

Ilaria Cacciotti Curriculum Vitae

Personal details

FIRST NAME : Ilaria
SURNAME : Cacciotti
NATIONALITY : Italian
ADDRESS: University of Rome "Niccolò Cusano", INSTM RU, Via Don Carlo Gnocchi 3, 00166 Rome-Italy
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Studies

- International and Interfaculty Master Course of Second Level in "Protection against CBRNe events" (IV Cycle, Academic Year 2012-2013)
Votation: 110/110 summa cum laude

- Second Level Master Course in "Forensic Genetics" (III cycle, Academic Year 2011-2012)
Thesis topic: "*Extraction of ancient DNA from bones:state of the art, applications and prospectives*"
Votation: 110/110 summa cum laude

Ph.D in Materials Engineering (XXIII cycle, Academic Year 2009-2010)
Thesis topic: "*Novel nanostructured ceramics, glass-ceramics and composites for biomedical and catalytic applications*"
Awards: - *European Biomaterials and Tissue Engineering Doctoral Award (EDA)*, ESB (*European Society of Biomaterials*)
- *Ph.D Thesis Award 'Marco Ramoni 2011'*
- *Ph.D Thesis Award 'AIMAT 2012'*

- Master of Science in Medical Engineering (summa cum laude)
Dissertation topic: "*Synthesis and characterization of hydroxyapatite and tricalcium phosphate nanopowders for bone tissue engineering*"
Award: Master of Science Award '*Fondazione Raeli*'
X International Award "*Giuseppe Sciacca*"

Current position

May 2014-present

Associate Professor (SSD ING-IND/22) of Materials Science & Technology and Biomaterials & Tissue Engineering at University of Rome "Niccolò Cusano"

Regional Secretary of the Youth Committee for UNESCO (Lazio)

Erasmus + Coordinator for Engineering Area at University of Rome "Niccolò Cusano"

Member of Expert Committe for National Science Foundation (NSF)

Member of Expert Committe for Canada Foundation for Innovation (CFI) and the Government of Quebec

Member of Expert Committe for the evaluation of projects submitted for RIS3 Campania

EXPERT peer reviewers for italian scientific evaluation-MIUR

November 2015-present

Member of the Board of PhD. Course in "Industrial and Civil Engineering"

October 2015-June 2017

Regional Secretary of the Youth Committee for UNESCO (Lazio)

Work Experiences

September 2013-May 2014

Assistant Professor at University of Rome "Niccolò Cusano"

March 2014- April 2014

Incarico per l'ergozione della docenza inerente la seguente disciplina: La Diffrattometria applicata a Restauro dei BB.CC., nell'ambito del Progetto 'L'Innovazione tecnologica nel Restauro dei Beni Culturali', Soggetto attuatore: Iciet Engineering Srl - Comune di svolgimento: Castelli (TE)

April 2013-May 2014

Post-doc at Enterprise Engineering Department of University of Rome 'Tor Vergata', INSTM Research Unit.

Project: CARIPLO 2012

Project title: "*Magnetic nanoparticle filled conductive polymer composites for emi reduction*"

May 2012-March 2013

Post-doc at Industrial Engineering Department of University of Rome ‘Tor Vergata’, INSTM Research Unit.

June 2011- April 2012

Post-doc at Industrial Engineering Department of University of Rome ‘Tor Vergata’, INSTM Research Unit.

Fellowship: *L’ORÉAL-UNESCO Italy for Women and Science 2011-IX Edition*

Project: *“Bioresorbable nanospheres and microspheres loaded with human neurons as dopamine release systems: development of a potential innovative therapy for the Parkinson disease treatment”*

November 2010-May 2011

Post-doc at Chemical Science and Technology Department of University of Rome ‘Tor Vergata’, INSTM Research Unit.

February 2005-December 2005

Student collaboration contract at University of Rome “Tor Vergata”

University of Rome ‘Tor Vergata’, Rome-Italy.

March 2016

Seminar S06 - La corretta interpretazione dei tracciati termoanalitici - GTAP™

organized by Mettler Toledo

10th March 2016, Hotel Antonella, Pomezia, Rome-Italy.

February 2016

Seminar S02 - La buona pratica di pipettaggio - GPP™

organized by Mettler Toledo

23rd February 2016, Hotel Antonella, Pomezia, Rome-Italy.

October 2015

Workshop "Tecniche analitiche di spettroscopia molecolare per il settore agroindustriale"

organized by Thermo Scientific™ and Antaris™ II FT-NIR Analyzer

27th October 2015, Centro di Ricerca per la Frutticoltura (CREA FRU), Rome-Italy.

Seminar S03 GEP di Roma "Buona pratica di misura del pH-GEP™"

organized by METTLER TOLEDO and Ordine dei Chimici LUAM (Lazio, Umbria, Abruzzo e Molise)

20th October 2015, Pick Center, Rome-Italy

July 2015

"Nuovi orientamenti per la protezione e la sicurezza del lavoro nei laboratori scientifici, didattici e di ricerca"

LABOZETA (La sicurezza nel laboratorio)

7th July 2015, Great Hall "F. Cacace", Dipartimento di Chimica e tecnologie del farmaco, University of Rome "Sapienza", Rome-Italy

November 2014

Corso "D.Lgs. 230/95: disciplina delle attività lavorative con utilizzo di sorgenti radiogene" (durata di 8 ore)

5th November 2014, Centro Gestione Sicurezza “Futura”, Via Cambridge, snc - 00133 Roma

April 2014

"The thermal analysis for the characterization of polymers and composites with practical demonstrations by DSC and DEA"

NETZSCH

10th April 2014, Hotel "Antonella", Pomezia-Italy

March 2014

"Corso di formazione in materia di sicurezza e salute nei luoghi di lavoro: RISCHIO CHIMICO"

27th March 2014, University of Rome "Tor Vergata"

February 2013-December 2013

International and Interfaculty Master of Second Level in "Protection against CBRNe events" (IV Cycle, Academic Year 2012-2013)

University of Rome "Tor Vergata"

School of Engineering (Department of Industrial Engineering)-School of Medicine (Department of Biomedicine and Prevention)

in collaboration with Esercito Italiano, Corpo Nazionale dei Vigili del Fuoco, ISSI (Istituto Superiore di Sanità), ENEA (Ente Nazionale Energia e Ambiente), INGV (Istituto Nazionale Geofisica e Vulcanologia), COPIT (Comitato Parlamentare per l'Innovazione Tecnologica), CRATI, SCIRE.

November 2013

- Seminar "Investigation and Criminology" by Dr. Roberta Bruzzone
- 9th November 2013, University of Rome "Tor Vergata", in the context of International and Interfaculty Master of Second Level in "Protection against CBRNe events", Rome-Italy.

July 2013

- RECONnet Workshop: *La bonifica dei siti contaminati: aggiornamento tecnico su tematiche di rilievo nazionale*
- 4th July 2013, INAIL, Auditorium, Rome, Italy

May 2013

Course JCBRN Def CoE
"Introduction to the International CBRN Training Curriculum Course"
20th-24th May 2013, Excellent Center NATO, Vyskov, Czech Republic

January 2012-December 2012

Master of Second Level in "Forensic Genetics" (first in the admission graduatory)
University of Rome "Tor Vergata"
School of Medicine and Surgery- Chairs of Medical Genetics and Forensic Medicine
in collaboration with the State Police Scientific Division, Orga Bio Human S.r.l., Applied Biosystems

July-August 2012

Internship Master of Second Level in "Forensic Genetics"
University of Rome "Tor Vergata"
Centro di Eccellenza per lo Studio del Rischio Genomico in Patologie Complesse Multifattoriali
Department of Biopathology and Diagnostic Imaging
School of Medicine- Human Genetics
30th July- 3rd August 2012

June 2012

- Workshop "TEM & SEM samples preparation"
20th June 2012, organised by MEDIA System & Fischione Instruments, in collaboration with University of Rome "Roma Tre", Faculty of Engineering, LIME Laboratory, Rome-Italy

- "CMS3-Cell Model Systems Summer School"
11th-15th June 2012, Congress Room CNR-ISM "Tor Vergata", Rome-Italy

May 2012

Nanomaterials for practitioner
28th May 2012, University of Rome "Roma Tre", Faculty of Engineering, Rome-Italy

November 2011

- "Course about the protection towards radiative sources" ("Corso D.Lgs. 230/95 disciplina delle attività lavorative con utilizzo di sorgenti radiogene")
14th November 2011, University of Rome "Tor Vergata", Rome-Italy

- "2011 ROADSHOW Particle Characterization"
Alfatest e Malvern Instruments
14th November 2011, Hotel "Antonella", Pomezia-Italy

12th November 2011

X International Award "Giuseppe Sciacca"-
Young Students: Sector Economy-Research and Development
Aula Magna della Pontificia Università Urbaniana – Città del Vaticano, Rome-Italy

September 2011

XXX Bioengineering School
Neuroinformatica
19th-23rd September 2011, Sede Estiva dell'Università di Padova, Brixen (BZ)-Italy

March 2011

- "Giornata sulla Microfluorescenza"
Bruker Italia, 22nd March 2011, Milano-Italy

June 2010

- "Seconda Giornata della Ricerca di Ateneo: Biotecnologie a Tor Vergata"
Aula Fleming, Facoltà di Medicina e Chirurgia, 16th June 2010, Rome-Italy
- "Seminar on Esperienze applicative e Soluzioni strumentali per la Caratterizzazione di sistemi Micro e Nanometrici: Dimensione - Morfologia – Reologia"
Dipartimento di Chimica e Tecnologie del Farmaco, in collaboration with Alfatest and Malvern Instruments, Aula D - Plesso 'Giorgio Tecce', University of Rome 'La Sapienza', 24th June 2010, Rome-Italy.

September 2007- June 2009

English Courses "General English" and "Business English" at 'Wall Street Institute'
Completed Levels: MASTERY Level (C2 secondo il Quadro Comune di Riferimento Europeo) for
"General English" Course
MASTERY Level (C2 secondo il Quadro Comune di Riferimento Europeo) for
"Business English" Course

April 2009

"Workshop on Nanoindentation Technologies"
University of Rome 'Rome3', 24th April 2009, Rome-Italy.

September 2008

14th National School of Materials Science
"Tecnologie Convergenti per i Materiali: problematiche nella Scienza, Energia e Ambiente"
Brixen, Sede Estiva Università di Padova, 22nd-30th September 2008, Brixen (BZ)-Italy.

July 2008

15th CIRMIB BIOMATERIALS SCHOOL and EXPERTISSUES SCHOOL & WORKSHOP
"Strategies and Materials for regenerative medicine: Focus on Bone and Cartilage"
Hotel Continental Terme, 07th-11th July 2008, Ischia Porto (NA)-Italy.

September 2007

"Sviluppi e prospettive delle attività di ricerca nel network europeo KMM"
Accademia Nazionale dei Lincei, 28th September 2007, Rome-Italy.

July 2007

Abilitation to the engineer profession (chartered engineer) (2nd session 2007)

June 2007

Master of Science Award 'Fondazione Raeli' 2007

May 2007

- "Mechanical and tribological properties characterisation of thin films and thick coatings"
University of Rome 'Roma Tre', Rome-Italy.
- "Presentation of novel Malvern Instruments systems for powders granulometric, shape, chemical mapping analyses"
17th May 2007, Rome-Italy.

February 2007

Training course on "Protection rules against ionizing radiations"
Chemical Science and Technology Department, University of Rome 'Tor Vergata', 22nd February 2007,
Rome-Italy.

October 2006

Seminar on FT-IR, NIR, Raman and TD-NMR spectroscopies
5th October 2006, Rome-Italy.

Certamen Ciceroniarum Arpinas, 19th Edition

Research experiences**August 2010-November 2010**

Visiting Researcher at Center for Material and Fibre Innovation Institute for Technology Research and Innovation (ITRI)
Geelong Technology Precinct, Geelong Campus at Waurn Ponds, Deakin University, Geelong, Victoria, Australia
Subject of the research project: "Production and characterization of titania and titanate nanofibers and nanotubes by the combination of electrospinning technique and sol-gel process".

January 2009-April 2009

Stage INSTM-Piezotech
Visiting Researcher at **Kyoto Institute of Technology** (KIT)-Piezotech, Kyoto, Japan
Subject of the research project: “*Spectroscopic characterization of (i) rare earth-doped ceramic and polymeric fibrous mats obtained by electrospinning and (ii) bioglasses and glass-ceramics prepared by sol-gel*”.

Awards

26th September 2016

Good Energy Award 2016-VII Edition

(in occasion of 16° Italian Energy Summit, 26th-27th September 2016, Sole24Ore Building, Milan, Italy)
Awards NO PROFIT Sector to UNESCO Youth Committee-Lazio for the project “*UNESCO in the school for the sustainability*”

July 2015

- Certificate of Excellence in Reviewing (in recognition of an outstanding contribution to the quality of the journal) (*Materials and Design* 2015)

17th February 2014

Young Researcher Award Elsevier" Materials Science and Engineering C" 2014

(in occasion of the TMS 2014 143rd ANNUAL MEETING & EXHIBITION, 16th-20th February 2014, San Diego Convention Center, San Diego, California)
17th February 2014, *Mission Beach ABC Room, Manchester Grand Hyatt, San Diego, California, USA*

2013

- Top Cited Author for 2011 and 2012 for the paper Cacciotti L., Bianco A., Pezzotti G., Gusmano G., **Synthesis, thermal behaviour and luminescence properties of rare earthdoped titania nanofibers**, *Chemical Engineering Journal*, 2011, Volume 166, pp. 751-764

- Certificate of Excellence in Reviewing (in recognition of an outstanding contribution to the quality of the journal) (*Materials Chemistry and Physics* 2013)

18th September 2012

Ph.D. thesis award 'AIMAT 2012'

(in occasion of the 11th Congress AIMAT (Associazione Italiana Ingegneria dei Materiali) 2012
16th-19th September 2012, GAETA (LT) - Hotel Summit)

8th May 2012

30 Beautiful stories Under 35 in Lazio: A talent is forever

YOUNG INTERNATIONAL FORUM

“La Pelanda” Testaccio-Rome, Italy

12th November 2011

X International Award "Giuseppe Sciacca"-

Young Students: Sector Economy-Research and Development

Aula Magna della Pontificia Università Urbaniana – Città del Vaticano, Rome-Italy

21st September 2011

Ph.D. Thesis Award 'Marco Ramoni'

(in occasion of the XXX Bioengineering School, 19th-23rd September 2011, Sede Estiva dell'Università di Padova, Brixen (BZ)-Italy)

Motivation: “*to have developed innovative, reliable and reproducible methodologies for the synthesis of calcium phosphate nanopowders and bioglasses and for the fabrication of electrospun bioresorbable nanocomposites for biomedical applications in the field of the tissue engineering and regenerative medicine.*”

6th September 2011

European Biomaterials and Tissue Engineering Doctoral Award (EDA), ESB (Europeand Society of Biomaterials) Award

(in occasion of the 24th European Conference on Biomaterials (ESB), 4th-8th September 2011, Convention Centre Dublin (CCD), Dublin-Ireland)

Motivation: “*The Award is a proof of quality and an added value for the CV of the young scientist, stating that the person has a clear European/international dimension in his/her PHD work, that provides an extra benefit in his/her professional career in industry or academia.”*

30th May 2011

Award “*L'ORÉAL-UNESCO Italy for Women and Science 2011-IX Edition*”

Project: “*Bioresorbable nanospheres and microspheres loaded with human neurons as dopamine release systems:*

development of a potential innovative therapy for the Parkinson disease treatment"
University of Milan, Milan-Italy

19th May 2011

8th CCT Award "Best Oral Presentation for Young Researchers"

Title: "Sol-gel derived RKKP glass-ceramics: microstructure, sintering behaviour and biological evaluation"

13th Annual Seminar & Meeting, *Ceramics, cells and tissues, International Congress on Bioceramics, Surface-reactive biomaterials as scaffolds and coatings: interactions with cells and tissues*

17th-20th May 2011, Faenza (RA)-Italy

Motivation: 'for the high quality and originality of the scientific content, logical pathway exhibited by the research work, the technological and individual potential, likelihood of the technology transfer, and standard of the oral and visual presentation'

21st June 2007

Master of Science Award 'Fondazione Raeli' 2007

Foreign languages

English: Good knowledge of written and spoken english language

English courses "General English" and "Business English" at 'Wall Street Institute'

Completed Levels: MASTERY Level (C2 secondo il Quadro Comune di Riferimento Europeo) for "General English" Course

MASTERY Level (C2 secondo il Quadro Comune di Riferimento Europeo) for "Business English" Course

Informatic skills

- Optimal Knowledge of MICROSOFT OFFICE package
- Good Knowledge of software AUTOCAD
- Good Knowledge of languages MATLAB/ FORTRAN/ C++

Research interests and activities

- Biomedical applications in the tissue engineering sector and for drug-delivery

Bioceramics

- ✓ Synthesis and characterization of bioglass and bioactive glass ceramics of conventional and innovative compositions by sol-gel process
- ✓ Synthesis and characterization of pure and substituted calcium phosphates nanostructured powders via wet precipitation
- ✓ Ceramic foams based on hydroxyapatite and wollastonite composites starting from ceramic fillers and preceramic polymers

Biopolymers

- ✓ Processing of synthetic and biologically-derived bioresorbable polymers by electrospinning technique
- ✓ Processing of micro- and nano-spheres and capsules based on hydrogels for cellular encapsulation and drug-delivery
- ✓ Processing of luminescent polymers doped with RE salts and organometallic compounds
- ✓ Processing of polymeric blends from co-solutions by electrospinning
- ✓ Processing of nanocomposites based on bioresorbable polymers (e.g. PCL, PLLA, PHBV...) and bioceramics (e.g. HAp, CaP, BG) by electrospinning

- Energetic and catalytic applications

Ceramic nanofibers and nanotubes

- ✓ Fabrication of pure and doped ceramic nanofibers (*i.e.* TiO_2 , ZnO , Al_2O_3 , $BaTiO_3$) by traditional

electrospinning set-up

- ✓ Fabrication of ceramic nanotubes by coaxial electrospinning (core-shell set-up)
- ✓ Synthesis and characterisation of ceramic short fibers by liquid-liquid dispersion emulsion methodology
- ✓ Synthesis and characterisation of composites at high dielectric constant

Ceramic coatings by sol-gel process

- ✓ Fabrication and characterisation of TCO (transparent conductive oxide) coatings by dipping
- ✓ Fabrication and characterisation of transparent hydrophobic coatings on ceramic and glass substrates by sol-gel spraying
- ✓ Characterisation of arc-PVD derived coatings for corrosion protection of several kinds of austenitic and martensitic steels

- **Dielectric polymers, ceramics and composites**

- ✓ Synthesis and characterisation of dielectric powders by sol-gel process
- ✓ Fabrication and characterisation of dielectric polymeric and hybrid films by solvent casting and spin coating

- **Applications in the food packaging sector**

- ✓ Production and characterisation of polymeric and composite films and fibers based on biodegradable and/or compostable polymers (e.g. polylactide, chitosan, polyhydroxalkanoates, polycaprolactone...) and porous and/or dense nanoparticles (e.g. nanoclay, silica, diatomite..), possibly functionalised with antioxidant and antimicrobial agents via chemi/physi-sorption.
- ✓ Design and production of multilayer and sandwich structures, composed of alternate films and fibrous mats

- **Application in the sensing sector**

- ✓ Production and characterisation of films and fibers for the immobilization and stabilization of enzymes for the selective sensing of specific analytes, such as pesticides, nerve gases, bacteria and viruses.
- ✓ Production and characterisation of modifiers able to make the work electrode of electrochemical sensors selectively sensible to specific analytes.

