSE)
- 'Prix Franco-Espagnol 2000', Societé Française de Chimie
- RSEQ 2008 Award in Inorganic Chemistry
- National Research Award "Leonardo Torres Quevedo" for Engineering area, 2008.
- Research Award Miguel Catalán 2013 in recognition of her professional career in scientific research
- IDEA2 2014 Award. Autonomous Community of Madrid and Massachusetts Institute of Technology Consortium. 2014.
- IDEA2 2015 Award finalist . Autonomous Community of Madrid and Massachusetts Institute of Technology Consortium. 2014.
- FEIQUE Research Prize 2011
- Research Prize of the RSEQ 2011
- Gold medal of the RSEQ 2011.
- Research Prize of the RSEQ 2011.
- Research Prize of the GACETA DENTAL 2014.
- Diploma for the best scientific communication presented at the X Jornadas Complutenses, IX Congreso Nacional de Investigación para Alumnos Pregraduados en CC.de la Salud. Faculty of Optic. 25 April 2015.
- Journal QUO: Considered one of the best contemporary Spanish scientists. 3 July 2015.
- IUPAC 2013 Distinguished Women in Chemistry/Chemical Engineering. 2013.
- First Prize in the V Contest of Scientific Difussion of the University Complutense 2014. Julio 2014.
- Best scientific work presented at the Internacional Congress "Fifth International Conference on Ferrites". Bombay (India), enero 1989.
- Award for best poster at the 8th European Conference On Solid State Chemistry. Oslo (Norway), 4-7 July 2001.
- Photography Award at the XXXV Ceramic and Glass Annual Congress. Seville (Spain), 17-20 May 1995. "
- Photography Award at the XL National Congress of the Spanish Society of Ceramic and Glass. Onda (Spain), 8-11 November, 2000.
- Best poster in materials Award at the XXI Biennial Meeting of the Spanish Microscopy Society. Cádiz (Spain). 28 September-1 October 2003.
- Award for best poster at the X European Conference on Solid State Chemistry. Sheffield (United Kingdom). 29 August-1 September 2005.
- International Advisory Editorial Board Member of the Journal J. Mater. Chem., de la Royal Society of Chemistry 1995-2000.

- International Advisory Editorial Board Member of the Journal Bulletin of Materials Science since 2005-.
- Editorial Board Member of the Journal The Open Inorganic Chemistry Journal (Bentham Science Publishers LTD.) since 2007-.
- Editorial Board Member of the Journal The Open Biomedical Entineering Journal (Bentham Science Publishers LTD.) since 2007-.
- Editorial Board Member of Journal of Biomaterials and Nanobiotechnology since 2010.
- Editorial Board of Bioceramics Development and Applications since 2010.
- Editorial Board Member of Acta Biomaterialia since 2011.
- Editorial Board Member of Journal of Ceramics since 2012.
- Editorial Board Member of Academic and Scientific Publishing since 2013.
- Honorary Advisors of Journal of Biomaterials and Tissue Engineering since 2011.
- Responsible for the Research Support Center of X-Ray Diffraction at Complutense University of Madrid at the headquarters of Pharmacye (since its inception in 1993).
- Vice President of the Spanish Royal Society of Chemistry (R.S.E.Q.) since July 1999 - April 2007.
- Elected Honorary Member of the Materials Research Society of India, since February 1997.
- Member of the Scientific Committee of the Journal “Biomaterials” published by Ediciones Especializadas Europeas, since June 2001.
- International Scientific Committee of the Journal “Maestría en Odontología” published by the National University of Colombia (Bogotá), Odontology Faculty, since February 2014.
- Referee of the following International Scientific Journals:
 - Acta Biomaterialia.
 - Advanced Materials.
 - Angewandte Chemie International Edition.
 - Biomaterials.
 - Chemistry of Materials.
 - Chemistry - A European Journal.
 - European Journal of Inorganic Chemistry.
 - Journal of the American Ceramic Society.
 - Journal of Biomedical Materials Research.
 - Journal of Controlled Release.
 - Journal of the European Ceramic Society.
 - Journal of Materials Science: Materials in Medicine.
