



María Vallet-Regí

Full Professor

Department of Chemistry in Pharmaceutical Sciences at Universidad Complutense de Madrid (UCM), Spain

Leader of the Smart Biomaterials Research Group

Group leader of the Biomedical Research Networking centre in Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), and of the Research Institute of the Hospital 12 de Octubre (i+12), Madrid. Spain

Recipient of an **ERC Advanced Grant**: *Polyvalent mesoporous nanosystem for bone diseases*.

Contact:

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ORCID: 0000-0002-6104-4889

Google Scholar: <http://scholar.google.es/citations?user=viPyI4EAAAAJ&hl=es&oi=ao>

[Highly Cited Researchers 2018](#)

Current Research:

- Bioceramics based bone grafting materials and scaffolds for regenerative biomedicine.
- Production and study of bioceramic systems for controlled release of biotechnological and antitumoral species.
- Nanoparticles and biocompatible matrices for biotechnological applications.
- Silica based ordered mesoporous materials as release systems of biologically active species, cell encapsulation in silica porous materials, mesoporous materials for gene therapy and transfection, organic-inorganic hybrid materials.

Other interests:

- Dissemination of Science to society: more than 100 activities.
- International cooperation: numerous projects and Courses taught with Developing Countries and the free assignment of a patent for water purification.

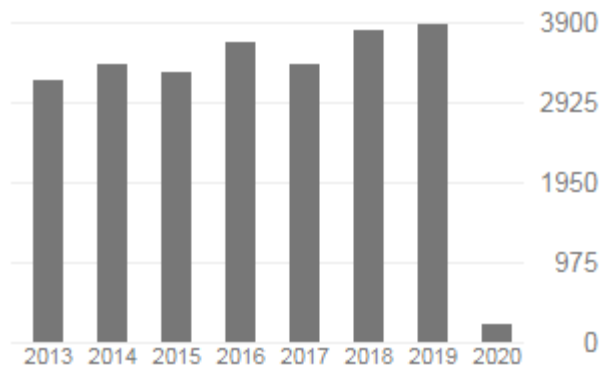
Biographical sketch

Prof. Vallet-Regi is a recognized pioneer in the field of mesoporous ceramic materials applied to biomedicine. Her work pointed towards potential biomedical use of these materials, particularly in the field of bone tissue regeneration. Moreover, she was also a leading innovator in showing the capacity of these systems to act as “drug delivery systems”; these materials can be loaded with biological active molecules, such as drugs, peptides, proteins and growth factors, to achieve a controlled drug release of these molecules. Her first publication describing these achievements (Chem Mater 13,308-311, 2001; 1818 cites) opened a new therapeutic window, which has ended up in the launching of a novel profitable research field. This paper meant her incorporation to the 1K club of Chem Mater (I.F.= 9.407), which devoted an editorial to her including sentences like: “M. Vallet-Regí and her team published in 2001 an extremely influential article which showed for the first time that MCM mesoporous materials could be used as drug delivery devices”. “The motivation behind this effort is remarkable and highlights the importance of multidisciplinary science as a source of creativity and ideas”. “This paper is a fine example of innovative and timely research, which has shaped and shaken up the field of materials science in the last few years”. In the last years, she redirected her research towards nanocarriers in stimuli-responsive systems, making converge bioceramics for bone regeneration and drug delivery, with the fight against infection. From October 2016 she obtained the five years ERC Advanced Grant: **Polyvalent mesoporous nanosystem for bone diseases**.

Some facts:

- >675 peer-review papers, 20 books, 38 book chapters, 12 patents.
- h-index: 96 (42.000 Citations, Google Scholar) and 77 (28207 Citations, ISI WoS)
- Highly Cited Researcher 2018 (Clarivate Analytics).
- Prof. Vallet-Regi’s work is characterized by interdisciplinary. Her papers classified in more than 50 Knowledge Areas of WoS
- More than 14 prestigious Awards.
- Doctor Honoris cause by the Basque Country and Jaume I Universities.
- Member of 6 Academies.
- Member of the Editorial Board of Scientific Journals and Organizer of Scientific Meetings.
- Leader of >100 R&D research projects and scientific networks.
- > 300 plenary/invited lectures in Congresses, Universities and Research Centres.
- Outstanding educator. Pioneer in Spain in the teaching of “Biomaterials”. Supervised over 30 graduation, 10 Master and 20 Ph.D. works. Her PhD students achieve relevant positions in Academy and Industry.
- Visiting Professor at INPG-Grenoble (France), NIRIM-Tsukuba (Japan), University of Stockholm (Sweden) and Cagliari University (Italy)
- Numerous institutional responsibilities and commissions of trust
- >100 activities of dissemination of science and international cooperation.

	Total	Desde 2015
Citas	41812	18324
Índice h	96	60
Índice i10	473	334



<http://www.ucm.es/data/cont/media/www/pag-90171/CV.pdf>

<http://www.ucm.es/valletregigroup>

<https://vimeo.com/258578003>

[Highly Cited Researchers 2018](#)

Selected Honors and Awards:

- 2019 George Winter Award.
- 2019 FEMS Award for Innovation in Materials
- 2019 Medal of Merit in Research and University Education. The Government of Spain.
- 2019 Influentials Career Award. El Confidencial and Herbert Smith Freehills.
- 2018-Rei Jaume I Award in Basic Research.
- 2017-Julio Peláez Award to Pioneer Women in Sciences, Physics, Chemistry and Mathematics.
- 2016-Lilly Award to the Distinguished Career in Chemistry.
- 2015-IDEA2 2015 Award. Autonomous Community of Madrid and Massachusetts Institute of Technology Consortium.
- 2015-Doctor *Honoris Causa* by the Universidad Jaume I, Castellón, Spain
- 2014- GACETA DENTAL Research Award.
- 2014-Member of the International Scientific Committee of Basque Center for Materials Applications & Nanostructure.
- 2014-IDEA2 Award. Autonomous Community of Madrid and MIT Consortium.
- 2013-IUPAC Distinguished Woman in Chemistry and Chemical Engineering.
- 2013-Doctor *Honoris Causa* by the Basque Country University.
- 2013-Research Prize in Sciences “Miguel Catalán” of the Autonomous Community of Madrid.
- 2011-Research Prize of the Business Federation of Spanish Chemical Industries (FEIQUE).
- 2011-Gold Medal of the Spanish Royal Society of Chemistry (RSEQ).
- 2010- Evaluator of the National Research Program “Smart Materials” (NRP 62) of the Swiss National Science Foundation (SNSF) and Swiss Innovation Promotion Agency (CTI).
- 2009-2015- 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.
- 2009-2017 Member of Scientific advisory board (SAB) of EXSELENT. University of Stockholm.
- 2008-National Research Prize in Engineering “Leonardo Torres Quevedo”, Education Ministry.
- 2008-Prize in Inorganic Chemistry of the Spanish Royal Society of Chemistry (RSEQ).
- 2000-French-Spanish Prize “Catalán Sabatier” of the French Chemical Society.
- 1999-2007- Spanish Royal Society of Chemistry (R.S.E.Q.) Member and Vice-president.
- 1993-2003- Member of the “Science for peace steering group” of the NATO.

Academy Membership:

- Since 2019 Honorary Academician elected by the Royal European Academy of Doctors (READ).
- Since 2017 Fellow of the American Institute for Medical and Biological Engineering (AIMBE).
- Since 2012 International College of Fellows of Biomaterials Science & Engineering (ICF-BSE)
- Since 2011 Fellow of the Spanish Royal Academy of Pharmacy (RANF), Medal XLII
- Since 2004 Fellow of the Spanish Royal Academy of Engineering (RAI), Medal LII.
- Since 1997 Elected Honorary Member of the Materials Research Society of India.

Selected institutional responsibilities:

- Member of the “Science for peace steering group” of the NATO, 1999-2003.

- Evaluator of the National Research Program “Smart Materials” (NRP 62) of the Swiss National Science Foundation (SNSF) and Swiss Innovation Promotion Agency (CTI). 2010.
- Member of Scientific advisory board (SAB) of EXSELENT. University of Stockholm. 2009...
- Advisor of the Materials for the Future Cluster. Project: “The University City of Moncloa: a Campus of International Excellence in the City of Madrid”. UCM. 2009-2015.
- Member of the International Scientific Committee of Basque Center for Materials Applications & Nanostructure 2014....
- Evaluator of the proposals for Euronanomed and more than 10 Spanish Quality Agencies
- Panel Member for the panel PE8, European Research Council (ERC) Consolidator Grant
- Spanish Royal Society of Chemistry (R.S.E.Q.) Member and Vice-president 1999 - 2007

Commissions of Trust:

- President Advisory Committee (Chemistry) of the National Commission for the evaluation of research activity (Ministry of Education), 2004-06. (Secretary, 2002-04, Board Member, 2006-09).
- Coordinator of the Technology and Health Program; Autonomous Community. 2004.
- President of the Ministry Commission of Technology of Materials, 1996 -1999

Editorships:

- 1995-2000, International Advisory Editorial Board Member of Journal of Materials Chemistry of RSC
- 2005-International Advisory Editorial Board Member of the Journal Bulletin of Materials Science.
- 2007- Editorial Board Member of The Open Inorganic Chemistry Journal (Bentham Science).
- 2007-Editorial Board Member of The Open Biomedical Engineering Journal (Bentham Science).
- 2010-Editorial Board Member of Journal of Biomaterials and Nanobiotechnology.
- 2010-Editorial Board of Bioceramics Development and Application.
- 2011-Editorial Board Member of Acta Biomaterialia.
- 2011-Honorary Advisors of Journal of Biomaterials and Tissue Engineering.
- 2012-Editorial Board Member of Journal of Ceramics.
- 2013-Editorial Board Member of Academic and Scientific Publishing.
- 2017-Editorial Board of Nanomotors for nucleic acid detection.
- 2018- Editorial Board Member of Nanomaterials.