Patents

Applications of the following patents for registration:

1) N°: RM2013A000572

Deposition date: 18/10/2013

Title: "Microsfere di idrogeli di polimeri polisaccaridici contenenti cellule neurali secernenti dopamina, procedimento per la loro preparazione e loro usi in campo medico."

Inventors: Giuseppa Pistrutto, Alessandra Bianco, Ilaria Cacciotti, Claudia Ceci

Assignee: INSTM

2) N°: RM2014A000636

Filing date: 04/11/2014

Publication date: 05/05/2016

Title: "Mescole in gomma per porzioni di pneumatico - rubber compounds for tyre portions"

Inventors: Ilaria Cacciotti, Ludovica Caliano, John House, Francesca Romana Lamastra, Francesca Nanni, Assignee: Bridgestone Corporation

3) N°: 102017000074199

Filing date: 03/07/2017

Title: "Procedimento per la produzione di nicotina a partire da rifiuti urbani e relativo sistema di attuazione"

Assignee: University of Rome Niccolò Cusano

**Responsibilities of
Framework
Agreement**

- *Framework Agreement INSTM-UNICUSANO*
- *Framework Agreement UNICUSANO-CREA*
- *Framework Agreement UNICUSANO-ISS*

**Invited
Talks/Keynote-
Plenary Lectures**

- *Advances in Bioceramics - 7th International Congress on Ceramics*, 17-21 June 2018, Brazil
- *INTERNATIONAL CONFERENCE ON CERAMICS AND COMPOSITE MATERIALS*, 14-15 May, 2018, Rome, Italy.
- *International Conference and Exhibition on Materials & Engineering (Materials 2018)*, Feb 7-9, 2018 San Diego, USA
- “*TISSUE REGENERATION: ADVANCED CERAMICS AND COMPOSITES*” (*TRACE*), October 19- Aula Convegni NH Collection Genova Marina Molo, Italy
- *International Seminar on Biomaterials and Regenerative Medicine (BioReMed 2017)*, 5th-8th October 2017, Timisoara, Romania. (KEYNOTE)
- *41st International Conference and Expo on Advanced Ceramics and Composites (ICACC 2017)*, SYMPOSIUM 5: Next Generation Bioceramics and Biocomposites, 22nd-27th January 2017, Daytona Beach, United States Of America.
- *International Conference on Sustainable Bioplastics: “Bioplastics: A Genuine Alternative”*, 10th-11th November 2016, Alicante, Spain.
- *EMN MEETING ON BIOMATERIALS 2016*, 4th-7th April 2016, *Holiday Inn Resort Phuket, Phuket, Thailand*
- “*6th International Seminar on Biomaterials & Regenerative Medicine*” (*BIOREMED 2015*), 17th-20th September 2015, Oradea, Romania.
- *5th Molecular Materials Meeting @ Singapore 2015*, 3rd-5th August 2015, Resorts World™ Sentosa Convention Center, Singapore
- *Industrial Workshop- Applicazioni Industriali di Nanomateriali: Prospettive & Criticità*, 27th January 2015, University of Rome "Tor Vergata", Aula Seminari "Galileo", Rome, Italy.

**Conference
attendance**

October 2017

International Conference TISSUE REGENERATION: ADVANCED CERAMICS AND COMPOSITES (TRACE)
19th -20th October 2017, Palazzo della Meridiana-Genova, Italy.

International Seminar on Biomaterials and Regenerative Medicine - BIOREMED 2017 - Todays research for tomorrow medicine
05th -07th October 2017, Victor Babeș University for Medicine and Pharmacy Timișoara, Timișoara-România.

July 2017

XI Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM
12th-15th July 2017, Hotel Continental Terme, Ischia Porto (Na)-Italy.

XIV Convegno Nazionale AIMAT 2017

12th-15th July 2017, Hotel Continental Terme, Ischia Porto (Na)-Italy.

May 2017

4° Convegno Nazionale del Forum On Regenerative Methods:Tecnologie innovative nelle metodiche di rigenerazione tessutale (FORM 2017)
11th-12th May 2017, , Istituto Superiore di Sanità (ISS), Rome, Italy.

March 2017

STAMPA 3D IN MEDICINA: REGOLE, TUTELE, MERCATO E FORMAZIONE
31st March 2017, OPIFICIO GOLINELLI, Bologna

January 2017

"2nd National Assembly of Youth Committees for UNESCO"
14th-15th January 2017, Naples, Italy

November 2016

3rd International CBRNe Workshop

25th November 2016, Villa Mondragone-Rome, Italy

"Il Microbiota. L'Organo sconosciuto"

12th November 2016, University of Rome "Niccolò Cusano", Rome-Italy.

International Conference on Sustainable Bioplastics: "Bioplastics: A Genuine Alternative"

10th-11th November 2016, Alicante, Spain.

3rd Workshop on sustainable mobility

7th November 2016, University of Rome "Niccolò Cusano", Rome-Italy.

September 2016

#UNESCO4SCIENCE-Notte Europea dei Ricercatori 2016

30th September 2016, Great Hall-Enginnering Department, University of RomaTre, Rome, Italy.

16° Italian Energy Summit

26th-27th September 2016, Sole24Ore, Milan, Italy.

IX ECNP International Conference on Nanostructured Polymers and Nanocomposites (ECNP 2016)

18th-21st September 2016, Roma Eventi-Fontana di Trevi, Rome, Italy.

European Research Council (ERC) Giornata Nazionale di Lancio dei Bandi 2017 in Horizon 2020
14th September 2016, Aula Pocchiari, Istituto Superiore di Sanità, Rome, Italy.

Terza Giornata sul Grafene e Ossido di Grafene -Graphene Polymer Composite
9th September 2016, Salerno-Italy

July 2016

Congresso AIMAT 2016

13th-15th July 2016, Hotel Continental, Ischia Porto (Na), Italy

Congresso SIB 2016

13th-15th July 2016, Hotel Continental, Ischia Porto (Na), Italy

June 2016

V Convegno GNB (Gruppo Nazionale Bioingegneria

20th-22nd June 2016, Facoltà di Ingegneria, Università degli Studi di napoli "Federico II", Naples-Italy.

April 2016

II Convegno Nazionale: Nanotecnologie e nanomateriali nel settore alimentare e loro valutazione di sicurezza

29th April 2016, Aula Pocchiari, Istituto Superiore di Sanità (ISS), Rome-Italy.

PROGETTO RInnovaReNano: Sviluppo Responsabile dei Nanomateriali ed opportunità per il sistema industriale regionale

18th April 2016, Aula Pocchiari, Istituto Superiore di Sanità (ISS), Rome-Italy.

Le Prospettive Professionali dell'Ingegnere Biomedico

18th April 2016, Sala del Chiostro Università La Sapienza di Roma, Rome-Italy

3^o Convegno Nazionale del Forum On Regenerative Methods (FORM) 2016

Metodiche rigenerative: Applicazioni innovative in odontostomatologia e ortopedia

7th-8th April 2016, Aula Pocchiari, Istituto Superiore di Sanità (ISS), Rome-Italy.

EMN MEETING ON BIOMATERIALS 2016 (INVITED)

4th-7th April 2016, Holiday Inn Resort Phuket, PHUKET, THAILAND

March 2016

COMSOL Multiphysics Workshop

09th March 2016, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

January 2016

"1st National Assembly of Youth Committees for UNESCO"

15th-16th January 2016, Rome, Italy (15th January at Senato, Rome-Italy; 16th January at University of Rome

"Niccolò Cusano", Rome-Italy)

November 2015

1st International Congress Advances in the Packaging Industry-Product and Process (API)
19th -20th November 2015, Castel dell'Ovo, Naples, Italy.

2nd International CBRNe Workshop "IW CBRNe 2015"

20th November 2014, University of Rome "Tor Vergata", Rome, Italy.

2nd Workshop on the State-of-the-art and future trends for a sustainable development of road vehicles

16th November 2015, Great Hall-University of Rome "Niccolò Cusano", Rome, Italy.

October 2015

Congress: "Il cantiere dell'energia dai rifiuti: tecnologie ed esperienze"

29th October 2015, Great Hall-University of Rome "Niccolò Cusano", Rome, Italy.

INBB (Istituto Nazionale Biostrutture e Biosistemi Consorzio Interuniversitario) Congress: Ricerche Bio-Mediche di Frontiera

22nd-23rd October 2015, Aula Marconi, CNR Piazzale Aldo Moro, Rome, Italy.

2nd Bilateral Italian/Indian workshop "Nanoscale Excitations in Emergent Materials" (NEEM)

12th -14th October 2015, Aula Marconi, CNR Piazzale Aldo Moro, Rome, Italy.

Panel Discussion: "Il problem solving nella gestione del k mammario "innovazione tecnologica e biotecnologie nello screening del k mammario: potenzialita' e limiti"

2nd October 2015, Great Hall-University of Rome "Niccolò Cusano", Rome, Italy.

September 2015

Nanoscience & Nanotechnology 2015 (NN15)

28th September- 2nd October 2015, INFN-Laboratori Nazionali di Frascati, Rome-Italy.

ICNAAM 2015, Second Minisymposium on Mathematics in Engineering and Technology,

23rd-29th September 2015, Rodos Palace Hotel, Rhodes, Greece.

"6th International Seminar on Biomaterials & Regenerative Medicine" (BIOREMED 2015) (INVITED)

17th-20th September 2015, Oradea, Romania.

August 2015

5th Molecular Materials Meeting @ Singapore 2015 (INVITED)

3rd-5th August 2015, Resorts World™ Sentosa Convention Center, Singapore

July 2015

"X Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM

28th June-1st July 2015, Favignana (TP), Italy.

June 2015

VI WORKSHOP NAZIONALE AICING, Molecules and Materials: Chemistry for Engineering

22nd-23rd June 2015, Chiostro di San Pietro in Vincoli, University of Rome "Sapienza", Rome-Italy.

IDBN Italian Digital Biomanufacturing Network - Foundation Conference

19th June 2015, Aula Magna del Centro di Ricerca Codivilla-Putti, Istituto Ortopedico Rizzoli (IOR), Bologna-Italy.

"L'alimentazione nella pratica sportiva per il benessere psico-fisico dell'atleta e per il miglioramento delle performance"

06th June 2015, Aula Magna, University of Rome "Niccolò Cusano", Rome-Italy.

March 2015

2° Convegno Nazionale del Forum On Regenerative Methods (FORM) 2015

Le metodiche rigenerative nel Servizio Sanitario Nazionale (SSN): applicazioni attualmente utilizzate-
19th-20th March 2015, Aula Pocchiari, Istituto Superiore di Sanità (ISS), Rome-Italy.

January 2015

Industrial Workshop- Applicazioni Industriali di Nanomateriali: Prospettive & Criticità (INVITED)

27th January 2015, University of Rome "Tor Vergata", Aula Seminari "Galileo", Rome, Italy.

November 2014

Workshop on Sustainable Mobility - WSM2014

17th November 2014, University of Rome "Niccolò Cusano", Rome, Italy.

1st International CBRNe Workshop “IW CBRNe 2014” - Strategies and Solutions to Face Ongoing Global CBRNe Threats.

21st November 2014, University of Rome "Tor Vergata", Rome, Italy.

September 2014

ICNAAM 2014, First Minisymposium on Mathematics in Engineering and Technology,
22nd-28th September 2014, Rodos Palace Hotel, Rhodes, Greece.

XII Convegno Nazionale AIMAT 2014

21st-24th September 2014, Officine Cantelmo, Lecce, Italy.

February 2014

Nuove metodologie e applicazioni dell'antropologia e genetica forensi

14th February 2014, Aula Magna "Pietro Gismondi", Macroarea di Scienze Matematiche Fisiche e Naturali, University of Rome "Tor Vergata", Rome-Italy.

December 2013

VIII Convegno di Dermatologia Militare

3rd December 2013, Palazzo Salviati, Centro Alti Studi per la Difesa (CASD), Rome-Italy.

November 2013

1° Convegno Nazionale del Forum On Regenerative Methods (FORM) 2013

Le metodiche rigenerative nel SSN: una speranza per il futuro

28th-29th November 2013, Aula Pocchiari, Istituto Superiore di Sanità (ISS), Rome-Italy.

September 2013

9th Edition Nanoforum

Micro, Nano & Advanced technologies: where research meets business

18th-20th September 2013, Faculty of Engineering, University of Rome "La Sapienza", Rome-Italy

June-July 2013

IX Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM

30th June-3rd July 2013, Bari, Italy.

December 2012

Convegno di studi: DNA e il Processo Penale: la scienza in ausilio della conoscenza

Associazione Culturale Osservatorio Penale

14th December 2012, Residenza Farnese, Rome-Italy.

November 2012

97° Congresso Nazionale Società Italiana di Ortopedia e Traumatologia (SIOT) 2012

Lesioni capsulo-legamentose acute, le protesi dolorose

10th-14th November 2012, Marriott Park Hotel, Rome-Italy.

September 2012

8th Edition Nanoforum

Micro, Nano & Advanced technologies: where research meets business

24th-26th September 2012, Faculty of Engineering, University of Rome "La Sapienza", Rome-Italy

11th Congress AIMAT (Associazione Italiana Ingegneria dei Materiali) 2012

16th-19th September 2012, Hotel Summit, Gaeta (LT)-Italy

June 2012

3rd Congress GNB (National Bioengineering Group) 2012

26th-29th June 2012, University of Rome "Roma Tre", Faculty of Letters and Philosophy

SNETP Open Day: "Research and Development for a Sustainable Nuclear Energy in Europe: Status and Perspectives"

19th June 2012, ENEA Headquarters, Rome-Italy

May 2012

YOUNG INTERNATIONAL FORUM

8th-11th May 2012, "La Pelanda" Testaccio-Rome, Italy

April 2012

International Workshop on innovative nuclear reactors cooled by heavy liquid metals: status and perspectives

17th-20th April 2012, University of Pisa-Faculty of Engineering, Pisa-Italy

December 2011

Third International Conference: Regenerative Surgery
14th-16th December 2011, Eurostars Roma Aeterna Hotel, Rome-Italy

October 2011

96th Congresso Nazionale della Società Italiana di Ortopedia e Traumatologia (SIOT 2011)
Materiali e Rivestimenti in Ortopedia/Biotecnologie applicate alla Traumatologia
1st-5th October 2011, Pala Congressi, Rimini-Italy.

September 2011

7th Edition Nanoforum
Micro & Nanotechnologies: where research meets business
13th-15th September 2011, Faculty of Engineering, University of Rome "La Sapienza", Rome-Italy

24th European Conference on Biomaterials (ESB)

4th-8th September 2011, Convention Centre Dublin (CCD), Dublin-Ireland

July 2011

National Congress on Corrosion and Protection-IX Edition
6th-8th July 2011, Monte Porzio Catone (RM)-Italy

May 2011

13th Annual Seminar & Meeting, Ceramics, cells and tissues, International Congress on Bioceramics, Surface-reactive biomaterials as scaffolds and coatings: interactions with cells and tissues
17th-20th May 2011, Faenza (RA)-Italy

May 2010

BIOMATERIALI PER LA MEDICINA DEL BENESSERE: Farmaci, termalismo, protesi tradizionali, ingegneria tessutale e genetica: ruolo della nanotecnologia
6° PROGETTO GIACOBBE JACOB PROJECT (6th edition)
28th May 2010, Exposanità Exhibition area – Bologna

March 2010

III Forum Nazionale Giovani Ricercatori di Scienza e Tecnologia dei Materiali
22nd-24th March 2010, Centro civico di arte e cultura Altinate San Gaetano, Padua-Italy

November-December 2009

SAMIC 2009: From molecules to nanosystems: syntheses and methodologies in inorganic chemistry, chemistry and materials for energy and health
30th November-3rd December 2009, Bressanone/Brixen (BZ)-Italy.

October 2009

4th International Conference on surfaces, coatings and nanostructured materials (NanoSmat 2009)
19th-22nd October 2009, Rome-Italy

June 2009

11th International Conference and Exhibition of the European Ceramic Society (ECERS) 2009
21st-25th June 2009, Cracow, Poland

May 2009

12th Annual Seminar & Meeting, Ceramics, cells and tissues, International Congress on Bioceramics, Surface-reactive biomaterials as scaffolds and coatings: interactions with cells and tissues
19th-22nd May 2009, Faenza (RA)-Italy

September 2008

Congresso 2008 della Società Italiana Biomateriali
17th -19th September 2008, Follonica-Italy

June-July 2008

2nd International congress on ceramics
29th June- 4th July 2008, Verona-Italy

May-June 2008

8th World Biomaterials Congress
28th May-01st June 2008, Amsterdam-Poland

October 2007

Technical skills and competences	Several year experience in laboratory activities: -Wet chemistry - Synthesis of inorganic materials by precipitation and titration - Synthesis by sol gel process - Chemical functionalization of particles and fibers - Films by sol-gel processes (dip coating and spin coating) - Production of fibers and tubes by electrospinning technique -Preparation of short fibers by emulsion - Production of capsules and spheres by extrusion, cross-linking and emulsion routes.
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Excellent experience and practical knowledge of the following characterisation techniques:

- ✓ Optical Microscopy
- ✓ Fluorescence Microscopy
- ✓ Scanning Electron Microscopy (FE-SEM) equipped with EDS
- ✓ X-ray diffraction analysis (XRD and HT-XRD) for powder, thin films and bulk samples
- ✓ Infrared spectroscopy (FT-IR, ATR)
- ✓ UV-Vis spectroscopy
- ✓ Raman spectroscopy
- ✓ High performance liquid chromatography (HPLC)
- ✓ Optical properties measurements (photoluminescence and cathodoluminescence)
- ✓ Rheometer
- ✓ Thermal analysis (TG-DTA, DSC)
- ✓ Mechanical characterization (universal tensile test machine, Vickers and Knoop microhardness)
- ✓ Dynamico-mechanical thermoanalysis (DMTA)
- ✓ Porosimetry and specific surface area measurements (Hg-porosimetry and N₂ absorption)
- ✓ Electrospinning set-up (conventional and coaxial)
- ✓ Tests *in vitro* in simulated body fluids (SBF) in CO₂ incubator
- ✓ Dynamic viscosimetry and conductimetry

Teaching Experiences

A.Y. 2017-2018

Associate Professor of the Materials Science and Technology (9CFU) and of Biomaterials & Tissue Engineering (9CFU) Courses at the bachelor degree in Industrial Engineering (Curricula Biomedical, Management, Electronic, Agroindustrial and Mechanical) and in Civile Engineering, at the University of Rome "Niccolò Cusano".

