

PERSONAL INFORMATION **Michele Iafisco**

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Research unique identifiers: ORCID: 0000-0002-7813-8347; Scopus Author ID: 19336938800; ResearcherID: B-4597-2010

WORK EXPERIENCE

- 2016-present **Confirmed Researcher at the Institute of Science and Technology for Ceramics (ISTEC) of Faenza (RA)**
National Research Council (CNR), Italy
- 2013-present **Non-permanent Researcher at the Institute of Science and Technology for Ceramics (ISTEC) of Faenza (RA)**
National Research Council (CNR), Italy
- 2012-2013 **Research fellow at the Department of Anatomy, Pharmacology and Forensic Medicine**
University of Parma, Italy
- 2009-2013 **Post-doc researcher at the Department of Medical Sciences**
University of Eastern Piedmont "A. Avogadro" of Novara, Italy
- 2006-2008 **Ph.D. student at the Department of Chemistry "G. Ciamician"**
University of Bologna, Italy

EDUCATION AND TRAINING

- 2013 **Italian national scientific qualification as associate professor on Fundamentals of Chemical Sciences and Inorganic Systems (Code 03/B1) (Abilitazione Scientifica Nazionale 2012, ID 22368, registered on 19/10/2012)**
- 2009 **Doctor of Philosophy, Ph.D. in Chemical Science at University of Bologna (date 27/04/2009) (Winner of a Ph.D. grant from University of Bologna)**
- 2006 **National qualification to pursue professional works as chemist at University of Bologna**
- 2005 **M. Sc. in Chemistry at University of Bologna (date 14/07/2005) (Finale vote: 110/110)**

PERSONAL SKILLS

Mother tongue(s) **Italian**

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Excellent	Excellent	Excellent	Excellent	Excellent
Spanish	Good	Good	Good	Good	Good

PRIZES AND AWARDS

- 2015 **Winner of the prize "Ricercaamente 2014" for the best research activity of most promising young researcher "under 35" at the National Research Council of Italy in the field "Chemical Sciences and Materials Technology". The award was sponsored by the CNR and Accademia Nazionale dei Lincei.**
- 2015 **IUPAC-2015 Young Chemist Travel Award**

2013 Best Research Idea for the Market - International Conference MiMe - Materials in Medicine, Faenza, October 8-11, 2013

PARTICIPATION TO NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

2017-2020	Eu project CUPIDO "Cardio Ultraefficient nanoParticles for Inhalation of Drug prOducts" Project ID: 720834 H2020-NMBP-2016-two-stage	WP leader
2013-2016	EU project NANOREG "A common European approach to the regulatory testing of Manufactured Nanomaterials" FP7-NMP-2012-LARGE-6-310584	Key Personnel
2012-2015	EU project SMILEY "Smart nanostructured devices hierarchically assembled by biomineralization processes" FP7-NMP-2012-SMALL-6-310637	Key Personnel
2015	Project "PEEK bone implants coated with biomimetic nanostructured hydroxyapatite for osteoporotic patients" funded by "Fondazione Del Monte di Bologna e Ravenna" (Italy)	Activity leader
2012-2014	Flagship projects PNR-CNR Aging Program 2012-2014	Key Personnel
2010-2014	COST Action TD1003 "Bio-inspired nanotechnologies: from concepts to applications".	Key Personnel
2011-2013	Flagship project PNR-CNR NanoMax 2011-2013, subproject "Face up Cardiac Hypertrophy via microRNA Carried by Electrically Charged Nanoparticles -miRnano-"	Activity leader
2012-2013	Galileo Project, Scientific Cooperation between Italy and France, Project G12-3 "Multifunctional nanocrystalline apatites for cancer therapeutic applications"	Activity leader
2010-2012	FIRB 2010 Project n. RBAP10MLK7 "Scaffolds for skeletal tissue regeneration: preclinical evaluation of biocompatibility and effectiveness"	Key Personnel
2008-2012	COST Action MP0701 "Composites with novel functional and structural properties by nanoscale materials"	Key Personnel
2010-2011	Joint research project between Japan and Italy for the years 2010-2011 "Preparation and properties of drug-loaded nano-slurry of hydroxyapatite"	Activity leader
2009-2011	Ricerca Sanitaria Finalizzata Regione Piemonte 2009 "Multifunctional nanoparticles for the cancer therapy: studies in vitro and in vivo"	Principal Investigator
2009-2010	Spanish-Italian Integrated Action (IT2009-00028) "Multifunctional drug-loaded antibody-targeted inorganic nanoparticles for biomedical use"	Activity leader
2006-2008	National Italian Project PRIN 2006 n. 2006032335 "Chemical-physical characterization of the interface of silica xerogels and apatite nanocrystals with biomolecules and biological tissue".	Key Personnel