Conference Organization:


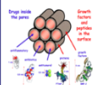
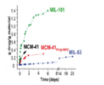
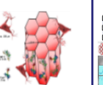
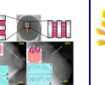
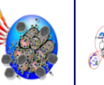
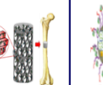

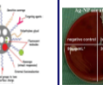
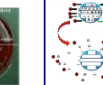
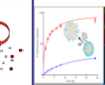
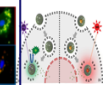

- Chair, MINISYMPOSIUM ON BIOCERAMICS. Seminario Internacional Complutense. Madrid, Spain (1997).
- Co-chair, VIIth EUROPEAN CONFERENCE ON SOLID STATE CHEMISTRY. Madrid, Spain (1999).
- National scientific committee and chair, 17th EUROPEAN CONFERENCE ON BIOMATERIALS. Barcelona, Spain (2002).
- Chair, 1st INTERNATIONAL WORKSHOP JAPAN-SWEDEN-SPAIN. UCM, Madrid, Spain (2007).
- Coordinator, INTERNATIONAL SYMPOSIUM DRUGS, NANOMEDICINE AND BIOMATERIALS: A COMMON GOAL. Areces Foundation, Madrid, Spain (2012).

- Coordinator, INTERNATIONAL SYMPOSIUM THE CANCER AS A RESULT OF AGING: POTENTIAL SOLUTIONS. Areces Foundation Madrid, Spain (2015).
- Coordinator, SIMPOSIO INTERNACIONAL MATERIALES MESOPOROSOS: DE 1991 A 2018. Areces Foundation , Madrid, Spain (2018).

Research Facts:

Author or co-author of over 650 articles, 10 books, 5 as editor, 50 books chapters, 10 patents and >600 communications to Congresses where he taught > 50 plenary and invited lectures.

- h-index = 96 (Google Scholar),
- Citations >42.000
- Highly Cited Researcher 2019 (Clarivate Analytics)
- <https://www.ucm.es/data/cont/media/www/pag-90171/List%20of%20publications.pdf>
- Rank 1st of all the Professors of the University Complutense after the Bibliometric portal of University according to the h-index found un database Scopus of Elsevier (December 2018).
- Rank 55th among the 37,819 scientists in Spanish institutions from data collected in December 2016.in ACUMEN project from European Commission 7th Framework Program, and CSIC.
- Quality of her publications: >60% of the publications in Q1 Journals (first quartile of its category), >40% in D1 Journals (first decile of its category). Moreover, several articles are top 1% by number of citations (Tables)
- Interdisciplinary of her research: WoS classifies her publications in 51 Knowledge Areas with great impact on many. Thus, based on Maria Vallet's h-index that is 91, if the h- index is calculated taking into account only its publications in each of the Areas in Isi WoS, there are very high index-h values such as 63 in Materials Science (current second Spanish researcher, first for several decades), Chemistry 58, Engineering 52, Physics 50, etc.

 First 1% of the most cited articles in its academic field (Web of Science)											
Cites: 2109 I.F.: 12.102	Cites: 1136 I.F.: 14.357	Cites: 391 I.F.: 6.383	Cites: 345 I.F.: 6.735	Cites: 321 I.F.: 13.709	Cites: 298 I.F.: 40.182	Cites: 241 I.F.: 9.890	Cites: 180 I.F.: 4,210	Cites: 190 I.F.: 6.626	Cites: 147 I.F.: 5.553	Cites: 165 I.F.: 105 F.I.: 13 709	Cites: 53 I.F.: 5.657
Angew. Chem. Int. Ed. 46, 7548-7558, 2007	J. Am. Chem. Soc. 130 (21) 6774-6780 2008	Acta Biomater. 6, 2874-2888 2010	Chem. Eng. J. 137, 30-37 2008	ACS Nano. 5 (2), 1259-1266 2011	Chem. Soc. Rev. 40 (2), 596-607 2011	Chem. Mater. 24, 517-524 2012	Biomater. Sci. 1, 114-134 2013	J. Mater. Chem. 12, 1634-1643 2014	Expert Opin. Drug Del. 12, 319-337 2015	ACS Nano. 9 (11), 11023-11033 2015	Expert Opin. Drug Del. 14 (2) 229-243 2017
											

Publications with more than 200 citations in Google Scholar:

- Mesoporous materials for drug delivery. M Vallet-Regí, F Balas, D Arcos. *Angewandte Chemie International Edition* 46, 7548-7558. 2007.
Citations in Scholar: **2.109** F.I.: **12.102**
- A new property of MCM-41: drug delivery system. M Vallet-Regí, A Ramila, RP Del Real, J Pérez-Pariente. *Chemistry of Materials* 13, 308-311. 2001.
Citations in Scholar: **1.818** F.I.: **9.890**
- Metal–organic frameworks as efficient materials for drug delivery. P Horcajada, C Serre, M Vallet-Regí, M Sebban, F Taulelle, G Férey. *Angewandte Chemie* 118, 6120-6124. 2006.
Citations in Scholar: **1.449** F.I.: **12.102**
- Flexible porous metal-organic frameworks for a controlled drug delivery. P. Horcajada, Ch. Serre, G. Maurin, N.A Ramsahye, F. Balas, M. Vallet-Regí, M. Sebban, F. Taulelle, G. Férey. *Journal of the American Chemical Society* 130, 6774-6780. 2008.
Citations in Scholar: **1.136** F.I.: **14.357**
- Calcium phosphates as substitution of bone tissues. M Vallet-Regí, JM González-Calbet. *Progress in Solid State Chemistry* 32, 1-31. 2004.
Citations in Scholar: **993** F.I.: **9.313**
- MCM-41 organic modification as drug delivery rate regulator. B Munoz, A Ramila, J Perez-Pariente, I Diaz, M Vallet-Regí. *Chemistry of Materials* 15, 500-503. 2003.
Citations in Scholar: **644** F.I.: **9. 890**
- Influence of pore size of MCM-41 matrices on drug delivery rate. P Horcajada, A Ramila, J Perez-Pariente, M Vallet-Regí. *Microporous and Mesoporous Materials* 68 (1), 105-109. 2004.
Citations in Scholar: **551** F.I.: **3.649**
- Ordered mesoporous materials in the context of drug delivery systems and bone tissue engineering. M Vallet-Regí. *Chemistry-A European Journal* 12, 5934-5943. 2006.
Citations in Scholar: **485** F.I.: **5.160**
- Ceramics for medical applications. M Vallet-Regí. *Journal of the Chemical Society, Dalton Transactions*, 97-108. 2001.
Citations in Scholar: **477** F.I.: **4.099**
- Glasses with medical applications. M Vallet-Regí, C Ragel, AJ Salinas. *European Journal of Inorganic Chemistry* 2003 (6), 1029-1042. 2003.
Citations in Scholar: **397** F.I.: **2.507**
- Confinement and controlled release of bisphosphonates on ordered mesoporous silica-based materials. F Balas, M Manzano, P Horcajada, M Vallet-Regí. *Journal of the American Chemical Society* 128, 8116-8117. 2006.
Citations in Scholar: **396** F.I.: **14.357**
- Mesoporous SBA-15 HPLC evaluation for controlled gentamicin drug delivery. AL Doadrio, EMB Sousa, JC Doadrio, J Pérez Pariente, I Izquierdo-Barba, M Vallet-Regí. *Journal of Controlled Release* 97, 125-132. 2004.
Citations in Scholar: **395** F.I.: **7.877**
- Sol–gel silica-based biomaterials and bone tissue regeneration. D Arcos, M Vallet-Regí. *Acta Biomaterialia* 6, 2874-2888. 2010.
Citations in Scholar: **391** F.I.: **6.383**
- 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 Colilla, MR Delgado, M Vallet-Regí. *Chemical Engineering Journal* 137, 30-37. 2008.
Citations in Scholar: **345** F.I.: **6.735**
- Smart drug delivery through DNA/magnetic nanoparticle gates. E Ruiz-Hernandez, A. Baeza, M Vallet-Regí. *ACS nano* 5, 1259-1266. 2011.
Citations in Scholar: **321** F.I.: **13. 709**

- Revisiting silica based ordered mesoporous materials: medical applications. M Vallet-Regí, L Ruiz-González, I Izquierdo-Barba, JM González-Calbet. *Journal Materials Chemistry* 16, 26-31. 2006.
Citations in Scholar: **308** F.I.: **6.626**
- Functionalization of mesoporous materials with long alkyl chains as a strategy for controlling drug delivery pattern. J.C Doadrio, E.MB Sousa, I. Izquierdo, A.L Doadrio, J. Perez-Pariente, M. Vallet-Regí. *Journal of Materials Chemistry* 16 (5), 462-466. 2006.
Citations in Scholar: **305** F.I.: **6.626**
- Medical applications of organic–inorganic hybrid materials within the field of silica-based bioceramics. M Vallet-Regí, M Colilla, B González. *Chemical Society Reviews* 40, 596-607. 2011.
Citations in Scholar: **298** F.I.: **40.182**
- 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. 2002.
Citations in Scholar: **297** F.I.: **8. 806**
- Ordered mesoporous bioactive glasses for bone tissue regeneration. A López-Noriega, D Arcos, I Izquierdo-Barba, Y Sakamoto, O Terasaki, M Vallet-Regí. *Chemistry of materials* 18, 3137-3144. 2006.
Citations in Scholar: **265** F.I.: **9. 890**
- New developments in ordered mesoporous materials for drug delivery. M Manzano, M Vallet-Regí. *Journal of Materials Chemistry* 20, 5593-5604. 2010.
Citations in Scholar: **256** F.I.: **6.626**
- Magnetically triggered multidrug release by hybrid mesoporous silica nanoparticles. A Baeza, E Guisasola, E Ruiz-Hernández, M Vallet-Regí. *Chemistry of Materials* 24, 517-524. 2012.
Citations in Scholar: **241** F.I.: **9. 890**
- Bioceramics: from bone regeneration to cancer nanomedicine. M Vallet-Regí, E Ruiz-Hernández. *Advanced Materials* 23, 5177-5218. 2011.
Citations in Scholar: **239** F.I.: **21.950**
- Release evaluation of drugs from ordered three-dimensional silica structures. Izquierdo-Barba, Á. Martínez, A.L Doadrio, J. Pérez-Pariente, M. Vallet-Regí. *European Journal of Pharmaceutical Sciences* 26, 365-373. 2005.
Citations in Scholar: **233** F.I.: **4.491**
- Silicon substituted hydroxyapatites. A method to upgrade calcium phosphate based implants. M Vallet-Regí, D Arcos. *Journal of Materials chemistry* 15, 1509-1516. 2005.
Citations in Scholar: **231** F.I.: **6.626**
- In vitro biocompatibility assessment of poly (ϵ -caprolactone) films using L929 mouse fibroblasts. MC Serrano, R Pagani, M Vallet-Regi, J Pena, A Ramila, I Izquierdo, MT Portolés. *Biomaterials* 25, 5603-5611. 2004.
Citations in Scholar: **226** F.I.: **8. 806**
- Controlled crystallization of calcium phosphate apatites. LM Rodriguez-Lorenzo, M Vallet-Regi *Chemistry of materials* 12, 2460-2465. 2000.
Citations in Scholar: **221** F.I.: **9. 890**
- Hexagonal ordered mesoporous material as a matrix for the controlled release of amoxicillin. M Vallet-Regi, JC Doadrio, AL Doadrio, I Izquierdo-Barba, J Pérez-Pariente. *Solid State Ionics* 172, 435-439. 2004.
Citations in Scholar: **212** F.I.: **2.751**
- Mesoporous MCM-41 as drug host system. A Rámila, B Munoz, J Pérez-Pariente, M Vallet-Regí. *Journal of sol-gel science and technology* 26, 1199-1202. 2003.
Citations in Scholar: **210** F.I.: **1.745**
- Revisiting ceramics for medical applications. M Vallet-Regí. *Dalton Transactions*, 5211-5220. 2006.