 - Journal of Materials Chemistry.
 - Journal of Non-Crystalline Solids.
 - Journal of Physical Chemistry B.
 - Journal of Sol-Gel Science and Technology.
 - Journal of Solid State Chemistry.
 - Journal European Ceramics Society.
 - Journal of American Ceramic Society.
 - Journal of American Chemical Society.
 - Journal of Materials Research.
 - Langmuir.
 - Macromolecular Bioscience.
 - Materials Science and Engineering: B
 - Solid State Ionics.
 - Surface and Interface Analysis.
 - Tissue Engineering.
- Vocal of the Spanish Royal Society of Chemistry (R.S.E.Q.) 1991-1995.

- Member of the Applied Magnetism Institute “Salvador Velayos”. U.C.M.-RENFE since its inception in 1988.
- Director of the Department of Inorganic and Bioinorganic Chemistry in the Pharmacy Faculty at the Complutense University of Madrid 1990-2011.
- Collaboration in the translation of the English work "THE NUFFIELD FOUNDATION", published by Reverte, S.A.
- Selection Committee Member of the Journal "Ceramic Information", published by Faenza Editrice Ibérica, S.A. since 1996.
- Technical reviewer in the translation of the English work "SOLID STATE CHEMISTRY, AN INTRODUCTION", of L. Smart y E. Moore, published by Addison-Wesley Iberoamericana, S.A. (1995).
- Technical reviewer in the translation of the American work, "INTRODUCTION TO COORDINATION, SOLID STATE, AND DESCRIPTIVE INORGANIC CHEMISTRY", of Glen E. Rodgers, published by McGraw-Hill. Inc. (1995).
- Co-editor of special issue "Biomaterials", published in Anales de Química, International Edition, Journal of the Spanish Royal Society of Chemistry, Supplement 1 to volume 93, number 1.
- Participant at the I Spanish-French Meeting of Inorganic Materials . Faculty of Chemistry. University Complutense. Madrid (Spain), 4-5 July 1986.
- Participant for the University Complutense in the Aerospace Project "Preliminary study of a crystallization laboratory for space station (COLUMBUS)", proposed by Agencia "AEROESPATIALE", (1986).
- Coordinator of the teachings of General Chemistry for the 1st course of the degree in Chemistry at Complutense University, 1986-1990.
- Invited for the Round Table about Magnetic Materials at the II National Meeting of Materials, Zaragoza (Spain) 20-21 November 1987.
- Thesis Committeed Member in France, Portugal, Italy and Finland.
- Participant in the First Conference on Polymeric Biomaterials. San Sebastián (Spain), 21-22 November, 1991.
- Participant of the course on “Polymeric Biomaterials in Modern Opthalmology. Challengers and Perspectives.” Madrid (Spain), 20 February 1993. Organized by el Institute of Advanced Social Studies C.S.I.C. in collaboration with the National R & D Plan– C.I.C.Y.T., Carlos III Health Institute and Kabi Pharmacy.
- Member of the Advisory Council for Research and Development of the General Foundation of UCM since November 1997.
- Invited Participant for the Round Table “Meeting with the National Research Awards 2008”, Madrid (Spain), 1 June, 2009).
- Adviser of the cluster “Materials for the Future”. Project “La Ciudad Universitaria de la Moncloa: un Campus de Excelencia Internacional en la Ciudad de Madrid”. UCM.
- Organizer of the invited lectures: “Novel Attachment Methods – Lessons Learned – the Bioglass Story” del Dr. David C. Greenspan, “An Overview of Sol-Gel Derived Inorganic and Hybrid Materials: Basic Chemistry, Processing, Applications, Hybridation” of Dr. Clement Sanchez, “Integrative Chemistry Based Routes to Nanostructured, and Hierarchimically structured, Functional Solids” of Dr. Clement Sanchez. Faculty of Pharmacy. UCM. April 2011.
- Adviser in the Follow-up Program for masters degrees at the UPV/EHU, 2013.
- Vocal in the Science Committee Program Previous of contracted Teachers of Qualitat de la Uniersitaria de les Illes Balears. 14 August 2014.