PARTICIPATION TO INDUSTRIAL PROJECTS

2016-2019	New formulations for the development of dental products based on biomimetic calcium phosphate micro-nanoparticles (Company: Curasept a.d.s. s.r.l.) (Protocol CNR ISTE N. 0001434 date 09/05/2016)	Principal Investigator
2016	Industrial scale-up of the process to obtain amorphous calcium phosphate doped with fluoride base materials (Company: Kalichem Italia s.p.a.) (Protocol CNR ISTE N. 0000306 date 11/02/2016)	Principal Investigator
2015-2016	Scientific consultation for the distribution of a new product based on calcium phosphate for dental applications (Company: Curaden Healthcare s.p.a.) (Protocol CNR ISTE N. 0002630 date 02/12/2015)	Activity leader

RESEARCH EXPERIENCES ABROAD

January 2014 to February 2014 Visiting scientist at the Institute of Nuclear Chemistry, Johannes-Gutenberg-

August 2012 to September 2012	University of Mainz (Mainz, Germany). Adviser Prof. Frank Roesch Visiting scientist at the Laboratorio de Estudios Cristalográficos (LEC) IACT (CSIC-UGR) (Granada, Spain). Adviser Dr. Jaime Gomez-Morales
October 2010 to November 2010	Visiting Scientist at the Department of Periodontology and Biomaterials, Radboud University Nijmegen Medical Center (Nijmegen, The Netherlands). Adviser Prof. John Jansen
July 2010 to September 2010	Visiting scientist at the Laboratorio de Estudios Cristalográficos (LEC) IACT (CSIC-UGR) (Granada, Spain). Adviser Dr. Jaime Gomez-Morales
September 2009 to October 2009	Visiting scientist at the Laboratorio de Estudios Cristalográficos (LEC) IACT (CSIC-UGR) (Granada, Spain). Adviser Dr. Jaime Gomez-Morales
May 2008 to July 2008	Visiting scientist at the Laboratorio de Estudios Cristalográficos (LEC) IACT (CSIC-UGR) (Granada, Spain). Adviser Dr. Jaime Gomez-Morales
August 2007 to September 2007	Visiting scientist at Eindhoven University of Technology Soft Matter Cryo-TEM research unit (Eindhoven, The Netherlands). Adviser Dr. Nico A.J.M. Sommerdijk
May 2007 to July 2007	Visiting scientist at the Laboratorio de Estudios Cristalográficos (LEC) IACT (CSIC-UGR) (Granada, Spain). Adviser Dr. Jaime Gomez-Morales

EDITORIAL ACTIVITIES

2017 to present	Editorial board member of Current Applied Polymer Science (Bentham Science Publishers)
2016 to present	Editorial board member of Current Smart Materials (Bentham Science Publishers)
2015 to present	Reviewers board member of Journal of Experimental Spectroscopic Techniques (VIBGYOR Online Publishers)
2015 to present	Editorial board member of Peertechz Journal of Biomedical Engineering (PeerTechz.com)
2015 to present	Editorial board member World Journal of Engineering Research and Technology
2015 to present	Editorial board member of Musculoskeletal Regeneration (Smart Science & Technology)
2015 to present	Editor in chief of Advances in Chemical and Biological Engineering (Advancements in Science)
2015 to present	Editorial board member of Advances in Materials Science and Engineering (Hindawi Publishing Corporation)
2014	Editor of the book "Apatite: Synthesis, Structural Characterization and Biomedical Applications" (Nova Science Publisher), ISBN: 978-1-63321-500-9
2014	Guest editor of the special issue of the "MiMe International Conference on Materials in Medicine" in Journal of Materials Science: Materials in Medicine, Volume 25, Issue 10, October 2014
2013 to present	Editorial board member of Chemistry International (International Scientific Organization)
2012 to present	Editorial board member of Crystal Structure Theory and Applications (Scientific Research Publishing)
2012 to present	Editorial board member of Analytical Chemistry Insights (Libertas Academica Ltd)