- Citations in Scholar: **205** F.I.: **4.099**
- The dissolution and biological effects of silver nanoparticles in biological media. K Loza, J Diendorf, C Sengstock, L Ruiz-Gonzalez, JM Gonzalez-Calbet, M Vallet-Regi, M Köller, M Epple. *Journal of Materials Chemistry B* 2 (12), 1634-1643. 2014.
Citations in Scholar: **200** F.I.: 6.626
 - Bioactivity of a CaO–SiO₂ Binary Glasses System. A Martinez, I Izquierdo-Barba, M Vallet-Regi. *Chemistry of Materials* 12 (10), 3080-3088. 2000.
Citations in Scholar: **205** F.I.: 9.890
 - The influence of proteins on the dispersability and cell-biological activity of silver nanoparticles. S Kittler, C Greulich, JS Gebauer, J Diendorf, L Treuel, L Ruiz, JM Gonzalez-Calbet, M Vallet-Regi, R Zellner, M Köller, M Epple. *Journal of Materials Chemistry* 20 (3), 512-518. 2010.
Citations in Scholar: **201** F.I.: **6.626**

Selection of publications of the last 8 years:

- S. Montalvo, G. Aragoneses, L. Garcia, M. Vallet Regí, María, B. González, J.L. Luque. CANCER CELL TARGETING AND THERAPEUTIC DELIVERY OF SILVER NANOPARTICLES BY TRANSFERRIN DECORATED MESOPOROUS SILICA NANOCARRIERS: INSIGHTS INTO THE ACTION MECHANISMS BY QUANTITATIVE PROTEOMICS. *Nanoscale*. 11, 4531-4545 (2019). F.I.: **7.233**
- G. Villaverde, A. Alfranca, A. González-Murillo, G.J. Menen, R. R. Castillo, M. Ramírez., A. Baeza, M. Vallet-Regí. MOLECULAR SCAFFOLDS AS DOUBLE TARGETING AGENTS FOR THE DIAGNOSIS AND TREATMENT OF NEUROBLASTOMA. *Angew. Chem. Int. Ed.* 58, 3067-3072 (2019). F.I.: **12.102**
- M. Manzano, M. Vallet-Regí. ULTRASOUND RESPONSIVE MESOPOROUS SILICA NANOPARTICLES FOR BIOMEDICAL APPLICATIONS. *Chem. Commun.* 55, 2731-2740 (2019). F.I.: **6.290**
- N. Encinas, M. Angulo, C. Astorga, M. Colilla, I. Izquierdo-Barba, M. Vallet-Regí. MIXED-CHARGE PSEUDO-ZWITTERIONIC MESOPOROUS SILICA NANOPARTICLES WITH LOWFOULING AND REDUCED CELL UPTAKE PROPERTIES. *Acta Biomaterialia* . 84, 317-327 (2019). F.I.: **6.383**
- R. Castillo; D. Lozano; M. Vallet-Regí. BUILDING BLOCK BASED CONSTRUCTION OF MEMBRANE-ORGANELLE DOUBLE TARGETED NANOSYSTEM FOR TWO-DRUG DELIVERY. *Bioconjugate Chemistry*. 29 (11) 3677-3685 (2018). F.I.: **4.485**
- M.R. Villegas, A. Baeza, A. Nouredine, P. Durfee, K. Butler, J. Agola, J.C. Brinker, M. Vallet Regí. MULTIFUNCTIONAL PROTOCELLS FOR ENHANCED PENETRATION IN 3D EXTRACELLULAR TUMORAL MATRICES. *Chem. Mater.* 30, 112-120 (2018). F I : **9.890**
- E. Guisasola, L. Asín, L. Beola, J.M. de la Fuente, A. Baeza, M. Vallet-Regí. BEYOND TRADITIONAL HYPERTHERMIA. IN VIVO CANCER TREATMENT WITH MAGNETIC-RESPONSIVE MESOPOROUS SILICA NANOCARRIERS. *ACS Appl. Mater. Interfaces*. 10, 12518-12525 (2018). F.I.: **8.097**
- M.A. Moreno, J. Sedó, E. Guisasola, A. Baeza, M. Vallet Regí, F. Nador, D. Ruiz. POLYDOPAMINE-LIKE COATINGS AS PAYLOAD GATEKEEPERS FOR MESOPOROUS SILICA NANOPARTICLES. *ACS Appl. Mater. Inter.* 10, 7661-7669 (2018). F.I.: **8.097**
- B. González, M. Colilla, J. Díez, D. Pedraza, M. Guembe, I. Izquierdo-Barba, M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES DECORATED WITH POLYCATIONIC DENDRIMERS FOR INFECTION TREATMENT. *Acta Biomaterialia*. 68, 261-271 (2018). F.I.: **6.383**
- A.Y. Rweij, J.L. Paris, B. Wang, W. Wang, C.D. Axon, M. Vallet-Regí, R. Langer, D.S. Kohane. ULTRASOUND TRIGGERED LOCAL ANAESTHESIA. *Nat. Biomed. Eng.* 1 (8), 644–653 (2017).

- J.L. Paris, P. de la Torre, M.V. Cabañas, M. Manzano, M. Grau, A.I. Flores, M. Vallet-Regí. VECTORIZATION OF ULTRASOUND-RESPONSIVE NANOPARTICLES IN PLACENTAL MESENCHYMAL STEM CELLS FOR CANCER THERAPY. *Nanoscale*, 9, 5528–5537 (2017). F.I.: **7.233**
- G. Villaverde, V. Nairi, A. Baeza, M. Vallet-Regí. DOUBLE SEQUENTIAL ENCRYPTED TARGETING SEQUENCE: A NEW CONCEPT FOR BONE CANCER TREATMENT. *Chem. Eur. J.* 23,7174 –7179 (2017). F.I.: **6.735**
- 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). F.I.: **12.080**
- 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). F.I.: **13.709**
- 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). F.I.: **8.097**
- 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). F.I.: **9.598**
- 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). F.I.: **11.325**
- 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). F.I.: **6.383**
- M.C.Matesanz, M.Vila, M.J.Feito, J.Linares, G.Gonçalves, M.Vallet-Regí, 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). F.I.: **8.806**
- D. Arcos, M. Vallet-Regí. BIOCERAMICS FOR DRUG DELIVERY. *Acta Materialia*. 61, 890-911 (2013). F.I.: **6.383**
- J. Simchenn, A. Baeza, D. Ruiz, M. Esplandiu, M. Vallet-Regí. ASYMMETRIC HYBRID SILICA NANOMOTORS FOR CAPTURE AND CARGO TRANSPORT: TOWARDS A NOVEL MOTION-BASED DNA SENSOR. *Small*. 8, 2053-2059 (2012). F.I.: **9.598**
- 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). F.I.: **9.890**
- 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). F.I.: **40.182**
- M Vallet-Regí and E. Ruiz-Hernández. BIOCERAMICS: FROM BONE REGENERATION TO CANCER NANOMEDICINE. *Adv. Mater.* 23, 5177–5218. (2011) Review. F.I.: **21.950**
- E. Ruiz-Hernández, A. Baeza, M. Vallet-Regí. SMART DRUG DELIVERY THROUGH DNA/MAGNETIC NANOPARTICLE GATES. *ACS Nano*. 5, 1259–1266 (2011) F.I.: **13. 709**
- 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, 2956 - 2958 (2010). F.I.: **6.290**
- M. Vallet-Regí. NANOSTRUCTURED MESOPOROUS SILICA MATRICES IN NANOMEDICINE. *J. Internal Medicine*. 267, 22-43 (2010). F.I.: **6.754**

Knowledge Transfer:

For years, the knowledge she has been developing has been transferred to the following companies:

- Funding Company: Colorobbia España, S.A.
Contract title: Bactericidal properties of titanium oxide
Year: 1997
- Funding Company: Colorobbia España, S.A.
Contract title: Development of a phosphorescent enamel
Year: 2001
- Funding Company: CBA Expansivos, S. L.
Contract title: Expansive demolishing cement
Year: 2002
- Funding Company: Medical Precision Implants
Contract title: Roughness Test (SEM) and In vitro Biological Test
Year: 2017
- Funding Company/Administration: Medical Precision Implants
Contract title: Roughness Test (SEM) and In vitro Biological Test
Year: 2018
- Funding Company: MIS Ibérica,S.L.
Contract title: Roughness Testing (SEM) and Biological Testing in Type of contract: Article 83
Years: 2017-2018

Patents:

- "Phosphorescent pigment, procedure for obtaining it and its applications". Application No: 200002703/2 Country: Spain-Italy Date: 10-11-2000 extended: CE and Brazil. Company that is exploiting it: COLOROBIA SPAIN S.A. (SPAIN).
- "Method for producing bioactive implants that are used as systems for the controlled release of antibiotics". No: P200101386, ES2181593, PCT/ES2002/000301. Date: 27-12-02. Until 2021.
- "Device for measuring continuous magnetic fields, based on manganese mixed oxides having a perovskite structure". No: P200502629, PCT/ES2006/000598 Date: 10-05-2007. Until 2025.
- "Method for the low-temperature preparation of bioceramic pieces with designed and interconnected three-dimensional porosity". No: P200802813, ES2333851, PCT/ES2009/000480. Date 08-04-2010. Until 2028.
- "Procedure for the preparation of a ceramic hybrid material of nanocrystalline clacio phosphate - organic coloring agent". No: P200901633, ES22701045, PCT/ES2010/000327 Date: 27-01-2011. Until 2029.
- "Manufacture of three-dimensional scaffolding with bioactive mesoporous glass by means of rapid prototyping". No: P201000353, ES2378044. Date: 04-04-2012. Until 2030.
- "Pure ceramic macroporous scaffold based on nanocrystalline apatite, preparation method and applications". No: P2010957, ES2373286, PCT/ES2011/000229 Date: 02-02-2012. Until 2030.
- "Biomaterial with osteostatin for bone regeneration and tissue engineering". No: P201031193, ES2373896, PCT/ES2011/070547. Date: 10-02-2012. Until 2030.
- "Bioceramic materials for the treatment of osteomyelitis". No: P201100655, ES2393602, PCT/ES2012/000160. Date: 4-04-2013.