Seminar (invited):

26-27/10/2017: "*Cementi innovativi per applicazioni in odontoiatria, chirurgia maxillo-facciale e ortopedia*", in the context of the *IV Course Biomateriali (BIOMAT2017): Tecnologie innovative in odontoiatria, chirurgia maxillo-facciale e ortopedia*", Rome 26th-27th October 2017, organised by ISTITUTO SUPERIORE DI SANITÀ "Dipartimento di Tecnologie e Salute", in collaboration with Seriale Management & Consulting in Sanità e ENCON Engineering & Consulting.

A.Y. 2016-2017

Associate Professor of the Materials Science and Technology (9CFU) and of Biomaterials & Tissue Engineering (9CFU) Courses at the bachelor degree in Industrial Engineering (Curricula Biomedical, Management, Electronic, Agroindustrial and Mechanical) and in Civile Engineering, at the University of Rome "Niccolò Cusano".

Seminar (invited):

20-21/10/2016: "*Drug delivery e encapsulamento cellulare: materiali, dispositivi, meccanismi di rilascio e interazione con le cellule.*", in the context of the *III Course "BIOMATERIALI: Applicazioni di rigenerazione tessutale in odontostomatologia e ortopedia "*, Rome 20th-21st October 2016, organised by ISTITUTO SUPERIORE DI SANITÀ "Dipartimento di Tecnologie e Salute", in collaboration with Seriale Management & Consulting in Sanità e ENCON Engineering & Consulting.

A.Y. 2015-2016

Associate Professor of the Materials Science and Technology (9CFU) and of Biomaterials & Tissue Engineering (9CFU) Courses at the bachelor degree in Industrial Engineering (Curricula Biomedical, Management, Electronic, Agroindustrial and Mechanical) and in Civile Engineering, at the University of Rome "Niccolò Cusano".

Seminar (invited):

10/11/2015: "Tissue engineering and regenerative medicine in dentistry and maxillofacial surgery: materials, technologies and interaction with cells" In the context of the Course "Biomaterials evolution in dentistry and maxillofacial surgery", Rome 09th-10th November 2015, organised by ISTITUTO SUPERIORE DI SANITÀ "Dipartimento di Tecnologie e Salute", in collaboration with Serialem Management & Consulting in Sanità e ENCON Engineering & Consulting

A.Y. 2014-2015

Associate Professor of the Materials Science and Technology (9CFU) and of General Chemistry (9CFU) Courses at the bachelor degree in Industrial Engineering and in Civile Engineering, at the University of Rome "Niccolò Cusano".

A.Y. 2013-2014

Lecturer of the General Chemistry Course (9CFU) at the bachelor degree in Industrial Engineering and in Civile Engineering, at the University of Rome "Niccolò Cusano".

Seminar (invited):

03/10/2013: "Bioceramics: properties, synthesis methodologies, applications and clinical cases" In the context of the Course "Biomaterials: applications in medical devices and regeneration methods- Present and Future", Rome 03rd-04th October 2013, organised by ISTITUTO SUPERIORE DI SANITÀ "Dipartimento di Tecnologie e Salute", in collaboration with Serialem Management & Consulting in Sanità e ENCON Engineering & Consulting

A.Y 2012-2013

Lecturer of the General Chemistry Course (9CFU) at the bachelor degree in Mechanical Engineering and in Civile Engineering, at the University UniCusano of Rome.

A.Y 2012-2013

Exercitations, seminars and lessons for the following courses at University of Rome 'Tor Vergata':

Construction and Architectural Engineering (course: Technology of Materials and Applied Chemistry)

Medical Engineering (course: Science and Technology of Biomaterials)

Mechanical Engineering (course: Science and Technology of Materials)

Materials Science and Technology (course: Materials for biomedical devices)

Materials Science and Technology (course: Composites and Ceramics)

Orthopedic Techniques (course: Science and Technology of Materials)

Cardiovascular perfusion and cardiocirculatory physiopathology techniques (course: Science and Technology of Materials)

A.Y 2011-2012

Exercitations, seminars and lessons for the following courses at University of Rome 'Tor Vergata':

Construction and Architectural Engineering (course: Technology of Materials and Applied Chemistry)

Medical Engineering (course: Science and Technology of Biomaterials)

Mechanical Engineering (course: Science and Technology of Materials)

Materials Science and Technology (course: Materials for biomedical devices)

Materials Science and Technology (course: Composites and Ceramics)

Orthopedic Techniques (course: Science and Technology of Materials)

Cardiovascular perfusion and cardiocirculatory physiopathology techniques (course: Science and Technology of Materials)

A.Y 2010-2011

Exercitations, seminars and lessons for the following courses at University of Rome 'Tor Vergata':

Medical Engineering (course: Science and Technology of Biomaterials)

Materials Science and Technology (course: Materials for biomedical devices)

Cardiovascular perfusion and cardiocirculatory physiopathology techniques (course: Science and Technology of Materials)

A.Y 2009-2010

Exercitations, seminars and lessons for the following courses at University of Rome 'Tor Vergata':

Medical Engineering (course: Science and Technology of Biomaterials)

Materials Science and Technology (course: Materials for biomedical devices)
Cardiovascular perfusion and cardiocirculatory physiopathology techniques (course: Science and Technology of Materials)

A.Y 2008-2009

Exercitations, seminars and lessons for the following courses at University of Rome 'Tor Vergata':

Medical Engineering (course: Science and Technology of Biomaterials)

A.Y 2007-2008

Exercitations, seminars and lessons for the following courses at University of Rome 'Tor Vergata':

Medical Engineering (course: Science and Technology of Biomaterials)

A.Y 2006-2007

Exercitations, seminars and lessons for the following courses at University of Rome 'Tor Vergata':

Medical Engineering (course: Science and Technology of Biomaterials)

- Member of the examination committee

- Member of the graduate degree committee

- Member of Ph.D. Examination Procedure at University of Erlangen-Nuremberg Cauerstr.
Erlangen, Germany (Doctoral Examination Procedure of Wei Li, 29/07/2015)

- Member of Committee for RTD-A Competition (SSD ING-IND/16) (05/06/2015)

Supervisor of Ph.D Students (Ph.D Course in Industrial Engineering)

November 2017-now

- PhD Student: Michela Raio

Cycle: XXXIII

University: University of Rome Niccolò Cusano

Department: Engineering

Group: Materials Science & Engineering, Biomaterials Group

February 2016-now

- PhD Student: Ilaria Campioni

Cycle: XXXI

University: University of Rome Niccolò Cusano

Department: Engineering

Group: Materials Science & Engineering, Biomaterials Group

November 2016-now

- PhD Student: Federica Nigro

Cycle: XXXII

University: University of Rome Niccolò Cusano

Department: Engineering

Group: Materials Science & Engineering, Biomaterials Group

Supervisor of Erasmus + Students

June 2015-August 2015

- Erasmus + Student: Cristina Elena Poenaru

University: University POLITEHNICA of Bucharest

Faculty: Engineering

Department: Materials Science & Engineering, Biomaterials Group

Project: "Mechanical characterisation of innovative dental implants"

- Erasmus + Student: Claudia Georgiana Milea

University: University POLITEHNICA of Bucharest

Faculty: Engineering

Department: Materials Science & Engineering, Biomaterials Group

Project: "Re-use of sea shell particles for the production of biopolymeric matrix composites and

for the hydroxyapatite synthesis"

Supervisor of Erasmus + Students

June 2017-September 2017

- Erasmus + Student: Daniela Gheorghita

University: University POLITEHNICA of Bucharest

Faculty: Engineering

Department: Materials Science & Engineering, Biomaterials Group

Project: "Fabrication and characterisation of composite fibers"

- Erasmus + Student: Ghițică Alexandra

University: University POLITEHNICA of Bucharest

Faculty: Engineering

Department: Materials Science & Engineering, Biomaterials Group

Project: "Preparation and characterisation of composite films"

Supervisor of Visiting Researchers

November 2017-December 2017

PhD.: Marina Ramos

University: University of Alicante

Faculty: Science

Department: Analytical Chemistry, Nutrition and Food Science, Food Science & Engineering

Group: Nanomaterials and Polymer Analysis

Project: "Preparation and characterisation of natural fibers based on the use of orange waste"

Supervisor of Visiting PhD. Students

March 2016-September 2016

PhD. Student: Farhad Garavand

University: University of Tehran

Faculty: Agricultural Engineering and Technology

Department: Food Science & Engineering

Project: "Preparation and characterisation of compostable films based on poly(lactic acid) and fruit waste extracts for applications in the food packaging"

Supervisor of Visiting Students

March 2016-September 2016

Student: Nooshin Vahedikia

University: University of Tehran

Faculty: Agricultural Engineering and Technology

Department: Food Science & Engineering

Project: "Preparation and characterisation of alginate and fruit waste extract based composites for applications in the food sector"

Supervisor for more than 50 theses for Bachelor and Master degrees in Mechanical Engineering, Industrial Engineering, Biomedical Engineering, Materials Science and Technology, Chemistry, Electronical Engineering, Environmental Engineering, Energetic Engineering.

Projects

Other

Years: 2017-now

Project: COST Actions | COST Association | CA COST Action CA16122

Title: Biomaterials and advanced physical techniques for regenerative cardiology and neurology (BIONECA)

Years:2016-now
Project: LIFE+ 2015
Title: LIFE15 ENV/IT/000417, LIFE Paint-it; Call: LIFE+; Topic: A new environment-friendly manufacturing approach for marine antifouling coating

Years: 2016-now
Project: Toscana FAR-PAS
Title: SCIADRO-Sciame di Droni

Years: 2013-now
Project: CARIPLO 2012
Title: "Magnetic nanoparticle filled conductive polymer composites for emi reduction"

Years: 2013-now
BRIDGESTONE Scientific and Technological Project
Title: "Development of the use of recycled and non-petrochemical derived materials for industrial applications in the fire sector"

Years: 2012-now
Comital Industrial Research Project
Title: "Technical and scientific state of the art about the preparation of thermostable, biodegradable and compostable resins"

Years: 2011-now
Enea Project PAR 2011
Accordo di Programma Ministero dello Sviluppo Economico ENEA
Progetto: Nuovo nucleare da fissione: collaborazioni internazionali e sviluppo competenze in materia nucleare
Attività di ricerca: "Caratterizzazione di rivestimenti PVD di TiN, FeAl, FeCrAl su substrati metallici"
Title: "Characterisation of TiN, FeAl, FeCrAl based coatings on metallic substrates by PVD"

Years 2011-2012
"L'ORÉAL-UNESCO Italy for Women and Science 2011-IX Edition" Project
Title: "Bioresorbable nanospheres and microspheres loaded with human neurons as dopamine release systems: development of a potential innovative therapy for the Parkinson disease treatment"

Years: 2012
Alitalia Industrial Research Project
Title: "Oil Monitoring"

Years: 2012
Stellini Textile Group S.r.l. Industrial Research Project
Title: "Determination of HALS in polymeric pellets"

Years: 2006-2009
Trial Project (CONSORZIO MATRIS)
Title: "Technologies and innovative materials for high temperatures oxidation resistance coatings for elevated performances aerospace components"

Years: 2007-2009
INST-M-PRISMA project 2007
Title: "Study of the alignment and segregation phenomena induced in hybrid polymeric matrices and in electrospun polymeric blends"

Years: 2006-2008
PRIN project 2006
Title: "Design and manufacture of organic, inorganic and hybrid nanostructured scaffolds as substrates for the differentiation of stem cells in regenerative medicine"

Affiliations to Scientific Associations

- Italian Interuniversity Consortium on Materials Science and Technology (INSTM)
- Italian Society of Materials Engineering (AIMAT)
- Biomaterials Italian Society (SIB)
- European Society for Biomaterials (ESB)
- Center for Regenerative Medicine (CIMER)
- International Association of Advanced Materials

- Metallurgy Italian Society (AIM-Associazione Italiana Metallurgia)
- American NanoSociety
- Athens Institute for Education and Research (ATINER)
- Società Ticinese delle Scienze Biomediche e Chimiche (STSBC)
- IDBN Italian Digital Biomaterials Network
- Mediterranean Institute of Fundamental Physics (MIFP)

Editor for books:

'Bone and biomaterials for bone tissue engineering', Special Issue volume published in *Key Engineering Materials*, Trans Tech Publication (TTP) Inc., 2013

'Nanomaterials and Nanotechnologies in Biomedical and Tissue Engineering', Special Issue volume to be published in *Journal of Nanomaterials*, Hindawi Publishing Corporation, 2015, In Press.

Member of Scientific/Organizing Committee of Conferences

INTERNATIONAL CONFERENCE ON CERAMICS AND COMPOSITE MATERIALS, 14-15 May, 2018, Rome, Italy.

"TISSUE REGENERATION: ADVANCED CERAMICS AND COMPOSITES" (TRACE), October 19-20, Aula Convegni NH Collection Genova Marina Molo, Italy

International Conference and Exhibition on Materials & Engineering (Materials 2018)

Feb 7-9, 2018 San Diego, USA

Baltic Conference Series 2017, 8th-11th October 2017, Stockholm-Sweden

International Seminar on Biomaterials and Regenerative Medicine (BioReMed 2017)

5th-8th October 2017, Timisoara, Romania.

3rd Int'l Conference on Biomaterials and Applications (ICBA 2017)

20-22 July 2017, Guilin, China.

41st International Conference and Expo on Advanced Ceramics and Composites (ICACC 2017)

SYMPOSIUM 5: Next Generation Bioceramics and Biocomposites

22nd-27th January 2017, Daytona Beach, United States Of America.

#UNESCO4SCIENCE-Notte Europea dei Ricercatori 2016

30th September 2016, Great Hall-Engineering Department, University of RomaTre, Rome, Italy.
in collaboration with Comitato Giovani Lazio della CNI per l'Unesco

"High value bio-based compounds for food packaging applications"

Dr. Marina Ramos, University of Alicante, Department of Analytical Chemistry, Nutrition and Food Science, Group Nanomaterials and Polymer Analysis

29th November 2017, Aula IV, University of Rome "Niccolò Cusano", Rome, Italy

"Polymer composites with metal nanoparticles for organic optoelectronics" hold by

Dr. Jiri Plfeger, Macromolecular Chemistry Institute (Ústav makromolekulární chemie AV ČR, v. v. i.)
Praha- Česká Republika

22nd September 2016, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

Lectures in the context of Erasmus+ programme from Adana University

"Analytical solution for shallow-water wave equations", hold by Dr. Baran Aydin, Adana Science and Technology University, Department of Civil Engineering

"Evaluation of unbound granular pavement layers with non-destructive test methods", hold by Dr. Volkan Emre Uz, Adana Science and Technology University, Department of Civil Engineering

20th June 2016, Classroom IV, University of Rome "Niccolò Cusano", Rome, Italy

"EDILIZIA LOW COST/LOW TECH: Una progettazione modulare e tecnologicamente semplice"

Lectures in the context of Erasmus+ programme from University of Osijek

"Pratiche urbane e processi di autocostruzione", hold by Prof. Antonella Valitutti, Università degli Studi di Roma "Niccolò Cusano", Dipartimento di Ingegneria

"Traditional rural low-tech architecture of the Croatian part of Middle Europe", hold by Prof. Sanja Lon?ar-Vickovi? University of Osijek, Department of Architecture and Urban Planning

Sistemi modulari di assemblaggio a secco: il pannello home done, hold by Dott.ssa Sara Scagliotti,

Sapienza - Università di Roma
01st June 2016, Classroom IV, University of Rome "Niccolò Cusano", Rome, Italy

"UNESCO Let's Jazz"

30th April 2016, International Jazz Day, in collaboration with Comitato Giovani Lazio della CNI per l'Unesco, Faramusic and I-jazz, Sala Consiliare del Comune di Rieti e Auditorium Vallone, Rieti, Italy.

World Water Day: Acqua, sostenibilità e partecipazione

22th March 2016, in collaboration with Comitato Giovani Lazio della CNI per l'Unesco and Consorzio Tiberina, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

COMSOL Multiphysics Workshop

09th March 2016, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

"1st National Assembly of Youth Committees for UNESCO"

15th-16th January 2016, Rome, Italy (15th January, at Senato, Rome-Italy; 16th January at University of Rome "Niccolò Cusano", Rome-Italy)

"6th International Seminar on Biomaterials & Regenerative Medicine" (BIOREMED 2015)
17th-20th September 2015, Oradea, Romania.