MAJOR COLLABORATIONS

Dr. Daniele Catalucci	Institute of Genetic and Biomedical Research (IRGB-CNR), Rozzano (MI), Italy
Dr. Christophe Drouet	CIRIMAT Carnot Institute-CNRS, Toulouse, France
Prof. Giuseppe Falini	University of Bologna, Bologna, Italy
Dr. Jaime Gomez-Morales	Laboratorio de Estudios Cristalográficos (LEC) IACT-CSIC-UGR, Granada, Spain
Prof. Oskar Hoffmann	University of Vienna, Vienna, Austria
Prof. John Jansen	Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands
Prof. Nico Margiotta	University of Bari, Bari, Italy
Prof. Gianmario Martra	University of Turin, Turin, Italy
Prof. Maria Prat	University of Eastern Piedmont "A. Avogadro", Novara, Italy
Prof. Frank Rosh	Institute of Nuclear Chemistry, Johannes-Gutenberg University, Mainz, Germany

Dr. Nico Sommerdijk Eindhoven University of Technology, Eindhoven, The Netherlands
Dr. Clara Piccirillo Escola Superior Biotecnologia, Universidade Católica Portuguesa, Porto, Portugal
Prof. Roland Kroger Univeristy of York, York, UK.

RESEARCH INTERESTS

His research interests include biomaterials, biomineralization, nanomedicine, calcium phosphates and bioceramics. Author of more than **70 papers** published in international peer-reviewed journals (**26** as first or corresponding author), **12 book chapters** and **3 international patents** (2 of them licensed). **H-index=26, total citation: more than 1740**, Source: Google Scholar (June 2017). He presented his researches in national and international conferences (some of them as plenary and invited lectures) and seminars in Italian and European research centres. **From 01/01/2016, he is scientific responsible of the Research Line on “Nanostructured materials for dental and maxillofacial applications” at ISTEC-CNR, Project area DCM.A D003 / Nanomedicine.**

OTHER

He was the assistant supervisor of a Master degree (Laurea Magistralis) thesis in Chemistry at Alma Mater Studiorum, University of Bologna (Preparation of hybrid inorganic-organic hydroxyapatite-poly(L-lactic) acid microspheres for bone repairing applications, 2011, Candidate: Francesco Pedota) and 3 Bachelor degree (Laurea) thesis in Chemistry and Technologies for the Environment and Materials at Alma Mater Studiorum, University of Bologna (Synthesis and characterization of hydroxyapatite nanoparticles for drug delivery applications in nanomedicine, 2014, Candidate: Francesca Carella; Synthesis and characterization of hydroxyapatite and fluor-hydroxyapatite nanoparticles, 2016, Candidate: Simone Pezzi; Synthesis and characterization of amorphous calcium phosphate stabilized with citrate and doped with fluoride for dental applications, 2016 Candidate: Monica Remondini).

He was project evaluator for:

- i) Research Foundation – Flanders (FWO) (Belgium) (1 proposal, call 2015, Lead Agency project with Slovenia)
- ii) National Science Centre (Narodowe Centrum Nauki – NCN) (Poland) (1 proposal, call 2015, Funding scheme OPUS)
- iii) COST (European Commission) (1 proposal on COST Open Call OC-2016-1 in the role of Independent External Expert)
- iv) External reviewer for the 'Diagnostics, Therapies, Applied Medical Technology and Public Health' panel of the ERC Starting Grant 2017 call.

He is referee for several international journals (i.e. Biomaterials, Acta Biomaterialia, CrystEngComm, Journal of Materials Chemistry B, Tissue Engineering, European Journal of Pharmaceutical Sciences, etc.) having high impact factors.

He is member of the Italian Crystallographic Association and of the European Society of Biomaterials.