- “Biocompatible implants made of nanostructured titanium with antibacterial properties”. No: P201430616, ES2552278, PCT/ES2015/070345. Date: 07-09-2016. In force. Subscribed in March 2017 the 3rd annuity of the European patent application. In proceedings for protection in USA.
- "Nanocapsules with controlled degradation for sustained release of collagenase in clinical applications". Patent No: EP18382005.9. Date of publication. 09-01-2018.
- “Ligands for enhanced imaging and drug delivery to neuroblastoma cells”. No: EP18382207.1 Date: 26-03-2018.

Applications in the Clinic:

Prof. Vallet-Regí is widely regarded for her contributions to **Biotechnology** and **Medicine**. Moreover, she is a Highly Cited Researcher 2018 (Clarivate Analytics). This list recognizes world-class researchers selected for their exceptional research performance, demonstrated by production of multiple highly cited papers that rank in the top 1% by citations per field and year in Web of Science. She is recognized as a pioneer in the field of ceramic materials applied to medicine. On one hand, she has been working in the biomaterials area developing bioceramics for bone grafting applications and scaffolds for regenerative biomedicine. On the other hand, prof. Vallet-Regí has intensely investigated on nanocarriers of different nature to deliver therapeutic agents to diseased tissues without affecting healthy organs. She was the pioneer who suggested introducing drugs into the pores of mesoporous silica materials, which inspired thousands of publications worldwide involving mesoporous silica nanoparticles for drug delivery.

The technology on smart drug delivery nanocarriers developed by Prof. Vallet-Regí drew the attention of many oncologists, such as Dr. Manuel Ramírez-Orellana, a prestigious pediatric oncologist who works in Neuroblastoma, the most frequent extracranial pediatric tumor. It presents a dismal prognosis despite the combination of chemotherapy, radiotherapy, surgery and bone marrow transplants. As a consequence of a fruitful collaboration, Prof. Vallet-Regí developed nanocarriers able to detect and destroy only neuroblastoma cells and the subsequent patent (*Ligands for enhanced imaging and drug delivery to neuroblastoma cells. Patent No: EP18382207.1*) is expected to fuel the **translation of this technology to the clinic** to be applied to patients. Additionally, Prof. Vallet-Regí works closely with the Association of Families with Children Affected by Neuroblastoma, through the following project: *Development of intelligent nanotransporters for neuroblastoma therapy*.

Prof. Vallet-Regí has also developed a novel stimuli-responsive nanodevice based on nanocapsules with controlled degradation for the sustained release of collagenase. This technology is on the first steps of **preclinical analyses** for the potential treatment of scleroderma, a fibrotic disease characterised by an abnormal accumulation of collagen. The transport and release of a proteolytic enzyme such as collagenase able to digest collagen fibers has been tested both in vitro and in vivo using an animal model. The research team involved in this project includes specialized professionals in nanotechnology and medicine from Hospital 12 de Octubre in Madrid, Spain, and lead to the patent *Nanocapsules with controlled degradation for sustained release of collagenase in clinical applications (Patent No: EP18382005.9)*.

The research group of prof. Vallet-Regí has produced hundreds of publications on Stimuli-Responsive Mesoporous Silica Nanoparticles (<http://www.ucm.es/valletregigroup>). In this sense, Prof. Vallet-Regí has obtained **promising results on cell studies** using many different stimuli to trigger the release of the therapeutic cargo, such as ultrasound, magnetic field, light, near infrared, pH or presence of certain enzymes (see CV for publications in this area).

As a consequence of Prof. Vallet-Regí scientific results, both **Government Agencies and Companies have shown interest on commercializing her work**. In this sense, and based on the Advanced Grant from the European Research Council (ERC-2015-AdG Proposal No.694160, VERDI), the ERC has granted prof. Vallet-Regí the Proof of Concept Grant entitled: Developments of Collagenase Polymeric nanocapsules as Therapeutics (DECOMPACT). The goal of this proof of concept project is the development and commercialization of a novel treatment to scleroderma and the first clinical trials in patients is being designed in collaboration with 12 de Octubre University Hospital. Additionally, the Company Canaan Research & Investment has shown interest on Prof. Vallet-Regí work. Her research team has recently participated in the “Health Investment Forum”, thanks to which, there are several companies bidding to work with them.

Prof. Vallet-Regí has also worked in collaboration with GlaxoSmithKline (GSK) Company in the development of three-dimensional polymeric scaffolds prepared by the technique of rapid prototyping. The 3D scaffolds with macroporous structure were designed for hepatocyte cell culture and evaluation of hepatotoxicity. GSK Company is interested in the development of these 3D scaffolds for their direct application in the initial stages of the discovery process of new drugs by using them in the **drug screening** of efficacy and hepatic toxicity.

In addition, she was recipient of two IDEA² Awards in biomedical innovation competition of the M+Vision Consortium participated by the MIT and the Autonomous Community of Madrid entitled NANOIMPLANT: nanostructured coatings for orthopedic implants (2014) and NANODRONE: Nanomedicines targeted to Neuroblastoma (2015). Prof. Vallet-Regí has also thoroughly worked on treatment and prevention of orthopaedic implant-associated infections. She has developed, in collaboration with a CSIC group, a new technology able to avoid bacterial colonization and biofilm formation onto titanium implants, while promoting bone bonding. This technology is based on tailoring the surfaces of titanium at the nanoscale and has been recognized with the MIT-IDEA2 award above mentioned. The patent (*Biocompatible implants made of nanostructured titanium with antibacterial properties Patent No: PCT/ES2015/070345*) has generated **high interest from multinational companies** (DePuy Synthes) on a **potential translation to the clinical** application.

Teaching activities:

Maria Vallet-Regi is a widely recognised as outstanding educator and often invited to teach courses in and to teach the opening course lectures in many Spanish Universities. Along her teaching career:

- Pioneer in the teaching of the subject “Biomaterials” in graduate programs like Pharmacy and Materials Engineering of UCM and several doctoral programs: i) “Inorganic Materials” (UCM) and ii) “Surgery of the locomotor system” (UAM, 1999-2010).
- She taught master classes as invited professor in 16 doctoral graduate programs and 12 master courses.

Supervision of graduate students and postdoctoral fellows:

Maria Vallet-Regi educates students and doctoral staff members on how to become great chemists and engineers and how to do great research. She has supervised over 30 works of undergraduate students, 10 Master of Advanced Studies of graduate students and 20 Ph.D. works.

Her PhD. Students are currently holding relevant permanent positions at different institutions: i) Universities: 13 professors; ii) research centres (CSIC: 9 researchers; CNRS: 1 permanent researcher (Chargé de Recherché); iii) public and private companies (F. Hoffmann-La Roche Ltd. Basel, Switzerland and MedinCell in Montpellier).

International collaborations:

- Waseda University, Japan
- School of Physical Science and Technology (SPST), ShanghaiTech University, China.
- Department of Microbiology, Immunology and Molecular Genetics, UCLA, CA, USA
- Institute for Advanced Study, Kyoto University, Kyoto, Japan
- Shaare Zedek MC and Hebrew University-School of Medicine, Jerusalem, Israel
- Collège de France, Paris
- Ludwig-Maximilians-Universität München, Germany
- Dep. of Chemical Engineering Technion – Israel Institute of Technology, Haifa
- Stockholm University, Suecia
- Vornia Limited, Dublin. Ireland.
- Cellogic GMBH, Berlin. Germany
- Charité – Universitätsmedizin Berlin, Germany
- Delsitech Oy, Turku. Finland
- Friedrich-Alexander-Universität Erlanger, Nürnberg. Germany
- Nanolith Sverige AB, Bromma. Sweden
- Nobil Bio Ricerche SRL, Portacomaro. Italy
- National Center for Scientific Research “Demokritos”, Agia Paraskevi. Greece
- Politecnico di Torino, Torino. Italy
- The University of Sheffield, Sheffield. United Kingdom
- Iuliu Hațieganu University, Cluj-Napoca. Romania
- University of Tartu, Tartu. Estonia
- IRCCS AOU San Martino – IST, Génova. Italia
- University of Strasbourg, Strasbourg. France
- Research Center "E. Piaggio," University of Pisa, Pisa. Italy
- School of Engineering, Newcastle University, Newcastle. UK
- School of Mechanical and Systems Engineering, Newcastle University, Newcastle.UK
- Institute for Technology Inspired Regenerative Medicine, Maastricht University, Netherlands
- Center for Neuroscience and Cell Biology & Department of Life Sciences, Univ. Coimbra, Portugal
- School of Mechanical and Manufacturing Engineering, Dublin City University. Ireland
- University of Crete, Crete. Greece
- Università di Cagliari, Cagliari. Italy
- University of California Los Angeles, Los Angeles, CA. USA
- Chemical and Nuclear Engineering and Molecular Genetics and Microbiology University of New México, USA.
- University of Oxford, Department of Engineering Science, Oxford. United Kingdom
- Institute for Medical Engineering & Science, Cambridge, Massachusetts. United States

- Boston Children's Hospital – Harvard Medical School address, Boston. United States
- University of South Florida, College of Medicine, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida. United States
- Indiana University School of Medicine, IN. United States
- Breast Center, IMO Clinique de Genolier, Genolier. Switzerland
- University of Modena and Reggio Emilia, Modena
- Inorganic Chemistry and Center for Nanointegration Duisburg-Essen University. Germany
- Queensland University of Technology, Brisbane. Australia
- Nanolith Sverige AB (Switzerland)
- Nobil Bio Ricerche (Italy)
- Vornia Biomaterials (Ireland)
- Cellogic GmbH (Germany)
- DeSiTech Ltd. (Finland)
- Bewarrant (Belgium)
- Cellink AB (Sweden)
- Biomech Innovations AG (Switzerland)
- Fluidinova SA (Portugal)
- Novaicos (Italy)
- Yodiwo Anonymi Etaireia Schediasisolokliromenon Kyklomaton (Greece)