"Some Stem Cells Studies in Orthopedics, Neurology and Cardiology by Synchrotron Radiation" hold by Prof. Franco Rustichelli, Polytechnical University of Marches, Ancona, Italy
26th September 2015, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

"Composite materials for electronic applications" hold by Dr. Francesco Piana, Macromolecular Chemistry Institute (Ústav makromolekulární chemie AV ČR, v. v. i.) Praha- Česká Republika
09th July 2015, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

"New Trends in Biomaterials Research and Characterization: The potential of BIOCERAMICS" hold by Prof. Iulian Antoniac, University Politehnica of Bucharest, Romania
21st May 2015, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

"Functional ceramic materials for biomedical, biotechnological and environmental applications" hold by Dr. Laura Treccani, University of Bremen-Germany
14th April 2015, Great Hall, University of Rome "Niccolò Cusano", Rome, Italy

Member of Editorial Board:

Biomedical glasses-DE GRUYTER OPEN
International Journal of Nanomaterials, Nanotechnology and Nanomedicine
Frontiers in Biomaterials
Chemical Science Communications
Elyns Journal of Material Science and Techniques
International Journal of Emerging Science and Engineering
International Journal of Engineering and Advanced Technology(TM) (IJEAT)
International Journal of Innovative Science and Modern Engineering
International Journal of Innovative Technology and Exploring Engineering
International Journal of Management and Humanities
Nanomedicine and Nanotechnology Journal
Open Journal of Materials Science (Bentham Science)
Portico Journal of Chemistry - PJC
Recent Patents on Materials Science (Bentham Science)
Scientific Journal International (SJI): Chemical & Bioengineering
The Open Materials Science Journal-Bentham Open
World Journal of Textile Engineering and Technology

Member of Technical Program Committee for the *2nd International Conference on Biomedical Engineering and Biotechnology* (ICBEB 2013), Wuhan, China, 11th-13th October 2013

Member of Committee for the "I Giovani e la Scienza- Fast Award 2015"
11th-13th April 2015, Milan-Italy

Member of Technical Program Committee for the *4th International Conference on Biomedical Engineering and Biotechnology* (ICBEB 2015), Shanghai, China, 18th-20th August 2015

Member of Technical Program Committee for the *3rd International Conference on Biomedical*

Engineering and Biotechnology (ICBEB 2014), Beijing, China, 25th-28th September 2014

Member of Technical Program Committee for the *2nd International Conference on Biomedical Engineering and Biotechnology* (ICBEB 2013), Wuhan, China, 11th-13th October 2013

Invited Reviewer for *2014 Global Conference on Polymer and Composite Materials* (PCM 2014), Ningbo, China, 27th-29th May 2014

Invited Reviewer for *2015 Global Conference on Polymer and Composite Materials* (PCM 2015), Beijing, China, 16th-18th May 2015

Reviewer for International journals

Acta Biomaterialia

Advances in Colloid and Interface Science

Advanced Powder Technology

Applied Physics A: Materials Science & Processing

Applied Surface Science

Arabian Journal of Chemistry

Biofabrication

Bioceramics Development and Applications (Medical Science)

Biointerphases

Biomaterials Science-RSC Publishing

Biomedical Materials

Biomed Research International

Carbon

Cellulose

Ceramics International

Chemical Engineering & Technology

Chemical Engineering Journal

Colloids and Surfaces A: Physicochemical and Engineering Aspects

Desalination and Water Treatment Science and Engineering

Displays

Fibers and Polymers

Food Chemistry

Hazardous Materials

Fibers and Polymers

International Journal of Applied Ceramic Technology

International Journal of Applied Glass Science

International Journal of Industrial Chemistry

International Journal of Molecular Science

International Journal of Physical Sciences

International Journal of Polymeric Materials and Polymeric Biomaterials

Iranian Journal of Chemistry and Chemical Engineering (IJCCE)

Journal of Alloys and Compounds

Journal of Applied Biomaterials & Functional Materials

Journal of Applied Crystallography

Journal of Biomaterials Applications

Journal of Biomedical Materials Research Part A

Journal of Industrial and Engineering Chemistry

Journal of Inorganic and Organometallic Polymers and Material

Journal of Inorganic Materials

Journal of Luminescence

Journal of Materials Chemistry B

Journal of Materials Science

Journal of Materials Science and Engineering C

Journal of Micromechanics and Microengineering

Journal of Microencapsulation

Journal of Nanoscience and Nanotechnology

Journal of non-crystalline solids

Journal of Physics D: Applied Physics

Journal of Porous Materials

Journal of the American Ceramic Society

Journal of The Minerals, Metals & Materials Society (JOM) (TMS)

Journal of Thermal Analysis and Calorimetry

Journal of the Royal Society Interface

Journal of Tissue Engineering and Regenerative Medicine

Journal of Zhejiang University-SCIENCE A

Materials
Materials & Design
Materials Characterization
Materials Chemistry and Physics
Materials Express
Materials Letters
Materials Research
Materials Research Express
Materials Science and Engineering B
Materials Science and Engineering C
Medical Engineering & Physics
Microencapsulation
Nanoscience and Nanotechnology Letters
Nanotechnology
New Journal of Chemistry
Optical Materials
Optics and Laser Technology
Physical Chemistry Chemical Physics
Polymer Bulletin
Polymers
Polymers for Advanced Technology
Powder Technology
Research on Chemical Intermediates
Smart Materials and Structures
Spectroscopy Letters
Thin Solid Films

Collaborations

- Institute of Biochemistry and Clinical Biochemistry, Università Cattolica del Sacro Cuore
- Departments of Chemical Science and Technology, Physics, Biomedicine & Prevention, Industrial Engineering, Enterprise Engineering, University of Rome "Tor Vergata", Rome-Italy
- Department of Materials Science and Chemical Engineering, LINCE Lab, Politecnico di Torino, Torino-Italy
- Department of Chemistry, University of Rome "Sapienza", Rome-Italy.
- DiSTeMeV and Solid State Chemistry Laboratory, University of Verona, Verona-Italy
- Department of Chemical Science, University of Catania, Catania-Italy
- Centro Sviluppo Materiali S.p.a., Rome-Italy
- Enea, Centro Ricerche Brasimone, Bologna-Italy
- Mechanical and Industrial Engineering Department, University of Rome 'Roma Tre', Rome-Italy
- Department of Public Health and Cell Biology, University of Rome 'Tor Vergata', Rome-Italy
- Department of Technology and Health, Istituto Superiore di Sanità, Rome-Italy
- Ceramic Physics Laboratory & Research Institute for Nanoscience, RIN, Kyoto Institute of Technology, Kyoto-Japan
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Publications

(a) International Journals

- *Published*

- (1) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano

Thermal stability and sintering behaviour of hydroxyapatite nanopowders, *J. Thermal Anal. Calor.* 88 (2007): 237-243.

- (2) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, **Si-substituted hydroxyapatite nanopowders: synthesis, thermal stability and sinterability**, *Materials Research Bulletin* 44 (2009): 345-354.
- (3) Ilaria Cacciotti, Alessandra Bianco, Mariangela Lombardi, Laura Montanaro (corresponding Author: I. Cacciotti), **Mg-substituted hydroxyapatite nanopowders: synthesis, thermal stability and sinterability**, *J. Europ. Ceram. Soc.* 29[14] (2009): 2969-2978. doi:10.1016/j.jeurceramsoc.2009.04.038
- (4) Alessandra Bianco, Costantino Del Gaudio, Ilaria Cacciotti, **Electrospun poly(ϵ -caprolactone)-gelatin mats for tissue engineering scaffolding**, *Journal of Applied Biomaterials & Biomechanics* (now: *Journal of Applied Biomaterials & Functional Materials*) 7 [1] (2009): 55.
- (5) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Edoardo Bemporad, Marco Sebastiani (corresponding Author: I. Cacciotti), **F-substituted hydroxyapatite nanopowders: thermal stability, sintering behavior and mechanical properties**, *Ceramics International* 36[1] (2010): 313-322.
- (6) Alessandra Bianco, Ilaria Cacciotti, Maria Elena Fragalà, Francesca Romana Lamastra, Adolfo Speghini, Fabio Piccinelli, Graziella Malandrino and Gualtiero Gusmano (corresponding Author: I. Cacciotti), **Eu-doped titania nanofibers: processing, thermal behaviour and luminescent properties**, *Journal of Nanoscience and Nanotechnology* 10 (2010): 5183-5190, DOI:10.1166/jnn.2010.2215.
- (7) Alessio Mezzi, Saulius Kaciulis, Ilaria Cacciotti, Alessandra Bianco, Gualtiero Gusmano, Francesca Romana Lamastra, Maria Elena Fragalà, **Structure and Composition of Electrospun Titania Nanofibres Doped with Eu**, *Surface and Interface Analysis* (SIA) 42 (2010): 572-575.
- (8) Giorgia Lehmann, Paola Palmero, Ilaria Cacciotti, Raffaella Pecci, Luisa Campagnolo, Rossella Bedini, Gregorio Siracusa, Alessandra Bianco, Antonella Camaioni, Laura Montanaro, **Design, production and biocompatibility of nanostructured porous HAp and Si-HAp ceramics as three-dimensional scaffolds for stem cell culture and differentiation**, *Ceramics Silikaty* 54[2] (2010): 90-96.
- (9) Maria Elena Fragalà, Ilaria Cacciotti, Yana Aleva, Raffaella Lo Nigro, Alessandra Bianco, Graziella Malandrino, Corrado Spinella, Giuseppe Pezzotti and Gualtiero Gusmano, **Core-shell Zn doped TiO₂-ZnO nanofibers fabricated via a combination of electrospinning and metal-organic chemical vapour deposition**, *CrystEngComm* 12 (2010): 3858-3865.
- (10) Ilaria Cacciotti, Francesca Romana Lamastra, Alessandra Bianco, Adolfo Speghini, Fabio Piccinelli, Maria Elena Fragalà, Graziella Malandrino and Gualtiero Gusmano (corresponding Author: I. Cacciotti), **Microstructure, thermal behaviour and luminescent properties of electrospun Eu-doped TiO₂ nanofibers**, *Materials Ceramiczne/Ceramic Materials* 62[4] (2010): 516-520.
- (11) Ilaria Cacciotti, Alessandra Bianco, Giuseppe Pezzotti and Gualtiero Gusmano (corresponding Author: I. Cacciotti), **Synthesis, thermal behaviour and luminescent properties of rare earth-doped titania nanofibers**, *Chemical Engineering Journal* 166[2] (2011): 751-764 (selected as *Featured Article* for Cover page)
- (12) Ilaria Cacciotti and Alessandra Bianco (corresponding Author: I. Cacciotti), **High thermally stable Mg-substituted tricalcium phosphate by precipitation**, *Ceramics International* 37 (2011): 127-137. DOI: 10.1016/j.ceramint.2010.08.023
- (13) Ilaria Cacciotti, Alessandra Bianco, Giuseppe Pezzotti and Gualtiero Gusmano (corresponding Author: I. Cacciotti), **Terbium and Ytterbium-doped titania luminescent nanofibers by means of electrospinning technique**, *Materials Chemistry and Physics* 126[3] (2011): 532-541, DOI: 10.1016/j.matchemphys.2011.01.034.
- (14) Alessandra Bianco, Barbara Marida Bozzo, Costantino Del Gaudio, Ilaria Cacciotti, Ilaria Armentano, Mariaserena Dottori, Francesco D'Angelo, Sabata Martino, Aldo Orlacchio and Josè Maria Kenny, **Poly(L-lactic acid)/calcium-deficient nanohydroxyapatite electrospun mats for murine bone marrow stem cell cultures**, *Journal of Bioactive and Compatible Polymers* 26[3] (2011): 225-241, DOI: 10.1177/0883911511406250.
- (15) Enrico Bernardo, Paolo Colombo, Ilaria Cacciotti, Alessandra Bianco, Rossella Bedini, Raffaella Pecci, Karoline Pardun, Laura Treccani, Kurosch Rezwan, **Porous wollastonite-hydroxyapatite bioceramics from a preceramic polymer and micro- or nano-sized fillers**, *Journal of the European Ceramic Society* 32 (2012): 399-408, doi:10.1016/j.jeurceramsoc.2011.08.010.

- (16) Alessandra Bianco, Ilaria Cacciotti, Julietta V.Rau, Sara Laureti, Marco Fosca, Valerio Rossi Albertini, Antonio Ravaglioli, Monica Celi, Irene Cerocchi, Umberto Tarantino, **Innovative hydroxyapatite nanostructured coatings on titanium substrates by Pulsed Laser Deposition (PLD)**, *Journal of Orthopaedics and Traumatology* 12 (Suppl 1) [S125–S164] (2011): S153-S154, DOI 10.1007/s10195-011-0151-1.
- (17) Alessandra Bianco, Erica Di Federico, Ilaria Cacciotti (corresponding Author: I. Cacciotti), **Electrospun poly(ϵ -caprolactone)-based composites using synthesized β -tricalcium phosphate**, *Polymers for advanced technology* 22[12] (2011): 1832–1841, December 2011 DOI: 10.1002/pat.1680.
- (18) Francesca Romana Lamastra, Ilaria Cacciotti, Alessandra Bellucci, Francesca Nanni, **Innovative Al-Ni-Ir composition for bond coats: microstructure, phase analysis and oxidation behaviour**, *Intermetallics* 22 (2012) 241-250, doi:10.1016/j.intermet.2011.11.018.
- (19) Julietta V. Rau, Roberto Teghil, Marco Fosca, Angela De Bonis, Ilaria Cacciotti, Alessandra Bianco, Ruggero Caminiti, Valerio Rossi Albertini, Antonio Ravaglioli, **Bioactive glass-ceramic coatings deposited by pulsed laser deposition from RKKP targets (sol-gel vs melt-processing route)**, *Materials Research Bulletin* 47 (2012) 1130–1137, doi: 10.1016/j.materresbull.2012.02.011.
- (20) Francesco D'Angelo, Ilaria Armentano, Ilaria Cacciotti, Roberto Tiribuzi, Mattia Quattrocelli, Costantino Del Gaudio, Elena Fortunati, Enrica Saino, Auro Caraffa, Giuliano Giorgio Cerulli, Livia Visai, Josè Maria Kenny, Maurilio Sampaolesi, Alessandra Bianco, Sabata Martino and Aldo Orlacchio, **Tuning multi/pluri-potent stem cell fate by electrospun poly(L-lactic acid)-calcium-deficient hydroxyapatite nanocomposite mats**, *Biomacromolecules* 13 [5] (2012): 1350-1360, DOI: 10.1021/bm3000716.
- (21) Ilaria Cacciotti, Mariangela Lombardi, Alessandra Bianco, Antonio Ravaglioli, Laura Montanaro (corresponding Author: I. Cacciotti), **Sol-gel derived 45S5 bioglass: synthesis, microstructural evolution and thermal behaviour**, *Journal of Materials Science: Materials in Medicine* 23[8] (2012): 1849-1866.
- (22) Giorgia Lehmann, Ilaria Cacciotti, Paola Palmero, Laura Montanaro, Alessandra Bianco, Luisa Campagnolo, Antonella Camaioni, **Differentiation of osteoblast and osteoclast precursors on pure and silicon-substituted synthesized hydroxyapatites**, *Biomedical Materials* 7 (2012) 055001 (13pp) doi:10.1088/1748-6041/7/5/055001.
- (23) Alessandra Bianco, Manuela Calderone and Ilaria Cacciotti (corresponding Author: I. Cacciotti), **Electrospun PHBV/PEO co-solution blends: microstructure, thermal and mechanical properties**, *Materials Science and Engineering: C* 33[3] (1 April 2013): 1067–1077, doi: 10.1016/j.msec.2012.11.030.
- (24) Alessandra Bianco, Ilaria Cacciotti, Ilaria Cappelloni, Preface to "Bone and Biomaterials for Bone Tissue Engineering", Special Issue Volume published in *Key Engineering Materials* Vol. 541 (2013), Trans Tech Publications (TTP) Inc., Switzerland.
- (25) Ilaria Cacciotti, Giorgia Lehmann, Antonella Camaioni, Alessandra Bianco (corresponding Author: I. Cacciotti), **AP40 bioactive glass ceramic by sol-gel synthesis: in vitro dissolution and cell-mediated bioresorption**, *Bone and biomaterials for bone tissue engineering*, Special Issue Volume published in *Key Engineering Materials* Vol. 541 (2013) pp 41-50, Trans Tech Publications (TTP) Inc., Switzerland, doi:10.4028/www.scientific.net/KEM.541.41
- (26) Mariangela Lombardi, Laurent Gremillard, Jerome Chevalier, Leila Lefebvre, Ilaria Cacciotti, Alessandra Bianco, Laura Montanaro, **A comparative study between melt-derived and sol-gel synthesized 45S5 bioactive glasses**, 'Bone and biomaterials for bone tissue engineering', Special Issue Volume published in *Key Engineering Materials* Vol. 541 (2013) pp 15-30, Trans Tech Publications (TTP) Inc., Switzerland, doi:10.4028/www.scientific.net/KEM.541.15
- (27) Julietta V. Rau, Marco Fosca, Ilaria Cacciotti, Sara Laureti, Alessandra Bianco, Roberto Teghil, **Nanostructured Si-substituted hydroxyapatite coatings for biomedical applications**, *Thin Solid Films* 543 (2013): 167–170, DOI: 10.1016/j.tsf.2012.12.113.
- (28) Ashish Yadav, Roberta De Angelis, Mauro Casalboni, Fabio De Matteis, Paolo Proposito, Francesca Nanni, Ilaria Cacciotti, **Spectral properties of self-assembled polystyrene nanospheres photonic crystals doped with luminescent dyes**, *Optical Materials* 35[8], June 2013: 1538–1543, <http://dx.doi.org/10.1016/j.optmat.2013.03.020>.
- (29) Ilaria Cacciotti, Manuela Calderone, Alessandra Bianco (corresponding Author: I. Cacciotti), **Tailoring the properties of electrospun PHBV mats: co-solution blending and selective removal of PEO**, *European Polymer Journal* 49 (2013) 3210–3222. DOI: 10.1016/j.eurpolymj.2013.06.024.
- (30) Francesca Nanni, Francesca Romana Lamastra, Fabio Franceschetti, Francesco Biccari, Ilaria Cacciotti (corresponding Author: I. Cacciotti), **Mo-doped indium oxide films by dip-coating: synthesis, microstructure and optical properties**, *Ceramics International* 40(1 Part B) (2014): 1851-1858, DOI:

- (31) Laura Fiocco, Enrico Bernardo, Paolo Colombo, Ilaria Cacciotti, Alessandra Bianco, Devis Bellucci, Antonella Sola, Valeria Cannillo, **Novel processing of bioglass ceramics from silicone resins containing micro- and nano-sized oxide particle fillers**, *Journal of Biomedical Materials Research - Part A* 102[8](2014):2502-2510; DOI: 10.1002/jbm.a.34918.
- (32) Roberta De Angelis, Iole Venditti, Ilaria Fratoddi, Fabio De Matteis, Paolo Prospetto, Ilaria Cacciotti, Liliana D'Amico, Francesca Nanni, Ashish Yadav, Mauro Casalboni, Maria V. Russo, **From nanospheres to microribbons: self-assembled Eosin Y doped PMMA nanoparticles as photonic crystals**, *Journal of Colloid and Interface Science* 414 (2014) 24–32.
- (33) Claudia Mazzuca, Gianfranco Bocchinfuso, Ilaria Cacciotti, Laura Micheli, Giuseppe Palleschi, Antonio Palleschi, **Versatile hydrogels: an efficient way to clean paper artworks**, *RSC Advances* 3 (2013): 22896-22899, DOI: 10.1039/C3RA44387F.
- (34) Ilaria Cacciotti, Elena Fortunati, Debora Puglia, José María Kenny, Francesca Nanni (corresponding Author: I. Cacciotti), **Effect of silver nanoparticles and cellulose nanocrystals on electrospun poly(lactic) acid mats: morphology, thermal properties and mechanical behaviour**, *Carbohydrate Polymers* 103 (2014): 22– 31, DOI: 10.1016/j.carbpol.2013.11.052.
- (35) Ilaria Cacciotti, Francesca Nanni, Valeria Campaniello, Francesca Romana Lamstra (corresponding Author: I. Cacciotti), **Development of transparent hydrorepellent modified SiO₂ coatings for glazed sanitarywares**, *Materials Chemistry and Physics* 146[3] (2014): 240-252, DOI: 10.1016/j.matchemphys.2014.03.005.
- (36) Ilaria Cacciotti, Pio Ciro Aspetti, Orlando Cenciarelli, Mariachiara Carestia, Daniele Di Giovanni, Andrea Malizia, Fabrizio D'Amico, Alessandro Sassolini, Carlo Bellecci, Pasquale Gaudio (corresponding Author: I. Cacciotti), **Simulation of Caesium-137 (¹³⁷Cs) Local Diffusion as a Consequence of the Chernobyl Accident Using Hotspot**, *Defence S&T Technical Bulletin* 7[1] (2014): 18-26.
- (37) J.V. Rau, I. Cacciotti, A. De Bonis, M. Fosca, V.S. Komlev, A. Latini, A. Santagata, R. Teghil, **Fe-doped hydroxyapatite coatings for orthopaedic and dental implant applications**, *Applied Surface Science* 307(2014): 301-305; DOI:10.1016/j.apsusc.2014.04.030.
- (38) Devis Bellucci, Antonella Sola, Ilaria Cacciotti, Cristina Bartoli, Matteo Gazzari, Alessandra Bianco, Federica Chiellini, Valeria Cannillo, **Mg- and/or Sr- doped Tricalcium phosphate/bioactive glass composites: synthesis, microstructure and biological responsiveness**, *Materials Science and Engineering C* 42(2014): 312-324; DOI: 10.1016/j.msec.2014.05.047.
- (39) Stefano Cinti, Fabiana Arduini, Giada Vellucci, Ilaria Cacciotti, Francesca Nanni, Danila Moscone, **Carbon black assisted tailoring of Prussian Blue nanoparticles to tune sensitivity and detection limit towards H₂O₂ by using screen-printed electrode**, *Electrochemistry Communications* 47 (2014) 63–66. DOI: <http://dx.doi.org/10.1016/j.elecom.2014.07.018>.
- (40) Ilaria Cacciotti, Manlio Valentini, Francesca Nanni (corresponding Author: I. Cacciotti), **Ternary Systems Based on PVDF, BaTiO₃ and MWCNTs: Fabrication, Characterization, Electromagnetic Simulation**, *AIP (American Institute of Physics) Conference Proceedings* 1648 (2015), 570020-1/570020-4, doi: 10.1063/1.4912806.
- (41) Fabiana Arduini, Matteo Forchielli, Aziz Amine, Daniela Neagu, Ilaria Cacciotti, Francesca Nanni, Danila Moscone, Giuseppe Palleschi, **Screen-printed biosensor modified with carbon black nanoparticles for the determination of paraoxon based on the inhibition of butyrylcholinesterase**, *Microchimica Acta* 182[3-4] (2015): 643-651. DOI: 10.1007/s00604-014-1370-y.
- (42) Mariangela Lombardi, Ilaria Cacciotti, Alessandra Bianco, Laura Montanaro (corresponding Author: I. Cacciotti), **RKKP bioactive glass-ceramic material via an aqueous sol-gel process**, *Ceramics International* 41[3] (2015), 1 April 2015: 3371-3380. DOI: 10.1016/j.ceramint.2014.10.064.
- (43) M. Zappino, I. Cacciotti, I. Benucci, F. Nanni, K. Liburdi, F. Valentini, M. Esti, **Bromelain immobilization on microbial and animal source chitosan film for application in wine-like medium: microstructural, mechanical and catalytic characterisations**, *Food Hydrocolloids* 45 (2015) 41-47, doi:10.1016/j.foodhyd.2014.11.001.
- (44) Julietta V. Rau, Ilaria Cacciotti, Sara Laureti, Marco Fosca, Gaspare Varvaro, Alessandro Latini, **Bioactive, nanostructured Si-substituted hydroxyapatite coatings on titanium prepared by Pulsed Laser Deposition**, *J Biomed Mater Res PartB Applied Biomaterials* 103[8] (2015): 1621-1631. DOI: 10.1002/jbm.b.33344
- (45) Francesco De Nicola, Paola Castrucci, Manuela Scarselli, Francesca Nanni, Ilaria Cacciotti, and Maurizio De

Crescenzi, **Exploiting the Hierarchical Morphology of Single-Walled and Multi-Walled Carbon Nanotube Films for Nearly Super-Hydrophobic Coatings**, *Beilstein Journal of Nanotechnology* 6 (2015): 353–360; DOI:10.3762/bjnano.6.34.

(46) Francesco De Nicola, Paola Castrucci, Manuela Scarselli, Ilaria Cacciotti, Francesca Nanni, and Maurizio De Crescenzi, **Multi-Fractal Hierarchy of Single-Walled Carbon Nanotube Hydrophobic Coatings**, *Scientific Reports (Nature Publishing Group)* 5 (2015): 8583; DOI: 10.1038/srep08583.

(47) Francesco De Nicola, Paola Castrucci, Manuela Scarselli, Francesca Nanni, Ilaria Cacciotti, and Maurizio De Crescenzi, **Super-Hydrophobic Multi-Walled Carbon Nanotube Coatings for Stainless Steel**, *Nanotechnology* 26[14] (2015), 145701, doi:10.1088/0957-4484/26/14/145701

(48) M. Scarselli, P. Castrucci, F. De Nicola, I. Cacciotti, F. Nanni, E. Gatto, M. Venanzi, and M. De Crescenzi, **Applications of three-dimensional carbon nanotube networks**, *Beilstein Journal of Nanotechnology* 6 (2015): 792–798. doi:10.3762/bjnano.6.82

(49) Mario Ledda, Angela De Bonis, Francesca Romana Bertani, Ilaria Cacciotti, Roberto Teghil, Maria Grazia Lolli, Antonio Ravaglioli, Antonella Lisi, Julietta V. Rau, **Interdisciplinary Approach to Cell-Biomaterial Interactions: Biocompatibility and Cell Friendly Characteristics of RKKP Glass-Ceramic Coatings on Titanium**, *Biomedical Materials* 10[3] (2015) 035005 doi:10.1088/1748-6041/10/3/035005.

(50) S. Cinti, F. Arduini, M. Carbone, L. Sansone, I. Cacciotti, D. Moscone, G. Palleschi, **Screen-printed Electrodes Modified with Carbon Nanomaterials: A Comparison among Carbon Black, Carbon Nanotubes and Graphene**, *Special Issue: Advanced Materials in Electroanalysis* 27[9] (2015): 2230–2238- Editor: PINGARRÓN. DOI: 10.1002/elan.201500168.

(51) Francesco De Nicola, Chiara Pintossi, Francesca Nanni, Ilaria Cacciotti, Manuela Scarselli, Giovanni Drera, Stefania Pagliara, Luigi Sangaletti, Maurizio De Crescenzi, Paola Castrucci, **Controlling the Thickness of Carbon Nanotube Random Network Films by the Estimation of the Absorption Coefficient**, *Carbon* 95 (2015): 28–33. doi:10.1016/j.carbon.2015.07.096.

(52) Ilaria Cacciotti, John N. House, Claudia Mazzuca, Manlio Valentini, Francesco Madau, Antonio Palleschi, Paolo Straffi, Francesca Nanni (corresponding author: I. Cacciotti), **Neat and GNPs loaded natural rubber fibers by electrospinning: manufacturing and characterization**, *Materials & Design* 88 (2015): 1109–1118 (25 December 2015). DOI: <http://dx.doi.org/10.1016/j.matdes.2015.09.054>

(53) S. Cinti, D. Neagu, M. Carbone, I. Cacciotti, D. Moscone, F. Arduini, **Novel carbon black-Cobalt phthalocyanine nanocomposite as sensing platform to detect organophosphorous pollutants at screen-printed electrode**, *Electrochimica Acta* 188 (2016): 574–581. DOI: <http://dx.doi.org/10.1016/j.electacta.2015.11.069>.

(54) Ilaria Cacciotti, Francesca Nanni (corresponding author: I. Cacciotti), **Poly(lactic) acid fibers loaded with mesoporous silica for potential applications in the active food packaging**, *AIP (American Institute of Physics) Conference Proceedings* 1738 (2016): 270018 (1-4). doi: 10.1063/1.4952057.

(55) Ilaria Cacciotti, Daniele Di Giovanni, Alessandro Pergolini, Andrea Malizia, Mariachiara Carestia, Leonardo Palombi, Carlo Bellecci, Pasquale Gaudio (corresponding author: I. Cacciotti), **'G.A.T.E': Gap Analysis for TTX evaluation**, *AIP (American Institute of Physics) Conference Proceedings* 1738 (2016): 270019 (1-5). doi: 10.1063/1.4952058.

(56) Malizia, A; Corrao, S; Capobianco, L; Carestia, M; Cenciarelli, O; Di Giovanna, D; Riccio, R; Minghetti, S; Aspetti, PC; Pioletti, S; Soremich, F; De Masic , D; Cacciotti, I ; Saluccie, L; Bucci, A; Pergolini, A; Rotondi, L; Pirelli, F; Marchi, F; Lutazzi, E; Pierro, L; Barletta, T; Astorino, S; Ferrari, G; Matrone, G; Carminati, G; Fontana, C; Frusteri, L; Sassolini, A; Unali, F; Trombadore, V; Bellecci, C; Fiorito, R ; Gucciardino , A; D'Amico, F; Rothbacher, D; Russo, C; Gaudio, P, **Disaster management in case of CBRNe events: an innovative methodology to improve the safety knowledge of advisors and first responders**, *Defence & Security Analysis* 32(1) (2016), March 2016: 79-90. DOI: 10.1080/14751798.2015.1130319.

(57) Francesco De Nicola, Matteo Salvato, Carla Cirillo, Michele Crivellari, Maurizio Boscardin, Manuela Scarselli, Francesca Nanni, Ilaria Cacciotti, Maurizio De Crescenzi, and Paola Castrucci, **Record Efficiency of Air-Stable Multi-Walled Carbon Nanotube/Silicon Solar Cells**, *Carbon* 101(2016): 226–234. doi:10.1016/j.carbon.2016.01.099

(58) A. De Bonis, M. Curcio, M. Fosca, I. Cacciotti, A. Santagata, R. Teghil, J.V. Rau, **RBP1 bioactive glass-ceramic films obtained by Pulsed Laser Deposition**, *Materials Letters* 175, 15 July 2016, Pages 195–198. DOI: <http://dx.doi.org/10.1016/j.matlet.2016.04.044>

(59) I. Cacciotti, F. Nanni (corresponding author: I. Cacciotti), **Innovative composites based on compostable polymers and natural fillers for food packaging**, *Journal of Applied Biomaterials & Functional Materials* 14(1) (2016): e112. DOI: 10.5301/jabfm.5000272. eISSN 2280-8000

(60) Daria Talarico, Fabiana Arduini, Aziz Amine, Ilaria Cacciotti, Danila Moscone, Giuseppe Palleschi, **Screen-**

printed electrode modified with carbon black nanoparticles and chitosan: a novel platform for acetylcholinesterase biosensor development, Analytical & Bioanalytical Chemistry 408(2016): 7299-7309. doi:10.1007/s00216-016-9604-y

(61) Ilaria Benucci, Claudio Lombardelli, Ilaria Cacciotti, Katia Liburdi, Francesca Nanni, Marco Esti (corresponding author: I. Cacciotti), **Chitosan beads from microbial and animal sources as enzyme supports for wine application, Food Hydrocolloids** 61, December 2016, Pages 191–200. DOI: doi:10.1016/j.foodhyd.2016.05.016

(62) Cacciotti I, Melino S, Nanni F (corresponding author: I. Cacciotti), **Compostable polymers and natural fillers based films as sustainable systems for food packaging applications, J Appl Biomater Funct Mater** 14[3](2016): e343, DOI: 10.5301/jabfm.5000321. eISSN 2280-8000.

(63) Cacciotti I, Ciocci M, Nanni F, Melino S (corresponding author: I. Cacciotti), **The influence of garlic extracts on the thermal, mechanical and biological properties of electrospun poly(lactic acid) fibers, J Appl Biomater Funct Mater** 14[3](2016): e373, DOI: 10.5301/jabfm.5000321. eISSN 2280-8000.

(64) Ciocci M, Cacciotti I, Melino S, **3D silk-fibroin hydrogel scaffolds functionalized with protein-microspheres for cardiac tissue repair, J Appl Biomater Funct Mater** 14[3](2016): e375, DOI: 10.5301/jabfm.5000321. eISSN 2280-8000.

(65) Ilaria Cacciotti, **Biopolymers based multifunctional composite systems by electrospinning technique, Journal of Bioremediation & Biodegradation** 7(6): 31 (ISSN: 2155-6199). DOI: 10.4172/2155-6199.C1.005

(66) Ilaria Cacciotti, **Bivalent cationic ions doped bioactive glasses: the influence of magnesium, zinc, strontium and copper on the physical and biological properties, Journal of Materials Science** 52(15) (2017): 8812–8831, August 2017. DOI: 10.1007/s10853-017-1010-0

(67) Ilaria Cacciotti, Leonardo Duranti, Francesca Nanni (corresponding author: I. Cacciotti), **Biocomposites based on poly(lactide) and agri-food waste derived calcium carbonate, J Appl Biomater Funct Mater** 15[4] (2017): e390. DOI: 10.5301/jabfm.5000369

(68) Ilaria Cacciotti, Elena Fortunati, Debora Puglia, José Maria Kenny, Francesca Nanni (corresponding author: I. Cacciotti), **Polylactic acid fibrous mats loaded with nanocrystalline cellulose and decorated with silver nanoparticles by electrospinning technique, J Appl Biomater Funct Mater** 15[4] (2017): e410. DOI: 10.5301/jabfm.5000369.

(69) Farhad Garavand, Milad Rouhi, Seyed Hadi Razavi, Ilaria Cacciotti, Reza Mohammadi, **Improving the integrity of natural biopolymer films used in food packaging by crosslinking approach: A review, International Journal of Biological Macromolecules** 104 (2017) 687–707. doi:10.1016/j.ijbiomac.2017.06.093.

(70) Michele Barbieri, Filippo Cellini, Ilaria Cacciotti, Sean D. Peterson, Maurizio Porfiri, **In situ temperature sensing with fluorescent chitosan-coated PNIPAAm/alginate beads, Journal of Materials Science** 52[20]: 12506–12512. October 2017. DOI 10.1007/s10853-017-1345-6

(71) F.R. Lamasta, M.L. Grilli, G. Leahu, A. Belardini, R. Li Voti, C. Sibilia, D. Salvatori, I. Cacciotti, F. Nanni, **Diatom frustules decorated with zinc oxide nanoparticles for enhanced optical properties, Nanotechnology** 28 (2017) 375704 (10pp).

(72) Ilaria Cacciotti, Claudia Ceci, Alessandra Bianco, Giuseppa Pistrutto, **Neuro-differentiated Ntera2 cancer stem cells encapsulated in alginate beads: first evidence of biological functionality, Materials Science and Engineering C** 81, Pages 32–38. 1 December 2017. DOI: 10.1016/j.msec.2017.07.033.

(73) Ilaria Benucci, Katia Liburdi, Ilaria Cacciotti, Claudio Lombardelli, Matteo Zappino, Francesca Nanni, Marco Esti (corresponding author: I. Cacciotti), **Chitosan/clay nanocomposite films as support for enzyme immobilization: an innovative green approach for reducing the haze potential in white wine, Food Hydrocolloids** 74(2018): 124-131. <https://doi.org/10.1016/j.foodhyd.2017.08.005>

(74) M. Salvato, M. Scagliotti, M. De Crescenzi, M. Crivellari, P. Prospisito, I. Cacciotti and P. Castrucci, **Single walled carbon nanotube/Si heterojunctions for high responsivity photodetectors, Nanotechnology** 28 (2017): 435201 (9pp). <https://doi.org/10.1088/1361-6528/aa8797>

(75) Stefano Cinti, Vincenzo Mazzarracchio, Ilaria Cacciotti, Danila Moscone and Fabiana Arduini, **Carbon Black-Modified Electrodes Screen-Printed onto Paper Towel, Waxed Paper, and Parafilm M®, Sensors** 17(2017): 2267(12 pages). doi:10.3390/s17102267

(76) Farhad Garavand, Seyed Hadi Razavi and Ilaria Cacciotti, **Synchronized extraction and purification of L-lactic acid from fermentation broth by emulsion liquid membrane (ELM) technique, Journal of Dispersion Science and Technology** (2017) In Press, <http://dx.doi.org/10.1080/01932691.2017.1396225>.

(77) Matteo Ciocci, Ilaria Cacciotti, Dror Seliktar and Sonia Melino, **Injectable Silk Fibroin-Hydrogels Functionalized with Microspheres as Adult Stem Cells-Carrier Systems**, *International Journal of Biological Macromolecules*, In Press, <https://doi.org/10.1016/j.ijbiomac.2017.11.013>.

(b) Book Chapters

- (1) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Marco Sebastiani and Edoardo Bemporad, **Pure and substituted hydroxyapatite nanopowders by precipitation**, *Special Topics on Materials Science and Technology – An Italian Panorama*, BRILL Publisher, edited by : D. Acierno, A. D'Amore, D. Caputo, R. Cioffi, Leiden-Boston (2009): 65-74 (ISBN 978 90 04 17224 1).
- (2) Antonella Camaioni, Ilaria Cacciotti, Luisa Campagnolo, Alessandra Bianco, **Silicon substituted hydroxyapatite for biomedical applications**, In: *Hydroxyapatite for biomedical applications*, Michael Mucalo Editor, Woodhead Publishing Elsevier Limited Edition, Oxford, United Kingdom 2015, Chapter 15, pp 343-373, ISBN: 978-178242041-5;978-178242033-0; doi:10.1016/B978-1-78242-033-0.00015-8.
- (3) Ilaria Cacciotti, **Cationic and Anionic substitutions in hydroxyapatite**, In: *Handbook of Bioceramics and Biocomposites*, Iulian Vasile Antoniac Editor, Springer International Publishing 2016, 1 January 2016, Pages 145-211. ISBN 978-3-319-12459-9, DOI: 10.1007/978-3-319-09230-0_7-1.