He was involved in the organization of “Incontro di Spettroscopia Analitica, Rimini, Italy, June 16-18, 2010” and “MiMe International Conference on Materials in Medicine, Faenza (RA), Italy, October 8-11, 2013”.

He was member of the scientific committee of the congress ANM2015, 6th international conference on Advanced Nanomaterials, Aveiro, Portugal, July 20-22. (<http://www.anm2015.com>)

He was member of the Jury for the Young Researcher Competition at “MiMe International Conference on Materials in Medicine, Faenza (RA), Italy, October 8-11, 2013” and member of Jury for the Best Poster Competition at “New Frontiers Symposium. Regenerative Medicine, Nijmegen, The Netherlands, October 16-17, 2014”.

He was member of the commission for the evaluation of four annual research fellows for early stage researchers at ISTEC-CNR having the topics: “Synthesis and characterization of biomimetic hydroxyapatites for the development of bioactive surfaces” (Announcement CNR-ISTEC n. 073.14.03.04 date 28/10/2014, Protocol CNR ISTEC N. 0002937 date 03/12/2014), “Design and development of bio-hybrid composite materials and nanostructured multifunctional systems for regenerative medicine and theranostic” (Announcement CNR-ISTEC n. 073.15.03.01,

date 30/03/2015, Protocol CNR ISTECON N. 0001108 date 06/05/2015) and “Development of ceramic materials with high bioactivity for regenerative medicine” (Announcement CNR-ISTECON n. 073.17.03.01 date 10/01/2017)

Author and scientific responsible of 2 technical reports at ISTECON-CNR (Protocol CNR ISTECON n. 0001026 date 08/04/2016; Protocol CNR ISTECON n. 0002647 date 02/12/2015).

In December 2016 he was appointed as permanent researcher at National Research Council winning the competition n. 368.16 RIC – Research Area Advanced Materials. First place, score 95/100.

PAPERS ON INTERNATIONAL
JOURNALS (PEER REVIEWED)