Complete list of publications:

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 ZrO_2 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. Hagenmuller. NON STOICHIOMETRY IN THE CALCIUM-LANTHANUM FERRITE $Ca_2LaFe_3O_{8+x}$. *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: $Ca_2LaFe_3O_8$. *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: $Ca_xLa_{1-x}FeO_{3-y}$. ($2/3 < x < 1$). *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: $Ca_xLa_{1-x}FeO_{3-y}$. 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 STOECHEIOMETRIQUES 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 $Ca_xLa_{1-x}FeO_{3-x/2}$ 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 $CaFe_xMn_{1-x}O_{3-y}$ 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 $BaFe_{12}O_{19}$ 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 $(Zn_2)W$, $BaZn_2Fe_{16}O_{27}$ STOECHEIOMETRIE 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 $Ca_2LaFe_3O_{8+z}$. *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. Nº 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.* B42,167-172, (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, Hj. 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 Tc 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 Tc 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. Nº 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 . 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 $\square\text{-Fe}_2\text{O}_3$ 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 Tc 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 $Ba_2ReCu_{3-x}Fe_xO_{7-\eta}$. (Re = Y, Ho) HIGH Tc 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: $Ba_xLa_{1-x}FeO_{3-y}$. 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: $Li_{9.0}W_{19}O_{55}$. 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 $Ba_2HoCu_3O_{7-x}$ HIGH Tc 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 $Bi_4Ca_3Sr_3Cu_4O_{16+\eta}$. 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 $Ca_4Fe_2Ti_2O_{11+z}$. 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 $Ca_4Fe_2Ti_2O_{11}$ 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. $BaFe_{12}O_{19}$ 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 $BaFe_{12-2x}Co_xSn_xO_{19}$ 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 $La_{0.7}Na_{0.3}Fe_{12}O_{19}$. 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 : $YBa_2Cu_3O_{7-y}$ 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 $YBa_2Cu_3O_{7-y}$. 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*, 1155-1159, (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 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 CaMn_{1-x}Fe_xO_{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 Bi₄Sr₉Cu₅O_{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 YBa₂Cu₃O_{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 La_{2-x}Sr_xNiO_{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 Bi₄Ca₃Sr₃Cu₄O_{16+δ} 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 Co²⁺ DOPED M-TYPE BARIUM FERRITE. J. 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 YBa₂Cu₃O₆. J. 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. Alloy. Compd., 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 (La,Nd)₂NiO_{4±δ}. J. Alloy. Compd., 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. Alloy. Compd., 161, 159-64, (1990). A
95. J.M. González Calbet, M. Parras, M. Vallet-Regí, J.C. Grenier. IRRADIATION-INDUCED PHASE TRANSITION IN Ba₂Fe₂O₅. 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: $Z(\text{Ba}_3\text{Cu}_2\text{Fe}_{24}\text{O}_{41})$ 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 $Z(\text{Ba}_3\text{Cu}_2\text{Fe}_{24}\text{O}_{41})$ 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 $(\text{La},\text{Nd})_2\text{NiO}_4$ 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. Alloy. Compd, 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. Alloy. Compd*, 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 $Ba_xLa_{1-x}FeO_{3-y}$ ($1/2 \leq x \leq 2/3$). *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 $(RE)_2NiO_{4\pm\delta}$. *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 $YBa_2Cu_3O_7$. *Transport Properties of Superconductors*, R. Nicolsky ed. World Scientific. 25, 277-82, (1990). A
116. M. Vallet-Regí, J.M. González-Calbet. SYNTHESIS AND MICROSTRUCTURAL CHARACTERIZATION OF $YBa_2Cu_3O_7$ 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 $La_{2-x}Sr_xNiO_{4\pm\delta}$. *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 $Ba_2Fe_2O_{5\pm\delta}$. *J. Alloy. Compd.* 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 $Co_{1-x}P_x$ 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 $Ba_xLa_{1-x}FeO_{3-x/2}$. ($1/2 \leq x \leq 2/3$). *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 $R_2Cu_2O_5$ (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. Badia, L.A. Angurel, F. Lera, R. Navarro. INFLUENCE OF OXYGEN STOICHIOMETRY ON T_c 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 PARTICLES. *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 $\text{Ba}_2\text{NdFe}_3\text{O}_{8.40}$. 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 $\text{Ba}_2\text{Fe}_2\text{O}_5$ 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 SnO_2 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 $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. 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 SnO_2 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 LaNiO_3 . 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 SnO_2 . 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 $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$. 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 $\text{BaFe}_{12}\text{O}_{19}$ 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: $\text{LnBa}_2\text{Fe}_3\text{O}_y$. (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: $\text{LnBa}_2\text{Fe}_3\text{O}_y$. (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 SnO_2 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-γ} 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-γ} 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 YBa₂Cu_{3-x}Fe_xO_γ. *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. OXIGEN 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 Nd_{2-x}Sr_xNiO_{4+δ} 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 La_{2-x}Sr_xNiO_{4+δ} 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 Ba₂Fe₂O₅ SOLVED BY HREM AND CIP. *Acta Crystallogr.* A49, 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 Bi₂Sr₂CaCu₂O_{8+δ}. *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 Nd_{1.8}Sr_{0.2}NiO_{3.72}: A K₂NiF₄ - 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 δ 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). Ln = 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 $\text{Pr}_{2-y}\text{Sr}_y\text{CuO}_{4-\delta}$ SYSTEM. Electron Microscopy 1994. ICME-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 $\square\text{-Fe}_2\text{O}_3$ 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 $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_y$. *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 $\text{Pr}_{2-y}\text{Sr}_y\text{CuO}_{4-\delta}$ 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} ($0.22 \leq y \leq 0.40$). *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 $\text{Nd}_{2-x}\text{Sr}_x\text{NiO}_y$: 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 Sr_2RuO_4 -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 $\text{Sr}_{1-x}\text{Ca}_x\text{CuO}_2$ 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. Germei, 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 $\text{Pr}_{1.85}\text{Ce}_{0.15}\text{CuO}_{3.98}$ 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 $\text{Al}_2\text{O}_3/\text{PMMA}/\text{PLLA}$. *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 $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_{3-y}$, I: ($0 \leq y \leq 0.10$). *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 $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_{3-y}$, II: ($0.15 \leq y \leq 0.33$). *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 $\text{LaNiO}_{4+\delta}$ 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 PO_4^{3-} , HPO_4^{2-} AND H_3PO_4 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 -Al₂O₃ 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 -Fe₂O₃ 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. LaAlO₃ 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 SrTiO₃ 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 Sr_{0.6}Ca_{0.4}CuO₂. *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 La_xMn_yO_{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 CeO₂ 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. TiO₂-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 YBa₂Cu₃O₇ - Y₂ BaCuO₅ 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 SnO₂-CuO MIXTURE PHASE OBTAINED BY PYROLYSIS 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 Pr_{1.85} Ce_{0.15} CuO_{4+δ}. Mater. Res. 12(10), 2526-2532. (1997). A.
260. M. Vallet-Regí. INTRODUCTION TO THE WORLD OF BIOMATERIALS. Anales de Quím. Inter. I 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 YBa₂Cu₃O_{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 YBa₂Cu₃O_{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 Nd_{2-x}Sr_xNiO₄ AND REDUCED Nd_{2-x}Sr_xNiO_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 Ca_nFe₂Mn_{n-2}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 C₆₀ 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 Sr_{0.5}Ca_{0.5}CuO₂. 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 CaO.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 $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_{3-\eta}$ ($0 \leq \eta \leq 0.5$). 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 $\text{Nb}_2\text{O}_5/\text{V}_2\text{O}_5$ 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 SnO_2 AND Pt/SnO_2 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 P_2O_5 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. 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 $CaO.MgO.SiO_2.P_2O_5$ 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 $SiO_2-CaO-P_2O_5-MgO$ 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 $CaO-SiO_2$ 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. Mn^{4+} 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 $3CaO.P_2O_5-CaO-SiO_2-CaO.MgO.2SiO_2$ 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. Martínez, 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. 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 Ramila, 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 $3\text{CaO}\cdot\text{P}_2\text{O}_5\cdot\text{CaO}\cdot\text{SiO}_2\cdot\text{CaO}\cdot\text{MgO}\cdot 2\text{SiO}_2$ 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 $\text{CaO}\cdot\text{P}_2\text{O}_5\cdot\text{SiO}_2$ 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 LaNiO_3 -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-SnO₂ 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: SrAl_{1.7}B_{0.3}O₄. *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 (Fe, Ca) SiO₃ 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 SiO₂-CaO-P₂O₅ SOL-GEL GLASSES. *Chem. Mater.* 14, 1515-1522 (2002). A.
351. L. Meseguer-Olmo, MJ. 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. SiO₂-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 UIT 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 Medica.* 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 $\text{SiO}_2\text{-CaO-P}_2\text{O}_5$ 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 SiO_2 -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 $\text{SrAl}_2\text{O}_4: \text{Eu}^{2+}, \text{R}^{3+}$ (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-Lahiguera, 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 SiO_2 -CaO- P_2O_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-SiO₂ 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% Mn⁴⁺ 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-SiO₂ 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. Rodriguez-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 SiO₂-CaO-P₂O₅ 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 CULTUIRE ON NaOH-TREATED POLY(E-