(c) Monographic volumes

- (1) Ilaria Cacciotti, Federica Caselli, Santina Iudicello, **Introduzione alla Tomografia Assiale Computerizzata (T.A.C.)**, *Lavoro coordinato dal prof. Gaspare Galati nell'ambito dell'insegnamento "Rappresentazione e Elaborazione dei segnali"*; A.A. 2002-2003, <http://radarlab.disp.uniroma2.it/FilePDF/PARTE%201%20TAC.PDF>
- (2) Alessandra Bianco, Ilaria Cacciotti, Edoardo Bemporad and Laura Montanaro, **Synthesis of hydroxyapatite nanopowders**, *Proceedings of VIII Convegno Nazionale AIMAT*, 27 Giugno – 1 Luglio 2006, Università di Palermo, Palermo, Italy.
- (3) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi and Laura Montanaro, **Nanostructured silicon-substituted hydroxyapatites**, *Proceedings of the 11th Ceramics, cells and tissues, International Congress on Bioceramics*, October 2nd-5th 2007, Faenza, Italy, edited by A. Ravaglioli and A. Krajewski, published by Consiglio Nazionale delle Ricerche Rome, ISBN 88-8080-085-X 978-88-80-80-085-9, pp. 211-221 (2008).
- (4) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano, **Nanostructured F-substituted hydroxyapatites**, *Global Roadmap for ceramics: Proceedings of the 2nd International Congress on Ceramics (ICC2)*, June 29th- July 4th 2008, Verona, Italy, edited by Alida Bellosi and Gian Nicola Babini, published by ISTEC-CNR, Institute of Science and Technology for Ceramics, National Research Council, Italy 2008 (ISBN 978-88-8080-084-2).
- (5) Ilaria Cacciotti, Alessandra Bianco, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano, **Synthesis and characterization of Mg-substituted hydroxyapatite nanopowders**, *Global Roadmap for ceramics: Proceedings of the 2nd International Congress on Ceramics (ICC2)*, June 29th- July 4th 2008, Verona, Italy, edited by Alida Bellosi and Gian Nicola Babini, published by ISTEC-CNR, Institute of Science and Technology for Ceramics, National Research Council, Italy 2008 (ISBN 978-88-8080-084-2).
- (6) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano, **Si-substituted hydroxyapatite nanopowders by precipitation: synthesis, thermal stability and sintering behaviour**, *Global Roadmap for ceramics: Proceedings of the 2nd International Congress on Ceramics (ICC2)*, June 29th- July 4th 2008, Verona, Italy, edited by Alida Bellosi and Gian Nicola Babini, published by ISTEC-CNR, Institute of Science and Technology for Ceramics, National Research Council, Italy 2008 (ISBN 978-88-8080-084-2).
- (7) Alessandra Bianco, Erica Di Federico, Ilana Moscatelli, Ilaria Armentano, Ilaria Cacciotti, Antonella Camaioni, Luisa Campagnolo, Mariaserena Dottori, Jose Maria Kenny, Gregorio Siracusa, Gualtiero Gusmano, **Membrane nanoibride riassorbibili elettrofilate per la rigenerazione del tessuto osseo**, *Atti del 9^o Convegno Nazionale AIMAT*, D. Acierno, D. Caputo, R. Cioffi, A. D'Amore, B. Liguori, Edizioni Ziino 1960, ISBN 978-88-900948-6-6, pp. 93-96.
- (8) Alessandra Bianco, Ilaria Cacciotti, Edoardo Bemporad, Marco Sebastiani, Mariangela Lombardi, Laura Montanaro, **Sintesi per via umida di polveri nanometriche di idrossiapatite pura e variamente sostituita**, *Atti del 9^o Convegno Nazionale AIMAT*, D. Acierno, D. Caputo, R. Cioffi, A. D'Amore, B. Liguori, Edizioni Ziino 1960, ISBN 978-88-900948-6-6, pp. 97-100.

- (9) Ilaria Cacciotti and Alessandra Bianco, **Processing bioglasses of innovative compositions by means of sol-gel technique**, *Proceedings of the 12th Meeting & Seminar on: Ceramics, cells and tissues, International Congress on Bioceramics, Surface-reactive biomaterials as scaffolds and coatings: interactions with cells and tissues*, May 19th-22nd 2009, Faenza-Italy, edited by Antonio Ravaglioli and Adriano Krajewski, published by Consiglio Nazionale delle Ricerche Rome, ISBN 978-88-8080-111-5, 2009: 250-260.
- (10) Giorgia Lehmann, Paola Palmero, Ilaria Cacciotti, Raffaella Pecci, Luisa Campagnolo, Rossella Bedini, Antonella Camaioni, Alessandra Bianco, Gregorio Siracusa, Laura Montanaro, **Design, production and biocompatibility of nanostructured porous HAp and Si-HAp ceramics as three-dimensional scaffolds for stem cell culture and differentiation**, *Proceedings of the 12th Meeting & Seminar on: Ceramics, cells and tissues, International Congress on Bioceramics, Surface-reactive biomaterials as scaffolds and coatings: interactions with cells and tissues*, May 19th-22nd 2009, Faenza-Italy, edited by Antonio Ravaglioli and Adriano Krajewski, published by Consiglio Nazionale delle Ricerche Rome, ISBN 978-88-8080-111-5, 2009: 66-72.
- (11) Ilaria Cacciotti, Francesca Romana Lamastra , Alessandra Bianco , Adolfo Speghini, Fabio Piccinelli, Maria Elena Fragalà, Graziella Malandrino and Gualtiero Gusmano, **Eu-doped titania nanofibers by electrospinning**, *Proceedings of the 11th International Conference and Exhibition of the European Ceramic Society (ECERS)*, Krakow, Poland, edited by M.M. Bućko, K. Haberko, Z. Pędziuch & L. Zych (2009): 634-638, ISBN 978-83-60958-54-4.
- (12) Alessandra Bianco, Costantino Del Gaudio, Ilaria Cacciotti, Enrico Ercolani, Manuela Calderone, **Elettrofilatura di blend polimerici bioriassorbibili**, *Proceedings del X Convegno Nazionale AIMAT*, Capo Vaticano (VV), 5-8 Settembre 2010, a cura di Rosario Aiello e Flaviano Testa, edited by Centro Editoriale e Librario-Università della Calabria, pp 85-66, ISBN 978-88-7458-114-6.
- (13) Rossella Bedini, Alessandra Bianco, Gianluca Notarangelo, Raffaella Pecci, Pietro Ioppolo, Ilaria Cacciotti, Gualtiero Gusmano, **Developing and set up of a mechanical fatigue test system for dental implants according to UNI EN ISO 14801:2008 technical normative (Sviluppo e messa a punto di un sistema di prove meccaniche a fatica per sistemi di impianti dentali secondo indicazioni della normativa tecnica UNI EN ISO 14801:2008)**, *Rapporti ISTISAN*: 10/24 (2010): 1-55, ISSN 1123-3117.
- (14) Paolo Bagalà, Giampiero Montesperelli, Ilaria Cacciotti, Alessandra Bianco, Costantino Del Gaudio, Gualtiero Gusmano, **Sviluppo di rivestimenti multiplayer PLLA/TiO₂ self-healing per la lega Al 6060**, *Proceedings delle Giornate Nazionali sulla Corrosione e Protezione-IX Edizione*, Monte Porzio Catone (RM), Italy, 6-8 Luglio 2011.
- (15) Ilaria Cacciotti, Mariangela Lombardi, Giorgia Lehmann, Luca Peruzzo, Laura Montanaro, Antonella Camaioni, Fabio Tateo, Alessandra Bianco and Antonio Ravaglioli, **Sol-gel derived RKKP glass-ceramics: microstructure, sintering behaviour and biological evaluation**, *Proceedings of 13th Ceramics, cells and tissues, International Congress on Bioceramics: Regenerative Nanomedicine, Tissue and Genetic Engineering and the role of ceramics*, edited by Antonio Ravaglioli and Adriano Krajewski, published by Centuria Agenzia per l'Innovazione della Romagna Soc. Cons. Srl,ISBN code: 978-88-96771-31-0.
- (16) Giorgia Lehmann, Ilaria Cacciotti, Luisa Campagnolo, Alessandra Bianco, Antonella Camaioni, **Differentiation of osteoclast precursors from human blood on pure and Si-substituted hydroxyapatites**, *Proceedings of 13th Ceramics, cells and tissues, International Congress on Bioceramics: Regenerative Nanomedicine, Tissue and Genetic Engineering and the role of ceramics*, edited by Antonio Ravaglioli and Adriano Krajewski, published by Centuria Agenzia per l'Innovazione della Romagna Soc. Cons. Srl,ISBN code: 978-88-96771-31-0.
- (17) Ilaria Cacciotti, Federica Caselli, Simone Maggi, Alessandra Bianco, **Alginate beads for drug delivery: synthesis, characterization and modeling**, *Proceedings of 3^o Congress GNB (National Bioengineering Group) 2012*, 26th-29th June 2012, University of Rome "Roma Tre", Rome-Italy, edited by Aurelio Cappozzo, Tommaso D'Alessio, Eugenio Guglielmelli, Ettore Pennestrì, Serenella Salinari, coedited by Valentina Camomilla and Maurizio Schmid, Pàtron Editore, Bologna 2012, page 378, ISBN:978 88 555 3182-5.
- (18) Ilaria Cacciotti, Mariangela Lombardi, Giorgia Lehmann, Antonella Camaioni, Laura Montanaro, Alessandra Bianco, **Innovative sol-gel derived bioactive glass-ceramic systems: synthesis, sintering behaviour and biological responsiveness**, *Proceedings of 3^o Congress GNB (National Bioengineering Group) 2012*, 26th-29th June 2012, University of Rome "Roma Tre", Rome-Italy, edited by Aurelio Cappozzo, Tommaso D'Alessio, Eugenio Guglielmelli, Ettore Pennestrì, Serenella Salinari, coedited by Valentina Camomilla and Maurizio Schmid, Pàtron Editore, Bologna 2012, page 379, ISBN:978 88 555 3182-5.
- (19) Ilaria Cacciotti Pierluca Galloni, Alessandra Bianco, **Sistemi drug-delivery a base di alginato**, *Proceedings del XI Convegno Nazionale AIMAT*, 16-19 settembre 2012, Gaeta (LT)-Italy, Editors: G.

Dell'Agli, G. Mascolo, M.C. Mascolo, M. Pansini, ISBN 978-88-97930-037, pp. 101-104 .

(20) Ilaria Cacciotti, Francesca Romana Lamastra, Valeria Campaniello, Francesca Nanni, **Deposizione di rivestimenti idrorepellenti e trasparenti a base di silice modificata mediante areografia**, *Proceedings of XII Convegno Nazionale AIMAT*, 21st-24th September 2014, Lecce, Italy. Atti del 12° Convegno Nazionale AIMAT, pubblicato da AIMAT (AIMAT Ass. Italiana Ingegneria dei Materiali), ISBN 9788894040203.

(21) Ilaria Cacciotti, **Nuovi biomateriali per applicazioni in medicina rigenerativa**, In: 2° Convegno Nazionale del Forum On Regenerative Methods (FORM) 2015: Le metodiche rigenerative nel Servizio Sanitario Nazionale (SSN): applicazioni attualmente utilizzate- Riassunti, Editors Bedini R, Pecci R, Meleo D, Meli P, 19th-20th March 2015, 'Aula Pocchiari'-Istituto Superiore di Sanità (ISS), Rome, Italy, Istituto Superiore di Sanità; 2015 (ISTISAN Congressi 15/C1), ISSN 0393-5620.

(22) Ilaria Cacciotti and Francesca Nanni, **Multifunctional composite systems based on biopolymers and natural fillers for food packaging**, *Proceedings of 2nd bilateral Italian/Indian workshop "Nanoscale Excitations in Emergent Materials 2015" (NEEM 2015)*, edited by Augusto Marcelli and Chidambara Balasubramanian, Science Series No.7, published in Rome on November 2015, Superstripes Press, Rome, Italy, <http://www.superstripes.net/science/science.htm>, ISBN 9788866830450, ISBN-A 10.978.886683/0450, pp 22-23.

(23) M. Bragaglia, V. Cherubini, I. Cacciotti, M. Rinaldi, S. Mori, S. Kaciulis, F. Nanni, G. Montesperelli, **Citric acid aerospace stainless steel passivation: a green approach**, Proceedings of 15th CEAS (Council of European Aerospace Societies) Air & Space Conference, 7th-11th September 2015, Delft University of Technology, The Netherlands.

(24) M. Rinaldi, I. Cacciotti, U. Lafont, L. Pambagian, T. Ghidini, V. Canala, V. Massarelli, F. Nanni, **New green polymer composites processed by additive manufacturing for “clean space” applications**, Proceedings of 15th CEAS (Council of European Aerospace Societies) Air & Space Conference, 7th-11th September 2015, Delft University of Technology, The Netherlands.

(25) M. De Crescenzi, F. De Nicola, F. Nanni, I. Cacciotti, M. Salvato, M. Scarselli, P. Castrucci, **Carbon Nanotube/Silicon and Graphene/Silicon Hybrid Solar Cell Devices**, Proceedings of X Convegno Nazionale "Materiali Nanofasici" (2015), ISBN 978-88-8080-188-7, Editor Elisabetta Agostinelli, CNR edizioni, Rome-Italy, p. 51-52 (<http://www.nanofasici.cnr.it>).

(26) Ilaria Cacciotti, Francesca Nanni, Sonia Melino (corresponding author: I. Cacciotti), **Sistemi multifunzionali a base di acido polilattico e filler naturali: proprietà termiche, meccaniche e antimicrobiche**, In: Bedini R, Pecci R, Meleo D, Meli P (Ed.). *3° Convegno Nazionale FORM. Forum On Regenerative Methods. Metodiche rigenerative: applicazioni innovative in odontostomatologia e ortopedia. Roma, 7-8 aprile 2016. Riassunti*. Roma: Istituto Superiore di Sanità; 2016 (ISTISAN Congressi 16/C1), ISSN 0393-5620.

(27) Katya Carbone, Mariano Paliotta, Ilaria Cacciotti, Laura Micheli, **Microwave-assisted green synthesis of stable silver-conjugated flavonoid nanoparticles**, In: Cubadda F, Aureli F, Raggi A, Barea Toscan MC, Mantovani A (Ed.). *Second National Conference. Nanotechnologies and nanomaterials in the food sector and their safety assessment*. Istituto Superiore di Sanità. Rome, April 29, 2016. Abstract book. Roma: Istituto Superiore di Sanità; 2016 (ISTISAN Congressi 16/C2), ISSN 0393-5620.

(28) Ilaria Cacciotti, Matteo Ciocci, Francesca Nanni, Sonia Melino (corresponding author: I. Cacciotti), **Organosulfur compounds loaded poly(lactic acid) fibrous membranes as active protection mask filter**, *Book of Abstracts 3rd International CBRNe Workshop (IW CBRNe 2016): Building a strong CBRNe Scientific Community*, ISBN 9788888748894.

(29) Ilaria Cacciotti, Matteo Ciocci, Francesca Nanni, Sonia Melino, **Membrane fibrose a base di acido polilattico e composti organosolfuri come scaffold per la rigenerazione tessutale**, In: Bedini R, Pecci R, Meleo D, Meli P (Ed.). *4° Convegno Nazionale del Forum On Regenerative Methods:Tecnologie innovative nelle metodiche di rigenerazione tessutale (FORM 2017). 11th-12th May 2017. Riassunti*. Istituto Superiore di Sanità (ISS), Rome, Italy; ISTISAN Congressi 17/C2, ISSN 0393-5620.

(d) Congress Proceedings

(1) Alessandra Bianco, Ilaria Cacciotti, Edoardo Bemporad and Laura Montanaro, **Synthesis of hydroxyapatite nanopowders**, *VIII Convegno Nazionale AIMAT*, 27 Giugno – 1 Luglio 2006, Università di Palermo, Palermo, Italy.

(2) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano,

Thermal stability and sintering behaviour of Pure and Substituted hydroxyapatite nanopowders, IX European Symposium on Thermal Analysis and Calorimetry, August 27-31 (2006), Krakow, Poland.

(3) Alessandra Bianco, Costantino Del Gaudio, Erica Di Federico, Ilaria Cacciotti, Edoardo Bemporad, Mauro Grigioni, **Non-woven fibrous composite polycaprolactone-hydroxyapatite by electrospinning**, *20th European Conference on Biomaterials*, 27 September - 1 October 2006, Cité des Congrès, Nantes, France.

(4) Alessandra Bianco, Costantino Del Gaudio, Erica Di Federico, Perla Filippini, Valentina Contruscire, Ilaria Cacciotti, Mauro Grigioni, **Electrospinning as a potential technique for the production of prosthetic substitutes for the cardiovascular system**, *Chemical Nanotechnology Talks VII "Status and Future of Nanofibers by Electrospinning"*, October 23rd-25th, 2006 DECHEMA-House, Frankfurt am Main, Germany.

(5) Alessandra Bianco, Costantino Del Gaudio, Erica Di Federico, Ilaria Cacciotti, Gualtiero Gusmano, **PCL-based scaffolds for tissue engineering**, *I Congresso Nazionale di Electrospinning*, 4-5 Giugno 2007 Milano, Italy.

(6) Ilaria Cacciotti, Alessandra Bianco, Mariangela Lombardi and Laura Montanaro, **Nanostructured silicon-substituted hydroxyapatites**, *11th Ceramics, cells and tissues, International Congress on Bioceramics*, October 2nd-5th 2007, Faenza, Italy.

(7) Ilaria Armentano, Maria Serena Dottori, Elena Fortunati, Ilaria Cacciotti, Francesca Nanni, Alessandra Bianco and Jose Maria Kenny, **Nanohybrid films based on poly ε-caprolactone**, *Winter School 2008*, Kranjska Gora, 07-09/02/2008, Slovenia.

(8) Alessandra Bianco, Ilaria Cacciotti, Francesca Nanni, Ilaria Armentano, Maria Serena Dottori, Elena Fortunati and Jose Maria Kenny, **New Nanocomposite Biomaterials based on poly ε-caprolactone (PCL)**, *4^o Simposio Internazionale su "Materiali e Compositi a base di Polimeri Funzionali Nanostrutturati"*, April 16-18 2008, Rome, Italy.

(9) Ilaria Cacciotti, Mariangela Lombardi, Alessandra Bianco, Laura Montanaro, **Si-substituted hydroxyapatite nanopowders by precipitation: synthesis, thermal stability and sintering behaviour**, *8th World Biomaterials Congress*, 28 May-01 June 2008 Amsterdam, The Nederlands.