- 2017 Bisphosphonate - Functionalized Imaging Agents, Anti - Tumor Agents and Nanocarriers for Treatment of Bone Cancer. Robin A Nadar, Nicola Margiotta, **Michele lafisco**, Jeroen JJP van den Beucken, Otto C Boerman, Sander CG Leeuwenburgh. *Advanced Healthcare Materials*, 6 (8) 1601119. **IF 5.760**
- 2017 Luminescent calcium phosphate bioceramics doped with europium derived from fish industry byproducts. Clara Piccirillo, Alessio Adamiano, David M Tobaldi, Marco Montalti, Jeannette Manzi, Paula M Lima Castro, Silvia Panseri, Monica Montesi, Simone Sprio, Anna Tampieri, **Michele lafisco**. *Journal of the American Ceramic Society*, in press. **IF 2.841**
- 2017 Strontium doped calcium phosphate coatings on poly (etheretherketone)(PEEK) by pulsed electron deposition. Michele Bianchi, Lorenzo Degli Esposti, Alberto Ballardini, Fabiola Liscio, Matteo Berni, Alessandro Gambardella, Sander CG Leeuwenburgh, Simone Sprio, Anna Tampieri, **Michele lafisco**. *Surface and Coatings Technology*, 319, 191-199. **IF 2.589**
- 2017 Fe-Doping-Induced Magnetism in Nano-Hydroxyapatites. Vincenzo Iannotti, Alessio Adamiano, Giovanni Ausanio, Luciano Lanotte, Giuliana Aquilanti, John Michael David Coey, Marco Lantieri, Gabriele Spina, Maria Fittipaldi, George Margaris, Kalliopi Trohidou, Simone Sprio, Monica Montesi, Silvia Panseri, Monica Sandri, **Michele lafisco**, Anna Tampieri. *Inorganic Chemistry*, 56 (8), 4446-4458. **IF 4.857**
- 2017 Polyester fibers can be rendered calcium phosphate - binding by surface functionalization with bisphosphonate groups. Alessandro Polini, Daniela Geta Petre, **Michele lafisco**, Sonia de Lacerda Schickert, Anna Tampieri, Jeroen van den Beucken, Sander CG Leeuwenburgh. *Journal of Biomedical Materials Research Part A*, 105 (8), 2335-2342. **IF 3.076**
- 2016 Dual-functionalisation of gelatine nanoparticles with an anticancer platinum (ii)-bisphosphonate complex and mineral-binding alendronate. Kambiz Farbod, Alessandra Curci, Mani Diba, Tatiana Zinkevich, Arno PM Kentgens, **Michele lafisco**, Nicola Margiotta, Sander CG Leeuwenburgh. *RSC Advances*, 6 (114) 113025-113037. **IF 3.289**
- 2016 Biomimetic mineralization of recombinant collagen type I derived protein to obtain hybrid matrices for bone regeneration. Gloria Belén Ramírez-Rodríguez, José Manuel Delgado-López, **Michele lafisco**, Monica Montesi, Monica Sandri, Simone Sprio, Anna Tampieri. *Journal of Structural Biology*, 192 (2) 138-146. **IF 2.570**
- 2016 Fabrication and Pilot In Vivo Study of a Collagen-BDDGE-Elastin Core-Shell Scaffold for Tendon Regeneration. Monica Sandri, Giuseppe Filardo, Elizaveta Kon, Silvia Panseri, Monica Montesi, **Michele lafisco**, Elisa Savini, Simone Sprio, Carla Cunha, Gianluca Giavaresi, Francesca Veronesi, Milena Fini, Luca Salvatore, Alessandro Sannino, Maurilio Marcacci, Anna Tampieri. *Frontiers in Bioengineering and Biotechnology*, 4:52. DOI: 10.3389/fbioe.2016.00052. **IF -**
- 2016 Controlled Release of Chemotherapeutic Platinum-bisphosphonate Complexes from Injectable Calcium Phosphate Cements. Kambiz Farbod, Kemal Sariibrahimoglu, Alessandra Curci, Astghik Hayrapetyan, Jan NW Hakvoort, Jeroen JJP van den Beucken, **Michele lafisco**, Nicola Margiotta, Sander CG Leeuwenburgh. *Tissue Engineering Part A*, 22(9-10), 788-800. **IF 3.892**
- 2016 Bio-inspired assembling/mineralization process as a flexible approach to develop new smart scaffolds for the regeneration of complex anatomical regions. Simone Sprio, Monica Sandri, **Michele lafisco**, Silvia Panseri, Alessio Adamiano, Monica Montesi, Elisabetta Campodoni, Anna Tampieri. *Journal of the European Ceramic Society*, 36 (12), 2857-67. **IF 2.933**
- 2016 Crystallization of citrate-stabilized amorphous calcium phosphate to nanocrystalline apatite: a surface-mediated transformation. Konstantinos Chatzipanagis, **Michele lafisco**, Teresa Roncal-Herrero, Matthew