- 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 CaO-SiO₂-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 MnLa_{0.97}Ca_{0.03}MnO₃. *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-Regi. 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 (ε-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 Eng.* 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 LaMnO_3 . *J. Appl. Phys.* 99, 08A702 (2006).
432. S. Padilla, J. Román, S. Sánchez-Salcedo and M. Vallet-Regí. HYDROXYAPATITE/SIO₂-CAO-P₂O₅ 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. Ferey. METAL-ORGANIC-FRAMEWORKS AS EFFICIENT MATERIALS FOR DRUG DELIVERY. *Angew. Chem. Int. Ed.* 45, 5974-5998 (2006).
447. P. Horcajada, A. Rámila, G. Ferey 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. *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).
51. 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 $La_4Mn_4O_{11}$. *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 $CaO-SiO_2$ 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-Areán, 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. Ruíz-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 Eng.* 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 THE 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, A. Martín, M. Vallet-Regí, M. Clavel-Sainz, F. Lopez-Prats, C. Meseguer-Ortiz. IN VITRO BEHAVIOUR OF ADULT MESENCHYMAL STEM CELLS SEEDS 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 CONTROLLED 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 Eng.* 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 OSTEOBLAST 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 SiO₂ 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 MESENCHYNAL 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-Regi, 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 SiO₂-CAO-P₂O₅ 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-Regí, 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 (³¹P, ²⁹SI, ²³NA, ¹³C) 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 BISPSPHONATE 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. Shruti, 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.I Arcos, M. Vallet-Regí and Mattias 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. Vadiillo, 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, CG. Trejo, E. Gómez-Barrena, M. Manzano, JC. Doadrio, AJ. 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-Regi. 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-Regi. IN VIVO OSTEOINTEGRATION OF THREE-DIMENSIONAL CROSSLINKED GELATIN-COATED HYDROXYAPATITE FOAMS. *Acta Biomaterialia.* 8, 3777-3783 (2012).
580. M. Vallet-Regi. 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. Esplandiu, 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-Regi. 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-Regí, 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 Adv.* 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. *Micropor. 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. Shruti, 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).
24. 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. Inter.* 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 TAPHYLOCOCCUS 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. Martinez, A. Baeza, M.A. Rodriguez, 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 FORM 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-Regi, 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. A 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. Matesanz, 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. Martinez, 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. 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.* 4, 4356-4365 (2016).
660. M. Vallet-Regí, A. Salinas, D. Arcos. TAILORING THE STRUCTURE OF BIOACTIVE GLASSES: FROM THE NANOSCALE TO MACROPOROUS SCAFFOLDS. *Int. J. Appl. Glass Sci.* 7 [2] 195-205 (2016).
661. L. Casarrubios, M. Concepción, S. Sánchez, D. Arcos, M. Vallet-Regí, M.T. Portolés. NANOCRYSTALLINITY EFFECTS ON OSTEOBLAST AND OSTEOCLAST RESPONSE TO SILICON SUBSTITUTED HYDROXYAPATITE. *J. Colloid Interf. Sci.* 482, 112–120 (2016).
662. 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.* 120, 4961–4974 (2016).
663. M. J. Feito, M. C. Serrano, M. Oñaderra, M. C. Matesanz, S. Sánchez-Salcedo, D. Arcos, M. Vallet-Regí and M. T. Portolés. EFFECTS OF IMMOBILIZED VEGF ON ENDOTHELIAL PROGENITOR CELLS CULTURED ON SILICON SUBSTITUTED AND NANOCRYSTALLINE HYDROXYAPATITES. *RSC Adv.* 6, 92586-92595 (2016).
664. M. Vila, A. García, A. Girotti, M. Alonso, J. C. Rodríguez-Cabello, . González-Vázquez, J.A. Planell, E. Engel, J. Buján, N. García-Honduvilla, M. Vallet-Regí. 3D SILICON DOPED HYDROXYAPATITE SCAFFOLDS DECORATED WITH ELASTIN-LIKE RECOMBINAMERS FOR BONE REGENERATIVE MEDICINE. *Acta Biomaterialia.* 45, 349-356 (2016).
665. I. Izquierdo, M. Colilla, M. Vallet-Regí. ZWITTERIONIC CERAMICS FOR BIOMEDICAL APPLICATIONS. *Acta Biomaterialia* 40, 201–211 (2016).
666. 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.* 104^a, 2060-2070 (2016).

667. N. Gómez, S. Sánchez, I. Izquierdo, D. Arcos, M. Vallet-Regí. IN VITRO COLONIZATION OF STRATIFIED BIOACTIVE SCAFFOLDS BY PRE-OSTEOBLAST CELLS. *Acta Biomaterialia*. 44, 73-84 (2016).
668. 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.* , 104B,1210-1219 (2016).
669. A. Aguilar, J.C. Doadrio, C. Pérez-Jorge, M. Manzano, M. Vallet-Regí, J. Esteban. ANTIBACTERIAL EFFECT OF ANTIBIOTIC LOADED SBA-15 ON BIOFILM FORMATION BY STAPHYLOCOCCUS AUREUS AND STAPHYLOCOCCUS EPIDERMIDIS. *J. Antibiot.* 70, 259-263 (2017).
670. M. Gisbert, D. Lozano, M. Vallet-Regí, M. Manzano. SELF-IMMOLATIVE POLYMERS AS NOVEL PH-RESPONSIVE GATE KEEPERS FOR DRUG DELIVERY. *RSC Adv.* 7, 132-136 (2017).
671. R.P.García, I. Izquierdo, M. Vallet-Regí. 3D SCAFFOLD WITH EFFECTIVE MULTIDRUG SEQUENTIAL RELEASE AGAINST BACTERIA BIOFILM. *Acta Biomaterialia*. 49, 113-126 (2017).
672. M. Gisbert, M. Manzano and M. Vallet-Regí. pH-RESPONSIVE MESOPOROUS SILICA AND CARBON NANOPARTICLES FOR DRUG DELIVERY. *Bioengineering*. 4, 3 (2017).
673. R. Castillo, M. Colilla, M. Vallet-Regí. ADVANCES IN MESOPOROUS SILICA-BASED NANOCARRIERS FOR CO-DELIVERY AND COMBINATION THERAPY AGAINST CANCER. *Expert Opin. Drug Del.* 14 (2) 229-243 (2017).
674. R. Castillo, A. Baeza and M. Vallet-Regí. RECENT APPLICATIONS OF THE COMBINATION OF MESOPOROUS SILICA NANOPARTICLES WITH NUCLEIC ACIDS: DEVELOPMENT OF BIORESPONSIVE DEVICES, CARRIERS AND SENSORS. *Biomater. Sci.*, 5, 353-377 (2017).
675. F. Nador, E. Guisasola, A. Baeza, M.A. Moreno, M. Vallet-Reg and D. Ruiz. SYNTHESIS OF POLYDOPAMINE-LIKE NANOCAPSULES VIA REMOVAL OF A SACRIFICIAL MESOPOROUS SILICA TEMPLATE WITH WATER. *Chem. Eur. J.* 23, 2753-2758 (2017).
676. A.L. Doadrio, J.M. Sánchez, J.C. Doadrio, A. Salinas, M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES AS A NEW CARRIER METHODOLOGY IN THE CONTROLLED RELEASE OF THE ACTIVE COMPONENTS IN A POLYPILL. *Eur. J. Pharm. Sci.* 97, 1-8 (2017).
677. A. Philippart, N. Gómez, D. Arcos, A. Salinas, E. Boccardi, M.Vallet-Regí, A. Boccaccini. NOVEL ION-DOPED MESOPOROUS GLASSES FOR BONE TISSUE ENGINEERING: STUDY OF THEIR STRUCTURAL CHARACTERISTICS INFLUENCED BY THE PRESENCE OF PHOSPHOROUS OXIDE. *J. Non-Cryst Solids*. 455, 90-97 (2017).
678. M. Vallet-Regí, M. Manzano, L. Rodríguez-Mañas, M. Checa-López, M. Aapro, L. Balducci. MANAGEMENT OF CANCER IN THE OLDER AGE PERSON: AN APPROACH TO COMPLEX MEDICAL DECISIONS. *Oncologist*. 22(3), 335-342 (2017).
679. K.S. Mohammad, T.A. Guise, M. Manzano, M. Vallet-Regí. MECHANISMS OF MUSCLE WEAKNESS ASSOCIATED WITH BONE METASTASES. *Int. J. Cancer Oncol.* 4(1), 1-5 (2017).
680. M. Vallet-Regí, M. Manzano L. Rodríguez-Mañas, M. Ramírez, A. Carrato, P.L. Ortiz and L. Balducci. SECONDARY PREVENTION OF CANCER IN THE OLDER INDIVIDUAL. *Trends in Geriatric Healthcare*. 1(1), 14-22 (2017).