(10) Alessandra Bianco, Erica Di Federico, Ilana Moscatelli, Ilaria Armentano, Ilaria Cacciotti, Antonella Camaioni, Luisa Campagnolo, Mariaserena Dottori, Jose Maria Kenny, Gregorio Siracusa, Gualtiero Gusmano, **Bioresorbable nanohybrid membranes for bone regeneration by electrospinning**, *8th World Biomaterials Congress*, 28 May-01 June 2008 Amsterdam, The Nederlands.

(11) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano, **Nanostructured F-substituted hydroxyapatites**, *2nd International Congress on Ceramics*, June 29th- July 4th 2008, Verona, Italy.

(12) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano, **Synthesis and characterization of Mg-substituted hydroxyapatite nanopowders**, *2nd International Congress on Ceramics*, June 29th- July 4th 2008, Verona, Italy.

(13) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Gualtiero Gusmano, **Si-substituted hydroxyapatite nanopowders by precipitation: synthesis, thermal stability and sintering behaviour**, *2nd International Congress on Ceramics*, June 29th- July 4th 2008, Verona, Italy.

(14) Alessandra Bianco, Ilaria Cacciotti, Edoardo Bemporad, Marco Sebastiani, Mariangela Lombardi, Laura Montanaro, **Sintesi per via umida di polveri nanometriche di idrossiapatite pura e variamente sostituita**, *9^o Convegno Nazionale AIMAT*, 29 Giugno-2 Luglio 2008, Piano di Sorrento, Italy.

(15) Alessandra Bianco, Erica Di Federico, Ilana Moscatelli, Ilaria Armentano, Ilaria Cacciotti, Antonella Camaioni, Luisa Campagnolo, Mariaserena Dottori, Jose Maria Kenny, Gregorio Siracusa, Gualtiero Gusmano, **Membrane nanoibride riassorbibili elettrofilate per la rigenerazione del tessuto osseo**, *9^o Convegno Nazionale AIMAT* 29 Giugno-2 Luglio 2008, Piano di Sorrento, Italy.

(16) Alessandra Bianco, Costantino Del Gaudio, Ilaria Cacciotti, **Matrici polimeriche e nanoibride per l'ingegneria tessutale ottenute mediante elettrofilatura**, *I Congresso della Società Italiana Biomateriali*, 17-19 Settembre 2008 Follonica,Grosseto, Italy.

(17) Ilaria Cacciotti and Alessandra Bianco, **Processing bioglasses of innovative compositions by means of sol-gel technique**, *12th Ceramics, cells and tissues, International Congress on Bioceramics*, May 19th-22nd 2009, Faenza, Italy.

(18) Giorgia Lehmann, Paola Palmero, Ilaria Cacciotti, Raffaella Pecci, Luisa Campagnolo, Rossella

Bedini, Antonella Camaioni, Alessandra Bianco, Gregorio Siracusa, Laura Montanaro, **Design, production and biocompatibility of nanostructured porous HAp and Si-HAp ceramics as three-dimensional scaffolds for stem cell culture and differentiation**, *12th Ceramics, cells and tissues, International Congress on Bioceramics*, May 19th-22nd 2009, Faenza, Italy.

(19) Maria Elena Fragalà, Ilaria Cacciotti, Francesca Romana Lamastra, Alessandra Bianco, Graziella Malandrino and Gualtiero Gusmano, **High Surface area core shell ZnO/TiO₂ nanofibers fabrication using electrospinning and metalorganic chemical vapour deposition approach**, *E-MRS 2009 Spring Meeting*, June 8th-12th 2009, Congress Center, Strasbourg, France.

(20) Alessandra Bianco, Francesca Romana Lamastra, Ilaria Cacciotti, Maria Elena Fragalà, Graziella Malandrino, Adolfo Speghini, Fabio Piccinelli and Gualtiero Gusmano, **Eu-doped titania nanofibers by electrospinning**, *VII Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM*, June 9th-12th 2009, Tirrenia (Pisa), Italy.

(21) Ilaria Cacciotti, Alessandra Bianco, Giuseppe Pezzotti and Gualtiero Gusmano, **Photoluminescent rare earth-doped polyvinylpyrrolidone nanofibers obtained by electrospinning**, *VII Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM*, June 9th-12th 2009, Tirrenia (Pisa), Italy.

(22) Ilaria Cacciotti, Francesca Romana Lamastra , Alessandra Bianco , Adolfo Speghini, Fabio Piccinelli, Maria Elena Fragalà, Graziella Malandrino and Gualtiero Gusmano, **Eu-doped titania nanofibers by electrospinning**, *11th Conference of the European Ceramic Society ECERS 2009* June 21st-25th 2009, Krakow, Poland.

(23) Ilaria Cacciotti, Alessandra Bianco , Giuseppe Pezzotti and Gualtiero Gusmano, **Rare earth-doped TiO₂ nanosized fibers by means of electrospinning technique**, *Abstract Book, 4th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT)*, 19th-22nd October 2009, N. Ali & R. Polini Editors, Rome, Italy: 126-127.

(24) Alessio Mezzi, Saulius Kaciulis, Ilaria Cacciotti, Alessandra Bianco, Gualtiero Gusmano, Francesca Romana Lamastra, Maria Elena Fragalà, **Structure and Composition of Electrospun Titania Nanofibres Doped with Eu**, *13th European Conference on Applications of Surface and Interface Analysis ECASIA 2009*, 18th-23rd October 2009, Antalya, Turchia.

(25) Ilaria Cacciotti, Alessandra Bianco, Mariangela Lombardi, Laura Montanaro, **Development of AP40 and RKKP bioactive glass ceramic by sol-gel process**, *SAMIC 2009*, 30th November-3rd December, Brixen (Bz), Italy.

(26) Ilaria Cacciotti and Alessandra Bianco, **Sr-substituted hydroxyapatite nanopowders: synthesis and characterization**, *SAMIC 2009*, 30th November-3rd December, Brixen (Bz).

(27) Ilaria Cacciotti, Bioceramics for bone tissue engineering: pure and substituted calcium phosphates and sol-gel derived glass-ceramics, *III Forum Nazionale Giovani Ricercatori di Scienza e Tecnologia dei Materiali*, 22nd -24th March 2010, Centro civico di arte e cultura Altinate San Gaetano Padua, Italy.

(28) Francesco D'Angelo, Ilaria Armentano, Costantino Del Gaudio, Ilaria Cacciotti, Umberto Reale, Roberto Tiribuzi, Mariaserena Dottori, Alessandra Bianco, Livia Visai, Giuliano Giorgio Cerulli, José Maria Kenny, Sabata Martino and Aldo Orlacchio, **Osteogenic Induction in human Bone Marrow Mesenchymal Stem Cells by Nanocomposite Scaffold**, *Congresso Nazionale Biomateriali (SIB)*, 24th-26th May 2010, Camogli (GE), Hotel Cenobio dei Dogi.

(29) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Antonio Ravaglioli, **Sistemi vetro-ceramici per la realizzazione di capsule per ospitare cellule per l'ingegneria dei tessuti**, *Expo Sanità, Progetto Giacobbe 6^aedizione: Biomateriali per la Medicina del Benessere*, 28th May 2010, Bologna-Italy.

(30) Ilaria Cacciotti, Alessandra Bianco, Mariangela Lombardi, Laura Montanaro, **Sol-gel synthesis and sintering behaviour of innovative bioactive glass-ceramics**, *ICCPs11-International Conference on Ceramic Processing Science*, 29th Aug. – 1st Sep. 2010, Zurich-Switzerland.

(31) Alessandra Bianco, Costantino Del Gaudio, Ilaria Cacciotti, Enrico Ercolani, Manuela Calderone, **Elettrofilatura di blend polimerici bioriassorbibili**, *X Convegno Nazionale AIMAT*, Capo Vaticano (VV), 5-8 Settembre 2010.

(32) Enrico Bernardo, Paolo Colombo, Ilaria Cacciotti, Alessandra Bianco, Rossella Bedini, Raffaella Pecci, Laura Treccani, Kurosch Rezwan, **Preparation and Characterization of Porous Wollastonite-Hydroxyapatite Bioceramics from a Preceramic Polymer Filled with Nano-particles**, *35th International Conference and Exposition on Advanced Ceramics and Composites*, Hilton Daytona Beach Resort & Ocean Center-Daytona Beach, FL, USA, Jan. 23-28, 2011.

- (33) Julietta V.Rau, Angela De Bonis, Roberto Teghil, Marco Fosca, Ilaria Cacciotti, Alessandra Bianco, Daniela Ferro, Valerio Rossi Albertini, Antonio Ravaglioli, **Bioactive glass-ceramic coatings deposited by pulsed laser deposition from sol-gel targets**, *13th Ceramics, cells and tissues, International Congress on Bioceramics: Regenerative Nanomedicine, Tissue and Genetic Engineering and the role of ceramics*, May 17-20 2011, Faenza (RA), Italy.
- (34) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Laura Montanaro, Antonella Camaioni, Giorgia Lehmann, Luca Peruzzo, Fabio Tateo and Antonio Ravaglioli, **Sol-gel derived RKKP glass-ceramics: microstructure, sintering behaviour and biological evaluation**, *13th Ceramics, cells and tissues, International Congress on Bioceramics: Regenerative Nanomedicine, Tissue and Genetic Engineering and the role of ceramics*, May 17th-20th 2011, Faenza (RA), Italy (8th Award for the best oral presentation by a young researcher).
- (35) Giorgia Lehmann, Ilaria Cacciotti, Luisa Campagnolo, Alessandra Bianco, Antonella Camaioni, **Differentiation of osteoclast precursors from human blood on pure and Si-substituted hydroxyapatites**, *13th Ceramics, cells and tissues, International Congress on Bioceramics: Regenerative Nanomedicine, Tissue and Genetic Engineering and the role of ceramics*, May 17th-20th 2011, Faenza Italy.
- (36) Antonio Ravaglioli, Alessandra Bianco, Ilaria Cacciotti, Julietta V. Rau, Fabio Tateo, Aurelio Giarretta, Luca Peruzzo, Enrica Vernè, Francesco Branda, Monica Dettin, Andrea Bagno, A. Menconi Orsini , Adriano Krajewski, Luca Giacomelli , L. Marras, Adriano Maresta , Antonella Camaioni, C. Mangano, **Biomaterials for Healthcare as in bulks, as coatings and as injectable cements**, *13th Ceramics, cells and tissues, International Congress on Bioceramics: Regenerative Nanomedicine, Tissue and Genetic Engineering and the role of ceramics*, May 17th-20th 2011, Faenza (RA),Italy.
- (37) Giampiero Montesperelli, Paolo Bagalà, Ilaria Cacciotti, Alessandra Bianco, Costantino Del Gaudio, Gualtiero Gusmano, **Sviluppo di rivestimenti self-healing su leghe di alluminio**, *Giornate Nazionali sulla Corrosione e Protezione-IX Edizione*, July 6th-8th 2011, Monte Porzio Catone (RM), Italy.
- (38) Ilaria Armentano, Elena Fortunati, Francesco D'Angelo, Aldo Orlacchio, Costantino Del Gaudio, Ilaria Cacciotti, Alessandra Bianco, Livia Visai, Sabata Martino, José Maria Kenny, **Osteogenic differentiation of multi- and pluri-potent stem cells via modulation of PLLA/d-HAp nanocomposite properties**, EUROMAT 2011, 12th-15th September 2011, Montpellier-France
- (39) Alessandra Bianco, Ilaria Cacciotti, Julietta V.Rau, Sara Laureti, Marco Fosca, Valerio Rossi Albertini, Antonio Ravaglioli, Monica Celi, Irene Cerocchi, Umberto Tarantino, **Rivestimenti bioattivi nanostrutturati di composizione innovativa a base di idrossiapatite su substrati di titanio mediante Pulsed Laser Deposition (PLD)**, 96° Congresso Nazionale Società Italiana di Ortopedia e Traumatologia (SIOT) 2011, October 1st-5th 2011, Nuovo Palazzo dei Congressi, Rimini-Italy.
- (40) Alessandra Bianco and Ilaria Cacciotti, **Electrospinning: an emerging tool to design ceramic nanostructures**, International Conference on Nanomaterials and Nanoethics (ICNNE) 2011, 1st-3rd December 2011, COMSATS Institute of Information Technology (CIIT) Campus, M. A. Jinnah Building Defence Road, Off Raiwind Road, Lahore-Pakistan.
- (41) Alessandra Bianco, Ilaria Cacciotti, Mariangela Lombardi, Giorgia Lehmann, Antonella Camaioni and Laura Montanaro, **AP40-based sol-gel derived bioactive glass-ceramics: synthesis, sintering behaviour and biological evaluation**, I.Wo.C.Mat. 2011, International Workshop on Cellular Materials: production, characterisation and applications, 16th December 2011, Castello del Valentino, Turin-Italy.
- (42) J.V. Rau, M. Fosca, A. Bianco, I. Cacciotti, S. Laureti, G. Varvaro, R. Teghil, A. De Bonis, V. Rossi Albertini, A. Latini, R. Caminiti, **Rivestimenti bioattivi nanostrutturati di composizione innovativa preparati mediante Pulsed Laser Deposition**, *Expo Sanità, Progetto Giacobbe 8^a Edition, Biomaterials for healthcare (Biomateriali per la Medicina del Benessere): How Science could fight against aging: from Tradition to Genetic Map (Come la Scienza può contrastare l'invecchiamento: dalla tradizione alla Mappa Genetica)*, 18th-19th May 2012, Bologna-Italy.
- (43) S. Martino, I. Armentano, F. D'Angelo, I. Cacciotti, R. Tiribuzi, M. Quattrocelli, C. Del Gaudio, E. Fortunati, M. Imbriani, A. Caraffa, G. G. Cerulli, L. Visai, J. M. Kenny, M. Sampaolesi, A. Bianco, A. Orlacchio, **Tuning multi/pluri-potent stem cell fate by electrospun poly(L-lactic acid)-calcium-deficient hydroxyapatite nanocomposite mats**, Congresso Nazionale Biomateriali (SIB), 18th-20th June 2012, Patria Palace Hotel, Lecce-Italy, p. 31.
- (44) Alessandra Bianco, Ilaria Cacciotti, Julietta V. Rau, Sara Laureti, Marco Fosca, Valerio Rossi Albertini, Antonio Ravaglioli, **Rivestimenti bioattivi di ultima generazione: materiali, tecniche e prospettive cliniche**, 97° Congresso Nazionale Società Italiana di Ortopedia e Traumatologia (SIOT) 2012: Lesioni capsulo-legamentose acute, le protesi dolorose, November 10th-14th 2012, Rome Marriott Park Hotel, Rome-Italy.
- (45) Francesca Nanni, Francesca Romana Lamastra, Fabio Franceschetti, Francesco Biccari, Ilaria Cacciotti, **Deposition and characterisation of IMO films by dip-coating technique**, *IX Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM*, 30th June-3rd July 2013, Bari, Italy.
- (46) Francesca Romana Lamastra, Ilaria Cacciotti, Valeria Campaniello, Francesca Nanni, **Hydrorepellent SiO₂-based coatings on glazed ceramic substrates by sol-gel technique**, *IX Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM*, 30th June-3rd July 2013, Bari, Italy.
- (47) Ilaria Cacciotti, Alessandra Bianco, **Ceramic nanostructured fibers and tubes by electrospinning technique**, *IX Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM*, 30th June-3rd July 2013, Bari, Italy.
- (48) Julietta V. Rau, Ilaria Cacciotti, Angela. De Bonis, Vladimir Komlev, Alessandro Latini, Roberto Teghil, **Fe-hydroxyapatite coatings for bone tissue engineering applications**, 12th International

Conference on Laser Ablation (COLA) 2013, October 6th-11th 2013, Ischia (Italy)