- Bilton, Anna Tampieri, Roland Kröger, José Manuel Delgado-López. *CrystEngComm*, 18 (18), 3170-3. **IF 3.849**
- 2016 Bioinspired negatively charged calcium phosphate nanocarriers for cardiac delivery of microRNAs. Vittoria Di Mauro, **Michele lafisco**, Nicolò Salvarani, Marco Vacchiano, Pierluigi Carullo, Gloria Belén Ramírez-Rodríguez, Tatiana Patrício, Anna Tampieri, Michele Miragoli, Daniele Catalucci. *Nanomedicine*, 11(8), 891-906. **IF 4.889**
- 2016 Magnetic labelling of mesenchymal stem cells with iron-doped hydroxyapatite nanoparticles as tool for cell therapy. Silvia Panseri, Monica Montesi, Monica Sandri, **Michele lafisco**, Alessio Adamiano, Martina Ghetti, Giovanna Cenacchi, Anna Tampieri. *Journal of Biomedical Nanotechnology*, 12(5), 909-21. **IF 3.929**
- 2016 Superparamagnetic iron-doped nanocrystalline apatite as delivery system for doxorubicin. **Michele lafisco**, Christophe Drouet, Alessio Adamiano, Patricia Pascaud, Monica Montesi, Silvia Panseri, Stephanie Sarda, Anna Tampieri. *Journal of Materials Chemistry B*, 1(4), 57-70. **IF 4.872**
- 2016 Bio-inspired citrate-apatite nanocrystals doped with divalent transition metal ions. Francisco Javier Martínez-Casado, **Michele lafisco**, José Manuel Delgado-López, Carla Martínez-Benito, Catalina Ruiz-Perez, Donato Colangelo, Francesca Oltolina, Maria Prat, Jaime Gómez-Morales. *Crystal Growth & Design*, 16(1), 145-53. **IF 4.425**
- 2015 Tough and adhesive nanostructured calcium phosphate thin films deposited by the pulsed plasma deposition method. Marco Boi, Michele Bianchi, Alessandro Gambardella, Fabiola Liscio, Saulius Kaciulis, Andrea Visani, Marianna Barbalinardo, Francesco Valle, **Michele lafisco**, Lisa Lungaro, Silvia Milita, Massimiliano Cavallini, Maurilio Marcacci, Alessandro Russo. *RSC Advances*, 96(5), 78561-71. **IF 3.289**
- 2015 Coupling hydroxyapatite nanocrystals with lactoferrin as a promising strategy to fine regulate bone homeostasis. Monica Montesi, Silvia Panseri, **Michele lafisco**, Alessio Adamiano, Anna Tampieri. *PLoS ONE*, 10(7), e0132633. **IF 3.057**
- 2015 Synthesis and preliminary in vivo evaluation of well-dispersed biomimetic nanocrystalline apatites labeled with positron emission tomographic imaging agents. Benedikt Sandhöfer, Marian Meckel, José Manuel Delgado-López, Tatiana Patrício, Anna Tampieri, Frank Rösch, **Michele lafisco**. *ACS Applied Materials & Interfaces*, 7, 10623-33. **IF 7.145**
- 2015 A Step Toward Control of the Surface Structure of Biomimetic Hydroxyapatite Nanoparticles: Effect of Carboxylates on the {010} P-Rich/Ca-Rich Facets Ratio. Yuriy Sakhno, Pavlo Ivanchenko, **Michele lafisco**, Anna Tampieri, Gianmario Martra. *Journal of Physical Chemistry C*, 119, 5928-37. **IF 4.509**
- 2015 Hydroxyapatite nanocrystals functionalized with alendronate as bioactive components for bone implant coatings to decrease osteoclastic activity. Ruggero Bosco, **Michele lafisco**, Anna Tampieri, John A Jansen, Sander CG Leeuwenburgh, Jeroen JJP Van Den Beucken. *Applied Surface Science*, 328, 516-24. **IF 3.150**
- 2015 The growth mechanism of apatite nanocrystals assisted by citrate: relevance to bone biomineralization. **Michele lafisco**, Gloria Belén Ramírez-Rodríguez, Yuriy Sakhno, Anna Tampieri, Gianmario Martra, Jaime Gómez-Morales, José Manuel Delgado-López. *CrystEngComm*, 17(3), 507-11. **IF 3.849**
- 2015 Effect of hydroxyapatite nanocrystals functionalized with lactoferrin in osteogenic differentiation of mesenchymal stem cells. Monica Montesi, Silvia Panseri, **Michele lafisco**, Alessio Adamiano, Anna Tampieri. *Journal of Biomedical Materials Research Part A*, 103(1), 224-34. **IF 3.263**
- 2014 pH-responsive collagen fibrillogenesis in confined droplets induced by vapour diffusion. Gloria Belén Ramírez-Rodríguez, **Michele lafisco**, Anna Tampieri, Jaime Gómez-Morales, José Manuel Delgado-López. *Journal of Materials Science: Materials in Medicine*, 25(10), 2305-12. **IF 2.587**
- 2014 Growth on poly(L-lactic acid) porous scaffold preserves CD73 and CD90 immunophenotype markers of rat bone marrow mesenchymal stromal cells. Alessandra Zamparelli, Nicoletta Zini, Luca Cattini, Giulia Spaletta, Davide Dallatana, Elena Bassi, Fulvio Barbaro, **Michele lafisco**, Salvatore Mosca, Annapaola Parrilli, Milena Fini, Roberto Giardino, Monica Sandri, Simone Sprio, Anna Tampieri, Nadir M Maraldi, Roberto Toni. *Journal of Materials Science: Materials in Medicine*, 25(10), 2421-36. **IF 2.587**
- 2014 Magnetic Bioinspired Hybrid Nanostructured Collagen-Hydroxyapatite Scaffolds Supporting Cell Proliferation and Tuning Regenerative Process. Anna Tampieri, **Michele lafisco**, Monica Sandri, Silvia Panseri, Carla Cunha, Simone Sprio, Elisa Savini, Marc Uhlarz, Thomas Herrmannsdörfer. *ACS Applied Materials & Interfaces*, 6(18), 15697-707. **IF 6.723**
- 2014 Synergistic effects of bisphosphonate and calcium phosphate nanoparticles on peri-implant bone