681. P. Mora-Raimundo, M. Manzano and M. Vallet-Regí. NANOPARTICLES FOR THE TREATMENT OF OSTEOPOROSIS. *AIMS Bioengineering*. 4(2), 259-274 (2017).
682. A. Baeza, R. Castillo, A. Torres-Pardo, J.M Gonzalez-Calbet and M. Vallet-Regí. ELECTRON MICROSCOPY FOR INORGANIC-TYPE DRUG DELIVERY NANOCARRIERS FOR ANTITUMORAL APPLICATIONS: WHAT IS POSSIBLE TO SEE? *J. Mater. Chem. B*. 5, 2714-2725 (2017).
683. J.L. Paris, P. de la Torre, M.V. Cabañas, M. Manzano, M. Grau, A.I. Flores, M. Vallet-Regí. VECTORIZATION OF ULTRASOUND-RESPONSIVE NANOPARTICLES IN PLACENTAL MESENCHYMAL STEM CELLS FOR CANCER THERAPY. *Nanoscale*, 9, 5528-5537 (2017).
684. J.L. Paris, M. Colilla, I. Izquierdo, M. Manzano, M. Vallet-Regí. TUNING MESOPOROUS SILICA DISSOLUTION IN PHYSIOLOGICAL ENVIRONMENTS: A REVIEW. *J. Mater. Sci.* 52, 8761–8771 (2017).
685. A. Bari, N. Bloise, S. Fiorilli, G. Novajra, M. Vallet-Regí, G. Bruni, A. Torres, J.M. González-Calbet, L. Visai, C. Vitale. COPPER-CONTAINING MESOPOROUS BIOACTIVE GLASS NANOPARTICLES AS MULTIFUNCTIONAL AGENT FOR BONE REGENERATION. *Acta Biomaterialia*. 55, 493–504 (2017).
686. G. Villaverde, V. Nairi, A. Baeza, M. Vallet-Regí. DOUBLE SEQUENTIAL ENCRYPTED TARGETING SEQUENCE: A NEW CONCEPT FOR BONE CANCER TREATMENT. *Chem. Eur. J.* 23, 7174–7179 (2017).
687. J.J. Aguilera, A.L. Doardrio, A. Conde, M.A. Arenas, J.J. de Damborenea, C. Pérez, M. Vallet-Regí, J. Esteban. ANTIBIOTIC RELEASE FROM FLUORIDE-TIO₂ NANOSTRUCTURED ANODIC LAYERS ON Ti6Al4V ALLOY. *Bone Joint J.* 99, 5-5 (2017).
688. J. Simmchen, A. Baeza, A.M. Lopez, M.M. Stanton, M. Vallet-Regí, D. Ruiz and S. Sánchez. DYNAMICS OF NOVEL PHOTOACTIVE AGCL MICROSTARS AND THEIR ENVIRONMENTAL APPLICATIONS. *Chem. Nano. Mat.* 3, 65-71 (2017).
689. S. Sánchez, A. García, M. Vallet-Regí. PREVENTION OF BACTERIAL ADHESION TO ZWITTERIONIC BIOCOMPATIBLE MESOPOROUS GLASSES. *Acta Biomaterialia* 57, 472–486 (2017).
690. R. Mathew, C. Turdean, Y. Yu, B. Svensson, I. Izquierdo, A. García, D. Arcos, M. Vallet-Regí, and M. Edén. PROTON ENVIRONMENTS IN BIOMIMETIC CALCIUM PHOSPHATES FORMED FROM MESOPOROUS BIOACTIVE CAO–SIO₂–P₂O₅ GLASSES IN VITRO: INSIGHTS FROM SOLID-STATE NMR. *J. Phys. Chem. C*, 121 (24), 13223-13238 (2017).
691. A.Y. Rwei, J.L. Paris, B. Wang, W. Wang, C.D. Axon, M. Vallet-Regí, R. Langer, D.S. Kohane. ULTRASOUND TRIGGERED LOCAL ANAESTHESIA. *Nat. Biomed. Eng.* 1 (8), 644–653 (2017).
692. V. López, M.R. Villegas, V. Rodríguez, G. Villaverde, D. Lozano, A. Baeza and M. Vallet-Regí. JANUS MESOPOROUS SILICA NANOPARTICLES FOR DUAL TARGETING OF TUMOR CELLS AND MITOCHONDRIA. *ACS Appl. Mater. Inter.* 9 (32), 26697-26706 (2017).
693. M. Maycas, M.T. Portolés, M.C. Matesanz, I. Buendía, J. Linares, M. J. Feito, D. Arcos, M. Vallet-Regí, L. Plotkin, P. Esbrit, A.R. Gortázar. HIGH GLUCOSE ALTERS THE SECRETOME OF MECHANICALLY STIMULATED OSTEOCYTE-LIKE CELLS AFFECTING OSTEOCLAST PRECURSOR RECRUITMENT AND DIFFERENTIATION. *J. Cell. Physiol.* 232, 3611–3621 (2017).

694. M. F. Villegas, L. Garcia-Uriostegui, O. Rodriguez, I. Izquierdo-Barba, A. J. Salinas, G. Toriz, M. Vallet-Regí, E. Delgado. LYSINE-GRAFTED MCM-41 SILICA AS AN ANTIBACTERIAL BIOMATERIAL. *Bioengineering*. 4, 80 (2017).
695. M. Martínez, D. Lozano, A. Baeza, M. Colilla and M. Vallet-Regí. A NOVEL VISIBLE LIGHT RESPONSIVE NANOSYSTEM FOR CANCER TREATMENT. *Nanoscale*. 9, 15967–15973 (2017).
696. L. Polo, N. Gómez-Cerezo, Elena, Aznar, J.L. Vivancos, F. Sancenón, D. Arcos, M. Vallet-Regí, R. Martinez. MOLECULAR GATES IN MESOPOROUS BIOACTIVE GLASSES FOR THE TREATMENT OF BONE TUMOURS AND INFECTION. *Acta Biomaterialia*. 50 114–126 (2017).
697. A. Baeza, D. Ruiz, M. Vallet-Regí. RECENT ADVANCES IN POROUS NANOPARTICLES FOR DRUG DELIVERY IN ANTITUMORAL APPLICATIONS: INORGANIC NANOPARTICLES AND NANOSCALE METAL-ORGANIC FRAMEWORKS. *Expert Opin. Drug Del.* 14, 783-796 (2017).
698. M. Vallet-Regí, M. Colilla, I. Izquierdo, M. Manzano. MESOPOROUS SILICA NANOPARTICLES FOR DRUG DELIVERY: CURRENT INSIGHTS. *Molecules*. 23, 47 (2018).
699. B. González, M. Colilla, J. Díez, D. Pedraza, M. Guembe, I. Izquierdo-Barba, M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES DECORATED WITH POLYCATIONIC DENDRIMERS FOR INFECTION TREATMENT. *Acta Biomaterialia*. 68, 261-271 (2018).
700. D. Pedraza, J. Díez, I. Izquierdo, M. Colilla, M. Vallet-Regí, AMINE-FUNCTIONALIZED MESOPOROUS SILICA NANOPARTICLES: A NEW NANOANTIBIOTIC FOR BONE INFECTION TREATMENT *Biomed. Glasses*. 4,1-12 (2018).
701. M. Martínez, D. Lozano, M. Colilla, M. Vallet-Regí. LECTIN-CONJUGATED PH-RESPONSIVE MESOPOROUS SILICA NANOPARTICLES FOR TARGETED BONE CANCER TREATMENT. *Acta Biomaterialia*. 65, 393-404 (2018).
702. S. Sánchez, G. Malavasi, A.J. Salinas, G. Lusvardi, L. Rigamonti, L. Menabue, M. Vallet-Regí. HIGHLY-BIOREACTIVE SILICA-BASED MESOPOROUS BIOACTIVE GLASSES ENRICHED WITH GALLIUM(III). *Materials*, 11, 367 (2018).
703. V. Nairi, S. Medda, M. Piludu, M.F. Casula, M. Vallet-Regí, M. Monduzzi, A. Salis. INTERACTION BETWEEN BOVINE SERUM ALBUMIN AND MESOPOROUS SILICA NANOPARTICLES FUNCTIONALIZED WITH BIOPOLYMERS. *Chem. Eng. J.* 340, 42-50 (2018).
704. S. Sánchez, M. Vallet-Regí, S. Allaf Fhanin, C.A. Glackin, J.I. Zink. MESOPOROUS CORE-SHELL SILICA NANOPARTICLES WITH ANTI-FOULING PROPERTIES FOR OVARIAN CANCER THERAPY. *Chem. Eng. J.* 340, 114-124 (2018).
705. M. Vallet-Regí, A. J. Salinas. ROLE OF THE SHORT DISTANCE ORDER IN THE GLASSES REACTIVITY. *Materials*. 11, 415 (2018).
706. M. Cicuéndez, J.C. Doadrio, A. Hernández, M.T. Portolés, I. Izquierdo-Barba, M. Vallet-Regí. MULTIFUNCTIONAL PH SENSITIVE 3D SCAFFOLDS FOR TREATMENT AND PREVENTION OF BONE INFECTION. *Acta Biomaterialia*. 65, 450-461 (2018).
707. J.L. Paris, P. Torre, M.V. Cabañas, M. Manzano, A.I. Flores, M. Vallet-Regí. MESENCHYMAL STEM CELLS FROM HUMAN PLACENTA AS NANOPARTICLE DELIVERY VECTORS. *Insights Stem Cells*. 4, (1), 1-2 (2018).

708. A. Baeza, M. Vallet-Regí. TARGETED MESOPOROUS SILICA NANOCARRIERS. *Curr. Drug Targets*. 19, (3) 213-224 (2018).
709. J.L. Paris, M. Manzano, M.V. Cabañas, M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES ENGINEERED FOR ULTRASOUND-INDUCED UPTAKE BY CANCER CELLS. *Nanoscale*. 10, 6402-6408 (2018).
710. M. Martínez-Carmona, Y. Gun'ko, María Vallet-Regí. ZnO NANOSTRUCTURES FOR DRUG DELIVERY AND THERANOSTIC APPLICATIONS. *Nanomaterials*. 8, 268 (2018).
711. M.R. Villegas, A. Baeza, M. Vallet Regí. NANOTECHNOLOGICAL STRATEGIES FOR PROTEIN DELIVERY. *Molecules*. 23, 1008 (2018).
712. M.R. Villegas, A. Baeza, A. Nouredine, P. Durfee, K. Butler, J. Agola, J.C. Brinker, M. Vallet Regí. MULTIFUNCTIONAL PROTOCELLS FOR ENHANCED PENETRATION IN 3D EXTRACELLULAR TUMORAL MATRICES. *Chem. Mater*. 30, 112-120 (2018).
713. J.L. Paris, C. Mannaris, M.V. Cabañas, R. Carlisle, M. Manzano M. Vallet-Regí, C.C. Coussios. ULTRASOUND-MEDIATED CAVITATION-ENHANCED EXTRAVASATION OF MESOPOROUS SILICA NANOPARTICLES FOR CONTROLLED-RELEASE DRUG DELIVERY. *Chem. Eng. J.*, 340, 2-8 (2018)
714. M. Gisbert, M. Manzano; M. Vallet-Regí. SELF-IMMOLATIVE CHEMISTRY IN NANOMEDICINE. *Chem. Eng. J.* 340, 24-31 (2018).
715. M. Vallet-Regí, A. Salinas, A. Baeza, M. Manzano. SMART NANOMATERIALS AND NANOSTRUCTURES FOR DIAGNOSTIC AND THERAPY. *Editorial of Chem. Eng. J.* 340, 1 (2018)
716. E. Guisasola, L. Asín, L. Beola, J.M. de la Fuente, A. Baeza, M. Vallet-Regí. BEYOND TRADITIONAL HYPERTHERMIA. IN VIVO CANCER TREATMENT WITH MAGNETIC-RESPONSIVE MESOPOROUS SILICA NANOCARRIERS. *ACS Appl. Mater. Interfaces*. 10, 12518-12525 (2018).
717. R. Castillo, D. Hernandez, S. Gomez, M. Vallet-Regí. REVERSIBLE NANOGATE SYSTEM FOR MESOPOROUS SILICA NANOPARTICLES BASED ON DIELS-ALDER ADDUCTS. *Chem. Eur. J.* 24, 6992-7001 (2018).
718. M. Cicuéndez, J. Flores, H. Oliveira, M.T. Portolés, M. Vallet-Regí, M. Vila, I. F. Duarte. METABOLOMIC RESPONSE OF OSTEOSARCOMA CELLS TO NANOGRAPHENE OXIDE-MEDIATED HYPERTHERMIA. *Mater. Sci. Eng. C*. 91, 340-348 (2018).
719. A. Baeza, M. Vallet Regí. NANOMOTORS FOR NUCLEIC ACID, PROTEINS, POLLUTANTS AND CELLS DETECTION. *Int. J. Mol. Sci.* 19, 1579 (2018).
720. N. Gómez, L. Casarrubios, I. Morales, M.J. Feito, M. Vallet-Regí, D. Arcos, M.T. Portolés. EFFECTS OF A MESOPOROUS BIOACTIVE GLASS ON OSTEOBLASTS, OSTEOCLASTS AND MACROPHAGES. *J. Colloid Interface Sci.* 528, 309-320 (2018).
721. G. Villaverde, S. Gómez, E. Guisasola, I. García, C. Hanske, L.M. Liz, A. Baeza, M. Vallet-Regí. TARGETED CHEMO-PHOTO THERMAL THERAPY: A NANOMEDICINE APPROXIMATION TO SELECTIVE MELANOMA TREATMENT. *Part. Part. Syst. Character.* 1800148 (2018).
722. E. Guisasola, A. Baeza, L. Asín, J.M. de la Fuente, M. Vallet-Regí. HEATING AT THE NANOSCALE THROUGH DRUG DELIVERY DEVICES. FABRICATION AND SYNERGIC EFFECTS IN CANCER TREATMENT WITH NANOPARTICLES. *Small Methods*. 1800007 (2018).