- (49) F. Arduini, A. Amine, M. Forchielli, D. Neagu, S. Cinti, G. Vellucci, I. Cacciotti, F. Nanni, G. Palleschi, D. Moscone, **Screen-printed electrodes modified with nanostructured carbon black as platform to develop sensors and biosensors**, XXIV Congresso Nazionale di Chimica Analitica, 15th-19th September 2013, Sestri Levante, Italy.
- (50) Alessandra Antonucci, Damiano Salvatori, Francesca Lamastra, Ilaria Cacciotti, Francesca Nanni, Sonia Melino, Mario De Stefano, Roberta Congestri, **Coupling biomaterials and silica nano-structures in Diatoms**, Riunione gruppo di algologia, 18th-19th October 2013, Venezia, Italy.
- (51) Ilaria Cacciotti, Julietta V. Rau, Antonella Camaioni, **CalcioFosfati e Biovetri per applicazioni in medicina rigenerativa: stato dell'arte e prospettive future**, 1° Convegno Nazionale del Forum On Regenerative Methods (FORM) 2013: Le metodiche rigenerative nel SSN: una speranza per il futuro, 28th-29th November 2013, Istituto Superiore di Sanità (ISS), Rome, Italy.
- (52) Ilaria Cacciotti, Federica Caselli, Michela Cofano, Silvia Monti, Martina Tiravia, Pierluca Galloni, **Preparazione, caratterizzazione e modellazione di macrosfera di calcio alginato rivestite con chitosano**, 1° Convegno Nazionale del Forum On Regenerative Methods (FORM) 2013: Le metodiche rigenerative nel SSN: una speranza per il futuro, 28th-29th November 2013, Istituto Superiore di Sanità (ISS), Rome, Italy.
- (53) J.V. Rau, F.R. Bertani, M. Ledda, A. De Bonis, I. Cacciotti, R. Teghil, A. Lisi, **New generation bioactive glass-ceramic materials for implant coating application in regenerative medicine**, Biophysics@Rome 2014, 22nd-23rd May 2014, CNR, Area della Ricerca di Tor Vergata, Rome, Italy.
- (54) J.V. Rau, I. Cacciotti, A. De Bonis, A. Santagata, R. Teghil, **Nanostructured doped hydroxyapatite coatings for biomedical applications**, E-MRS 2014 SPRING MEETING, 26th-30th May 2014, Congress Center - Lille, France.
- (55) Alessandra Bianco, Serena Detti, Ilaria Cacciotti, **Innovative ceramic nanostructures by means of electrospinnig technique**, 13th International Ceramics Congress CIMTEC 2014, 8th-13th June 2014, Montecatini Terme-Italy.
- (56) Francesco De Nicola, Paola Castrucci, Manuela Scarselli, Ilaria Cacciotti, Francesca Nanni, Maurizio De Crescenzi, **Single-Walled Carbon Nanotube as Hydrophobic Coatings for Glass**, Workshop "Superhydrophobicity, bubble stability, and heterogeneous nucleation", 25th-27th June 2014, Faculty of Engineering, University of Rome "Sapienza", Rome, Italy.
- (57) Ilaria Cacciotti, Elena Fortunati, Debora Puglia, José Maria Kenny, Francesca Nanni, **Morphological, thermal and mechanical characterization of polylactic acid electrospun fibers loaded with silver nanoparticles and nanocrystalline cellulose**, 8th ECNP International Conference on Nanostructured Polymers and Nanocomposites, 16th-19th September 2014, Dresden, Germany.
- (58) Ilaria Cacciotti, Francesca Romana Lamastra, Valeria Campaniello, Francesca Nanni, **Deposizione di rivestimenti idrorepellenti e trasparenti a base di silice modificata mediante areografia**, XII Convegno Nazionale AIMAT, 21st-24th September 2014, Lecce, Italy.
- (59) Ilaria Cacciotti, Manlio Valentini, Francesca Nanni, **Ternary Systems Based on PVDF, BaTiO₃ and MWCNTs: Fabrication, Characterization, Electromagnetic Simulation**, ICNAAM 2014, First Minisymposium on Mathematics in Engineering and Technology, 22nd-28th September 2014, Rodos Palace Hotel, Rhodes, Greece.
- (60) Ilaria Cacciotti, **Nanocompositi & materiali nanostrutturati: dalla ricerca alle applicazioni industriali** (INVITED), Industrial Workshop- Applicazioni Industriali di Nanomateriali: Prospettive & Criticità, 27th January 2015, University of Rome "Tor Vergata", Aula Seminari "Galileo", Rome, Italy.
- (61) Ilaria Cacciotti, **Nuovi biomateriali per applicazioni in medicina rigenerativa**, In: 2° Convegno Nazionale del Forum On Regenerative Methods (FORM) 2015: Le metodiche rigenerative nel Servizio Sanitario Nazionale (SSN): applicazioni attualmente utilizzate, 19th-20th March 2015, 'Aula Pochiari'-Istituto Superiore di Sanità (ISS), Rome, Italy.
- (62) A. Malizia, I. Cacciotti, M. Gelfusa, L.A. Poggi, J.F. Ciparisso, P.Gaudio, **The influence of dust characteristics on re-suspension : test with tungsten and data discussion**, 1st EPS Conference on Plasma Diagnostics (ECPD), 14th-17th April 2015, "Villa Mondragone", Frascati (RM), Italy.
- (63) A. Malizia, L.A. Poggi, J.F. Ciparisso, M. Gelfusa, I. Cacciotti, A. Murari, S. Pierdiluca, E. Lo Re and P.Gaudio, **Experimental campaigns and numerical simulation to test the capability of STARDUST-Upgrade diagnostics to investigate LOVA and LOCA effects on dust re-suspension**, 15th International Conference on PLASMA-FACING MATERIALS and COMPONENTS for FUSION APPLICATIONS (PFMC), Aix-en-Provence, France, 18th -22nd May 2015.
- (64) F. Arduini, S. Cinti, M. Carbone, L. Sansone, I. Cacciotti, D. Moscone, G. Palleschi, **Screen-printed electrodes modified with carbon nanomaterials: a challenge among carbon black, carbon nanotubes and graphene**, GS2015-Sensori e biosensori: stato dell'arte e nuove prospettive, Parma-Italy, 15th -17th June 2015.
- (65) I. Cacciotti, F. Nanni, **Innovative composites based on compostable polymers and natural fillers for food packaging**, X Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM , 28th June -1st July 2015, Favignana (TP), Italy.
- (66) Ilaria Cacciotti, **Innovative materials for biomedical applications** (INVITED), 5th Molecular Materials Meeting (M³) @ Singapore 2015, 3rd-5th August 2015, Resorts World™ Sentosa Convention Center, Singapore.
- (67) M. Bragaglia, M. Rinaldi, I. Cacciotti, S. Mori, F. Nanni, G. Montesperelli, **Citric acid aerospace stainless steel passivation: a green approach**, 15th CEAS (Council of European Aerospace Societies) Air

& Space Conference, 7th-11th September 2015, Delft University of Technology, The Netherlands.

- (68) M. Rinaldi, I. Cacciotti, U. Lafont, L. Pambagian, T. Ghidini, V. Canala, V. Massarelli, F. Nanni, **New green polymer composites processed by additive manufacturing for “clean space” applications**, 15th CEAS (Council of European Aerospace Societies) Air & Space Conference, 7th-11th September 2015, Delft University of Technology, The Netherlands.
- (69) Ilaria Cacciotti, **Nanostructured bioactive ceramics, glass-ceramics and composites: synthesis, characterisation and applications for bone regeneration**, "6th International Seminar on Biomaterials & Regenerative Medicine" (BIOREMED 2015) (INVITED), 17th-20th September 2015, Oradea, Romania.
- (70) Ilaria Cacciotti, Francesca Nanni, **Poly(lactic) acid fibers loaded with mesoporous silica for potential applications in the active food packaging**, ICNAAM 2015, Second Minisymposium on Mathematics in Engineering and Technology, 23rd-29th September 2015, Rodos Palace Hotel, Rhodes, Greece.
- (71) Ilaria Cacciotti, Daniele Di Giovanni, Alessandro Pergolini, Andrea Malizia, Mariachiara Carestia, Leonardo Palombi, Carlo Bellecci, Pasquale Gaudio, 'G.A.T.E': **Gap Analysis for TTX evaluation**, ICNAAM 2015, Second Minisymposium on Mathematics in Engineering and Technology, 23rd-29th September 2015, Rodos Palace Hotel, Rhodes, Greece.
- (72) Ilaria Cacciotti and Francesca Nanni, **Multifunctional composite systems based on biopolymers and natural fillers for food packaging**, 2nd bilateral Italian/Indian workshop "Nanoscale Excitations in Emergent Materials" (NEEM), Roma, 12th-14th October 2015.
- (73) M. De Crescenzi, F. De Nicola, F. Nanni, I. Cacciotti, M. Salvato, M. Scarselli, P. Castrucci, **Carbon Nanotube/Silicon and Graphene/Silicon Hybrid Solar Cell Devices**, Proceedings of X Convegno Nazionale "Materiali Nanofasici", 26-28/10/2015, Rome-Italy.
- (74) Ilaria Cacciotti, Elena Fortunati, Debora Puglia, Sonia Melino, Josè M. Kenny, Francesca Nanni, **Thermal, mechanical and antimicrobial properties of polylactic acid electrospun fibers loaded with nanocrystalline cellulose and decorated with silver nanoparticles**, 1st International Congress Advances in the Packaging Industry Product and Process, Castel dell'Ovo, Naples, Italy 19th-20th November 2015.
- (75) Fabiana Arduini, Stefano Cinti, Daniela Neagu, Marilena Carbone, Ilaria Cacciotti, Danila Moscone, Giuseppe Palleschi, **Screen-printed electrode tailored with hybrid nanocomposite carbon black/cobalt phthalocyanine as platform to develop a butyrylcholinesterase biosensor for paraoxon detection**, Seventh International Workshop on "Biosensors for food safety and environmental monitoring", Erfoud-Morocco, 19th-21st November, 2015.
- (76) Fabiana Arduini, Stefano Cinti, Daniela Neagu, Ilaria Cacciotti, Danila Moscone, Giuseppe Palleschi, **A Butyrylcholinesterase Disposable Biosensor Based On Screen-Printed Electrode Modified With Carbon Black And Cobalt Phthalocyanine**, TERZO CONVEGNO NAZIONALE SENSORI (CNS 2016), Sala Convegni CNR, Rome, Italy, 23rd - 25th February 2016.
- (78) Ilaria Cacciotti, **"Biomimetic systems as promising platforms for bone tissue regeneration: nanostructured bioactive ceramics, glass-ceramics and composites"** (INVITED), EMN Meeting 2016, 4th-7th April 2016, Phuket-Thailandia.
- (79) Ilaria Cacciotti, Francesca Nanni, Sonia Melino, **Sistemi multifunzionali a base di acido polilattico e filler naturali: proprietà termiche, meccaniche e antimicrobiche**, In: 3° Convegno Nazionale del Forum On Regenerative Methods (FORM) 2016: Metodiche rigenerative: Applicazioni innovative in odontostomatologia e ortopedia, 7th-8th April 2016, 'Aula Pocchiari'-Istituto Superiore di Sanità (ISS), Rome, Italy.
- (80) Katya Carbone, Mariano Paliotta, Ilaria Cacciotti, Laura Micheli, **Microwave-assisted green synthesis of stable silver-conjugated flavonoid nanoparticles**, Second national conference on nanotechnologies and nanomaterials in the food sector and their safety assessment, 29th April 2016, 'Aula Pocchiari'-Istituto Superiore di Sanità (ISS), Rome, Italy, Istituto Superiore di Sanità.
- (81) Chronopoulou, L.; Nocca, G.; Amalfitano, A.; Arcovito, A.; Cacciotti, I.; Toumia, Y.; Paradossi, G.; Palocci, C., **Sistemi compositi a base di idrogeli peptidici per la rigenerazione del tessuto osseo**, VII Convegno Giovani: Le frontiere della Chimica nel nuovo millennio, 14-15 Giugno 2016, Aula La Ginestra-Edificio di Chimica "Stanislao Cannizzaro", Rome-Italy.
- (82) Ilaria Cacciotti, Matteo Ciocci, Francesca Nanni, Sonia Melino, **Organosulfur compounds loaded poly(lactic acid) fibrous mats for tissue regeneration**, 5^o Congress GNB (National Bioengineering Group) 2016, 20th-22nd June 2016, University of Naples "Federico II", Naples-Italy.
- (83) M. Scarselli, F. Limosani, M. Passacantando, F. D'Orazio, I. Cacciotti, F. Nanni, E. Gautron, M. De Crescenzi, **Structural properties and applications of carbon spheres**, 6th International Conference on NANOSTructures and nanomaterials SElf-Assembly (NANOSEA 2016), July 3rd-8th, 2016 - Giardini Naxos (ME), Italy.
- (84) P. Castrucci, F. De Nicola, M. Reali, M. Salvato, I. Cacciotti, F. Nanni, F. De Matteis, P. Proposito, M. Crivellari, M. Boscardin, M. Scarselli, M. De Crescenzi, **Carbon nanotubes/silicon hybrid heterojunctions for solar cell applications**, 6th International Conference on NANOSTructures and nanomaterials SElf-Assembly (NANOSEA 2016), July 3rd-8th, 2016 - Giardini Naxos (ME), Italy.
- (85) Ciocci M, Cacciotti I and Melino S, **3D silk-fibroin hydrogel scaffolds functionalized with protein-microspheres for cardiac tissue repair**, National Congress SIB (Società Italiana dei Biomateriali) 2016, 13th-15th July 2016, Hotel Continental Terme, Ischia Porto (Na)-Italy.
- (86) Ilaria Cacciotti, Matteo Ciocci, Francesca Nanni, Sonia Melino, **Organosulfur compounds loaded poly(lactic acid) fibrous mats for tissue regeneration**, National Congress SIB (Società Italiana dei Biomateriali) 2016, 13th-15th July 2016, Hotel Continental Terme, Ischia Porto (Na)-Italy.
- (87) Ilaria Cacciotti, Sonia Melino, Francesca Nanni, **Compostable polymers and natural fillers based**

films as sustainable systems for food packaging applications, XIII Convegno Nazionale AIMAT 2016, 13th-15th July 2016, Hotel Continental Terme, Ischia Porto (Na)-Italy.

- (88) A. Malizia, I. Cacciotti, M. Gelfusa, A. Murari, L.A. Poggi, J.F. Ciparisso and P.Gaudio, **The influence of dust characteristics on re-suspension: test with tungsten and data discussion**, 29th edition of the Symposium on Fusion Technology (SOFT 2016), 5th-9th September 2016, Prague, Czech Republic.
- (89) Laura Chronopoulou, Simona Sennato, Giuseppina Nocca, Adriana Amalfitano, Yosra Toumia, Barbara Cerroni, Alessandro Arcovito, Ilaria Cacciotti, Federico Bordi, Gaio Paradossi, Cleofe Palocci, **Injectable peptidic hydrogels for bone tissue repair and regeneration**, 30th Conference of the European Colloid and Interface Society (ECIS 2016), 4th-9th September 2016, University of Rome "La Sapienza" Rome-Italy.
- (90) Katya Carbone, Mariano Paliotta, Ilaria Cacciotti, Laura Micheli, **Fruit processing by-products as potential bio-factories for green synthesis of metallic nanoparticles**, The International Congress on Green Extraction of Natural Products (GENP) (2016), II Edition, 31st May-1st June 2016, Turin-Italy.
- (91) Laura Chronopoulou, Giuseppina Nocca, Adriana Amalfitano, Alessandro Arcovito, Simona Sennato, Federico Bordi, Ilaria Cacciotti, Cleofe Palocci, **Biosynthesis of injectable gelling peptides for applications in bone tissue regeneration**, Nanomedicine Viterbo 2016, 21st-23rd September 2016, University of TusciaViterbo, Italia.
- (92) I. Cacciotti, S. Melino, F. Nanni, **Ecosustainable systems based on compostable polymer and natural fillers for food packaging applications**, IX ECNP International Conference on Nanostructured Polymers and Nanocomposites (ECNP 2016), 18th-21st September 2016, Rome, Italy.
- (93) Ilaria Cacciotti, Stefano Mori, Francesca Nanni, **Composite systems based on polylactic acid and natural fillers for food packaging**, 2nd International Scientific Conference Science of the Future, 20th-23rd September 2016, Kazan.
- (94) I.Cacciotti, F.R.Lamastra, F.Nanni, **GnP coated electrospun natural rubber fibers by means of electrospinning technique**, The International Rubber Conference (IRC) 2016, 24th-28th October 2016, Kitakyushu, Japan.
- (95) Ilaria Cacciotti, **Biopolymers based multifunctional composite systems by electrospinning technique**, International Conference on Sustainable Bioplastics: A Genuine Alternative", 10th-11th November 2016, Alicante, Spain. (INVITED)
- (96) Ilaria Cacciotti, Matteo Ciocci, Francesca Nanni, Sonia Melino, **Organosulfur compounds loaded poly(lactic acid) fibrous membranes as active protection mask filter**, Book of Abstracts 3rd International CBRNe Workshop (IW CBRNe 2016): Building a strong CBRNe Scientific Community, 25th November 2016, Villa Mondragone, Frascati (Rome), Italy.
- (97) Ilaria Cacciotti, Matteo Ciocci, Francesca Nanni, Sonia Melino, **Membrane fibrose a base di acido polilattico e composti organosolfuri come scaffold per la rigenerazione tessutale**, 4^o Convegno Nazionale del Forum On Regenerative Methods:Tecnologie innovative nelle metodiche di rigenerazione tessutale (FORM 2017), 11th-12th May 2017, Istituto Superiore di Sanità (ISS), Rome, Italy.
- (98) L. Burratti, M. Casalboni, F. De Matteis, R. Pizzoferrato, I. Cacciotti, P. Proposito, **Ethanol sensor based on self-assembled polystyrene photonic crystal**, Biophysics Rome 2017, 18-19 May 2017, Aula Convegni CNR, Piazzale Aldo Moro, Rome-Italy.
- (99) Ilaria Cacciotti, Leonardo Duranti, Francesca Nanni, **Biocomposites based on poly(lactide) and agri-food waste derived calcium carbonate**, XIV Convegno Nazionale AIMAT 2017, 12th-15th July 2017, Hotel Continental Terme, Ischia Porto (Na)-Italy.
- (100) Ilaria Cacciotti, Elena Fortunati, Debora Puglia, José Maria Kenny, Francesca Nanni, **Polylatic acid fibrous mats loaded with nanocrystalline cellulose and decorated with silver nanoparticles by electrospinning technique**, XI Convegno Nazionale sulla Scienza e Tecnologia dei Materiali INSTM, 12th-15th July 2017, Hotel Continental Terme, Ischia Porto (Na)-Italy.
- (101) F.R. Lamastra, M.L. Grilli, G. Leahu, A. Belardini, R. Li Voti, C. Sibilia, D. Salvatori, I. Cacciotti, F. Nanni, **Photoacoustic spectroscopy of diatom frustules decorated with zinc oxide nanoparticles**, 19th International Conference on Photoacoustic and Photothermal Phenomena, 16-20 July 2017, Bilbao.
- (102) Matteo Ciocci, Ilaria Cacciotti, Emilia Di Giovanni and Sonia Melino, **Exploring 3D protein hydrogel scaffolds: from use of fibrous proteins to protein microspheres for driving the fate of human progenitor cells**, ESB 2017, 4th-8th September 2017, Athens-Greece.
- (103) Matteo Ciocci, Ilaria Cacciotti, Emilia Di Giovanni, Francesca Nanni, Sonia Melino, **H₂S-Releasing Nanofibers for improving the therapeutic effectiveness of Progenitor Stem Cells**, ESB 2017, 4th-8th September 2017, Athens-Greece.
- (104) G. Nocca, L. Chronopoulou, C. Palocci, I. Cacciotti, A. Amalfitano, C. Callà, M. Cordaro, M. Cantiani, A. Sgambato, D. Lucchetti, A. Boninsegna, A. Arcovito, **Drug Delivery System Affects 18-β-Glycyrrhetic Acid Cytotoxicity On OSCC**, CED-IADR 2017 (An international multi-disciplinary research meeting hosted by the Continental European & Scandinavian divisions (CED-IADR/NOF) of the International Association for Dental Research (IADR)), 21st-23rd September 2017, Vienna-Austria.
- (105) Ilaria Cacciotti, "Electrospun fibrous mats as promising platforms for regenerative medicine", International Seminar on Biomaterials and Regenerative Medicine - BIOREMED 2017 - Todays research for tomorrow medicine, 05th -07th October 2017, Victor Babeș University for Medicine and Pharmacy Timișoara, Timișoara-România.
- (106) Ilaria Campioni, Nikhil Gupta, Ilaria Cacciotti, **3D printing in maxillofacial surgery: assessment to print mandibular fixation plates**, Materials Science & Technology (MS&T 2017), 8th-12th October 2017, Pennsylvania, USA.

- (107) Ilaria Cacciotti, "Innovative bioactive ceramics, glass-ceramics and composites for bone regeneration", *International Conference TISSUE REGENERATION: ADVANCED CERAMICS AND COMPOSITES (TRACE)*, 19th -20th October 2017, Palazzo della Meridiana-Genova, Italy.
- (108) Emilia Di Giovanni, Matteo Ciocci, Ilaria Cacciotti, Sonia Melino, **SLOW-RELEASING HYDROGEN SULFIDE DONORS: INNOVATIVE TOOLS FOR STEM CELL BASED TISSUE REPAIR AND REGENERATION**, Regeneration, 16th -18th November 2017, Milan, Italy.