- responses in osteoporotic rats. Hamdan S Alghamdi, Ruggero Bosco, Sanne K Both, **Michele lafisco**, Sander CG Leeuwenburgh, John A Jansen, Jeroen JJP van den Beucken *Biomaterials*, 35(21), 5482-90. **IF 8.557**
- 2014 Biomimetic magnesium-carbonate-apatite nanocrystals endowed with strontium ions as anti-osteoporotic trigger. **Michele lafisco**, Andrea Ruffini, Alessio Adamiano, Simone Sprio, Anna Tampieri. *Materials Science and Engineering C*, 35, 212-9. **IF 3.088**
- 2013 Surface receptor targeted biomimetic apatite nanocrystals for cancer therapy. **Michele lafisco**, José Manuel Delgado-Lopez, Elena Maria Varoni, Anna Tampieri, Lia Rimondini, Jaime Gomez-Morales, Maria Prat. *Small*, 9(22), 3834-44. **IF 7.514**
- 2013 pH-responsive delivery of doxorubicin from citrate-apatite nanocrystals with tailored carbonate content. Isaac Rodríguez-Ruiz, José Manuel Delgado-López, Miguel A Durán-Olivencia, Michele lafisco, Anna Tampieri, Donato Colangelo, Maria Prat, Jaime Gómez-Morales. *Langmuir*, 29(26), 8213-21. **IF 4.384**
- 2013 Magnetic bioactive and biodegradable hollow Fe-doped hydroxyapatite coated poly(L-lactic) acid microspheres. **Michele lafisco**, Monica Sandri, Silvia Panseri, José Manuel Delgado-López, Jaime Gómez-Morales, Anna Tampieri. *Chemistry of Materials*, 25(13), 2610-7. **IF 8.535**
- 2013 Bio-inspired citrate-functionalized apatite thin films crystallized on Ti-6Al-4V implants pre-coated with corrosion resistant layers. José Manuel Delgado-López, **Michele lafisco**, Isaac Rodríguez-Ruiz, Jaime Gómez-Morales. *Journal of Inorganic Biochemistry*, 127, 261-8. **IF 3.274**
- 2013 Electrospun collagen mimicking the reconstituted extracellular matrix improves osteoblastic differentiation onto titanium surfaces. **Michele lafisco**, Nadia Quirici, Ismaela Foltran, Lia Rimondini. *Journal of Nanoscience and Nanotechnology*, 13(7), 4720-6. **IF 1.339**
- 2013 Adsorption of alendronate onto biomimetic apatite nanocrystals to develop drug carrier coating for bone implants. Ruggero Bosco, **Michele lafisco**, Jeroen van den Beucken, Sander CG Leeuwenburgh, John A Jansen. *Key Engineering Materials*, 529-530(1), 475-9. **IF -**
- 2013 Progress on the preparation of nanocrystalline apatites and surface characterization: overview of fundamental and applied aspects. Jaime Gómez-Morales, **Michele lafisco**, José Manuel Delgado-López, Stéphanie Sarda, Christophe Drouet. *Progress in Crystal Growth and Characterization of Materials*, 59(1), 1-46. **IF 1.476**
- 2012 Preparation of core-shell poly(L-lactic) acid-nanocrystalline apatite hollow microspheres for bone repairing applications. **Michele lafisco**, Barbara Palazzo, Tomoko Ito, Makoto Otsuka, Mamoru Senna, José Manuel Delgado-Lopez, Jaime Gomez-Morales, Anna Tampieri, Maria Prat, Lia Rimondini. *Journal of Materials Science: Materials in Medicine*, 23(11), 2659-69. **IF 2.141. Highlighted in Global Medical Discovery on April 13, 2013 (<https://globalmedicaldiscovery.com>)**
- 2012 Silica xerogels and hydroxyapatite nanocrystals for the local delivery of platinum-bisphosphonate complexes in the treatment of bone tumors: A mini-review. **Michele lafisco**, Nicola Margiotta. *Journal of Inorganic Biochemistry*, 17, 237-24. **IF 3.197**
- 2012 Crystallization of bioinspired citrate-functionalized nanoapatite with tailored carbonate content. José Manuel Delgado-López, **Michele lafisco**, Isaac Rodríguez, Anna Tampieri, María Prat, Jaime Gómez-Morales. *Acta Biomaterialia*, 8(9), 3491-9. **IF 5.093**
- 2012 Electrospun nanostructured fibers of collagen-biomimetic apatite on titanium alloy. **Michele lafisco**, Ismaela Foltran, Simona Sabbatini, Giorgio Tosi, Norberto Roveri. *Bioinorganic Chemistry and Applications*, 2012, No pp. given. **IF 1.165**
- 2012 A combined additive layer manufacturing/indirect replication method to prototype 3D vascular-like structures of soft tissue and endocrine organs. Elena Bassoli, Lucia Denti, Andrea Gatto, Giulia Spaletta, Alessandro Paderno, Nicoletta Zini, Annapaola Parrilli, Roberto Giardino, Valentina Strusi, Davide Dallatana, Simone Mastrogiacomo, Alessanra Zamparelli, **Michele lafisco**, Roberto Toni. *Virtual and Physical Prototyping*, 7(1), 3-11. **IF -**
- 2012 Preparation of injectable auto-forming alginate gel containing simvastatin with amorphous calcium phosphate as a controlled release medium and their therapeutic effect in osteoporosis model rat. Tomoko Ito, Mami Saito, Tomohiro Uchino, Mamoru Senna, **Michele lafisco**, Maria Prat, Lia Rimondini, Makoto Otsuka Ito. *Journal of Materials Science: Materials in Medicine*, 23(5), 1291-7. **IF 2.141**
- 2012 Electrostatic spray deposition of biomimetic nanocrystalline apatite coatings onto titanium. **Michele lafisco**, Ruggero Bosco, Sander CG Leeuwenburgh, Jeroen JJP van den Beucken, John A Jansen, Maria Prat, Norberto Roveri. *Advanced Engineering Materials*, 14(3), B13-B20. **IF 1.608**