723. V. Nairi, S. Magnolia, M. Piludu, M. Nieddu, C.A. Caria, V. Sogos, M. Vallet-Regí, M. Monduzzi and A. Salis. MESOPOROUS SILICA NANOPARTICLES FUNCTIONALIZED WITH HYALURONIC ACID. EFFECT OF THE BIOPOLYMER CHAIN LENGTH ON CELL INTERNALIZATION. *Colloid Surface B: Biointerfaces* 168, 50–59 (2018).
724. J.L Paris, G. Villaverde, M.V. Cabañas, M. Manzano, M. Vallet-Regí. FROM PROOF-OF-CONCEPT MATERIAL TO PEGYLATED AND MODULARLY TARGETED ULTRASOUND-RESPONSIVE MESOPOROUS SILICA NANOPARTICLES. *J. Mater. Chem. B.* 6, 2785-2794 (2018).
725. A. Salinas, J.M. Blanco, O. Mersinlioglu, L. Casarrubios, D. Fernández; M.J. Feito, M.T. Portolés, B. González, M. Vallet-Regí. SYNTHESIS, CHARACTERIZATION AND BIOCOMPATIBILITY OF MESOLAMELLAR CALCIUM PHOSPHATE HYBRIDS PREPARED VIA ANIONIC SURFACTANT TEMPLATING. *ChemistrySelect.* 3, 6880-6891 (2018).
726. M.R. Villegas, A.Baeza, A. Usategui, P. Ortiz, J.L, de Pablos, M. Vallet Regí. COLLAGENASE NANOCAPSULES: A NOVEL APPROACH FOR FIBROSIS TREATMENT. *Acta Biomaterialia.* 74, 430-438 (2018).
727. M. Manzano, M. Vallet-Regí. MESOPOROUS SILICA NANOPARTICLES IN NANOMEDICINE APPLICATIONS. *J. Mater. Sci. Mater. Med.* 29 (5), 65 (2018).
728. N. Gómez, E. Verron, V. Montouillout, F. Fayon, P. Lagadec, J.M. Bouler, B. Bujoli, D. Arcos, M. Vallet-Regí. THE RESPONSE OF PRE-OSTEOBLASTS AND OSTEOCLASTS TO GALLIUM CONTAINING MESOPOROUS BIOACTIVE GLASSES. *Acta Biomaterialia.* 76, 333-343 (2018).
729. R. Perez, S. Sanchez Salcedo, D. Lozano, C. Heras, P. Esbrit, M. Vallet-Regí, A. Salinas. OSTEOGENIC EFFECT OF ZnO-MESOPOROUS GLASSES LOADED WITH OSTEOSTATIN. *Nanomaterials.* 8, 592 (2018).
730. J.J. Aguilera-Correa, A.L Doadrio, A. Conde, M.A. Arenas, J.J. de Damborenea, M. Vallet-Regí, J. Esteban. ANTIBIOTIC RELEASE FROM F-DOPED NANOTUBULAR OXIDE LAYER ON Ti6Al4V ALLOY TO DECREASE BACTERIAL VIABILITY. *J. Mater. Sci. Mater Med.* 29,118 (2018).
731. M.V. Cabañas, D. Lozano, A. Torres-Pardo, C. Sobrino, J. González-Calbet, D. Arcos, M. Vallet-Regí. FEATURES OF AMINOPROPYL MODIFIED MESOPOROUS SILICA NANOPARTICLES. IMPLICATIONS ON THE ACTIVE TARGETING CAPABILITY. *Mater. Chem. Phys.* 220, 260-269 (2018).
732. P. Balasubramanian, A. Salinas, S. Sanchez-Salcedo, R. Detsch, M. Vallet Regí, A. Boccaccini. INDUCTION OF VEGF SECRETION FROM BONE MARROW STROMAL CELL LINE (ST-2) BY THE DISSOLUTION PRODUCTS OF MESOPOROUS SILICA GLASS PARTICLES CONTAINING CUO AND SRO. *J. Non-cryst. Solids.* 500, 217-224 (2018).
733. M.R. Villegas, A. Baeza, M. Vallet Regí. PROTEOLYTIC ENZYMES AND CAVITATION AS STRATEGIES TO ENHANCED PENETRATION OF DRUG NANOCARRIERS. *Material Sci & Eng. Int. J.* 2(1): 00028 (2018).
734. M.A. Moreno, J. Sedó, E. Guisasola, A. Baeza, M. Vallet Regí, F. Nador, D. Ruiz. POLYDOPAMINE-LIKE COATINGS AS PAYLOAD GATEKEEPERS FOR MESOPOROUS SILICA NANOPARTICLES. *ACS Appl. Mater. Inter.* 10, 7661-7669 (2018).
735. L. Casarrubios, N. Gómez-Cerezo, M.J. Feito, M. Vallet-Regí, D. Arcos, M. Teresa Portolés. INCORPORATION AND EFFECTS OF MESOPOROUS SIO₂-CAO NANOSPHERES LOADED WITH IPRIFLAVONE ON OSTEOBLAST/OSTEOCLAST COCULTURES. *Eur. J. Pharm. Biopharm.* 133, 258-268 (2018).

736. L. Polo, N. Gómez-Cerezo A. García-Fernández, E. Aznar, J.L. Vivancos, D. Arcos, M. Vallet-Regí, R. Martínez-Máñez. MESOPOROUS BIOACTIVE GLASSES EQUIPPED WITH STIMULI-RESPONSIVE MOLECULAR GATES FOR THE CONTROLLED DELIVERY OF LEVOFLOXACIN AGAINST BACTERIA. *Chem. Eur. J.* 24, 1-9 (2018.).
737. R. Castillo, D. Lozano, M. Vallet-Regí. BUILDING BLOCK BASED CONSTRUCTION OF MEMBRANE-ORGANELLE DOUBLE TARGETED NANOSYSTEM FOR TWO-DRUG DELIVERY. *Bioconjug. Chem.* 29 (11), 3677-3685 (2018).
738. M. Colilla, I. Izquierdo, M. Vallet-Regí. THE ROLE OF ZWITTERIONIC MATERIALS IN THE FIGHT AGAINST PROTEINS AND BACTERIA. *Medicines.* 5, 125 (2018).
739. M. Martínez-Carmona, Y. Gun'ko, M. Vallet-Regí. MESOPOROUS SILICA MATERIALS AS DRUG DELIVERY: "THE NIGHTMARE" OF BACTERIAL INFECTION. *Pharmaceutics.* 10, 279 (2018).
740. N. García-Honduvilla, M.A. Ortega, A. Coca, C. Trejo, J. Román, J. Peña, M.V. Cabañas, M. Vallet-Regí, J. Bujan. IMPROVED CONNECTIVE INTEGRATION OF A DEGRADABLE 3D-NANO-APATITE/AGAROSE SCAFFOLD SUBCUTANEOUSLY IMPLANTED IN A RAT MODEL. *J. Biomater. Appl.* 33 741-752 (2018).
741. I. Izquierdo, L. Santos, J. Becerra, M.J. Feito, D. Fernández, M.C. Serrano, I. Díaz, B. Fernández, S. Enciso, F.M. Sánchez, D. Monopoli, H. Afonso, M. T. Portolés, D. Arcos, M. Vallet-Regí. SYNERGISTIC EFFECT OF SI-HYDROXYAPATITE COATING AND VEGF ADSORPTION ON Ti6Al4V-ELI SCAFFOLDS FOR BONE REGENERATION IN AN OSTEOPOROTIC BONE ENVIRONMENT.. *Acta Biomaterialia.* 83, 456-466 (2019).
742. J.L. Paris, P. de la Torre, M. V. Cabañas, M. Manzano, A.I. Flores, M. Vallet-Regí. SUICIDE-GENE TRANSFECTION OF TUMOR-TROPIC PLACENTAL STEM CELLS EMPLOYING ULTRASOUND-RESPONSIVE NANOPARTICLES. *Acta Biomaterialia.* 83, 372-378 (2019).
743. N. Encinas, M. Angulo, C. Astorga, I. Izquierdo, M. Colilla, M. Vallet-Regí. MIXED-CHARGE PSEUDO-ZWITTERIONIC MESOPOROUS SILICA NANOPARTICLES WITH LOW-FOULING AND REDUCED CELL UPTAKE PROPERTIES. *Acta Biomaterialia.* 84, 317-327 (2019).
744. G. Villaverde, A. Alfranca, A. Gonzalez, G.J. Melen, R. Castillo, M. Ramirez, A. Baeza, M. Vallet-Regí. MOLECULAR SCAFFOLDS AS DOUBLE TARGETING AGENTS FOR THE DIAGNOSIS AND TREATMENT OF NEUROBLASTOMA. *Angew. Chem. Int. Ed.* DOI: 10.1002/anie.201811691. En Prensa.
745. M. Vallet-Regí. BIOCERAMICS: FROM BONE SUBSTITUTES TO NANOPARTICLES FOR DRUG DELIVERY. IUPAC International Union of Pure and Applied Chemistry. En Prensa.