- 2012 Development of a targeted drug delivery system: monoclonal antibodies adsorption onto bonelike hydroxyapatite nanocrystals surface. Elena Maria Varoni, **Michele lafisco**, Lia Rimondini, Maria Prat *Advanced Materials Research*, 409, 175-80. **IF -**
- 2012 Nanocrystalline carbonate-apatites: role of Ca/P ratio on the upload and release of anticancer platinum bisphosphonates. **Michele lafisco**, Barbara Palazzo, Gianmario Martra, Nicola Margiotta, Sara Piccinonna, Giovanni Natile, Valentina Gandin, Cristina Marzano, Norberto Roveri. *Nanoscale*, 4(1), 206-17. **IF 6.233**
- 2012 Conjugation of hydroxyapatite nanocrystals with human immunoglobulin G for nanomedical applications. **Michele lafisco**, Elena Varoni, Michele Di Foggia, Stefano Pietronave, Milena Fini, Norberto Roveri, Lia Rimondini, Maria Prat. *Colloids and Surfaces B: Biointerfaces*, 90(1), 1-7. **IF 3.554**
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BOOK CHAPTERS

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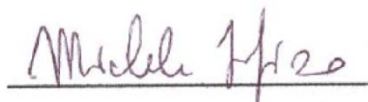
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INVITED SEMINARS

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- 2013 Biomimetic apatite nanocrystals preparation and applications. Institut National Polytechnique de Toulouse (INPT). Toulouse, France, June 28, 2013.
- 2012 Synthetic biomimetic hydroxyapatite: a nano-device for drug delivery. Laboratorio de Estudios Cristalográficos - IACT (CSIC-UGR). Granada, Spain, September 14, 2012.

Faenza 06/07/2017



Michele Iafisco

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.