

PERSONAL INFORMATION **Daniele Passeri**

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EDUCATION AND TRAINING

- 2003 – 2006 **PhD in Electromagnetism - Thesis Title: *Tecniche non distruttive di caratterizzazione meccanica ed elettromeccanica di materiali dalla scala macroscopica a quella nanoscopica***
SAPIENZA University of Rome, Italy (graduated on 06 September 2007)
- 2004 **Postgraduate Summer School**
X Scuola Nazionale di Scienza dei Materiali: I Course *Fondamenti della scienza dei materiali* and II Course *Nanomeccanica e tribologia*, Sestri Levante (Genova, Italy), 27 September - 8 October 2004
- 2004 **Postgraduate Summer School**
International School of Physics 'Enrico Fermi' 160-th Course: *From nanostructures to nanosensing applications*, Varenna (Lecco, Italy), 20-30 July 2004
- 2003 **Postgraduate Summer School**
International School of Quantum Electronics 39-th Course: *Microresonators as Building Blocks for VLSI Photonics*, Erice (Trapani, Italy), 18-25 October 2003
- 1997 – 2003 **Master of Science (corresponding to M.Sc.+B.Sc.) in Electronic Engineering - Thesis Title: *Realizzazione di un apparato sperimentale di misura di generazione di seconda armonica ottica***
SAPIENZA University of Rome, Italy (graduated with top grade 110/110 *cum laude* on 29 September 2003)
- 1997 **High school leaving qualification in scientific studies**
Liceo Scientifico Statale 'Aristotele', Rome, Italy (graduated with top grade 60/60)

WORK EXPERIENCE

- 2007 – today **Postdoctoral Research Fellow**
Department of Basic and Applied Sciences for Engineering (formerly Department of Energetics), SAPIENZA University of Rome (Italy)
Responsible for and researcher at the Scanning Probe Microscopy Laboratory
Sector Nanotechnology, nanomaterials and nano-characterizations
PROJECTS:
- November 2017 – October 2018 *Sviluppo della tecnica scanning Kelvin probe microscopy per la mappatura su scala nanometrica di work function e densità di portatori in materiali per applicazioni avanzate (L. 240/2010)*
- November 2016 – October 2017 *Progettazione, realizzazione e applicazione di una metodologia sperimentale basata su microscopia a scansione di sonda per la caratterizzazione magnetica quantitativa di nanomateriali (L. 240/2010)*
- October 2015 – September 2016 *Applicazione di tecniche basate su microscopia a scansione di sonda per la rivelazione di nanomateriali in matrici polimeriche e biologiche (L. 240/2010)*
- April 2014 – September 2015 *Sviluppo di tecniche basate su microscopia a scansione di sonda per la rivelazione di nanomateriali in matrici polimeriche e biologiche (L. 240/2010)*
- April 2013 – March 2014 *Microscopie a scansione di sonda di materiali per applicazioni biotecnologiche e biomedicali (L. 240/2010)*

- April 2010 – March 2013 *Caratterizzazione meccanica di materiali polimerici compositi nanostrutturati mediante microscopia acustica a forza atomica ed altre tecniche basate su microscopia a scansione di sonda* (L. 449/1997)
- April 2009 – March 2010 *Sviluppo, caratterizzazione e applicazioni di dispositivi e materiali nanostrutturati* (L. 449/1997)
- April 2007 – March 2009 *Sviluppo e applicazione della tecnica AFAM (Atomic Force Acoustic Microscopy) per la realizzazione di mappe elastiche di materiali nanostrutturati* (L. 449/1997)
- December 2006 – January 2007 **Fixed-term contract employee**
Department of Basic and Applied Sciences for Engineering (formerly Department of Energetics), SAPIENZA University of Rome (Italy)
Researcher at the Scanning Probe Microscopy Laboratory
Sector Nanotechnology, nanomaterials and nano-characterizations
PROJECT:
Caratterizzazione mediante la tecnica AFAM (microscopia acustica a forza atomica) di materiali nanostrutturati a base carbonio

HONORS AND AWARDS

- July 2018 **National Academic Qualification as Full Professor**
Qualified according to the National Academic Qualification System as Full Professor
Abilitazione Scientifica Nazionale (ASN) - Settore concorsuale 02/B1
Fisica Sperimentale della Materia - Fascia I (Bando D.D. 1532/2016)
Validity: 26 July 2018 - 26 July 2024.
- April 2017 **National Academic Qualification as Associate Professor**
Qualified according to the National Academic Qualification System as Associate Professor
Abilitazione Scientifica Nazionale (ASN) - Settore concorsuale 02/B1
Fisica Sperimentale della Materia - Fascia II (Bando D.D. 1532/2016)
Validity: 12 April 2017 - 12 April 2023.
- 2017 **Certified Sentinel of Science Award Recipient**
Awarded by Publons Board as one of the top 10 per cent of researchers contributing to the peer review in the field of Physics and Astronomy in 2016
- July 2016 – today **Chairman**
Appointed Chairman of NanoShare s.r.l. (<http://www.nanoshare.eu/home.html>).
- February 2016 – June 2016 **Chief Executive Officer (CEO)**
Appointed CEO of NanoShare s.r.l. (<http://www.nanoshare.eu/home.html>).
- 2015 **Award of research project contract**
Award by European Food Safety Authority (EFSA) call OC/EFSA/AMU/2014/01 - *Generating, collecting, collating, synthesising and analysing evidence supporting preparatory work for evidence-based Scientific Assessment in EFSA - LOT 2: Chemical/toxicological - Sub-domain 2.6: Nanomaterials.*
CASE STUDY: *Case-study on synthetic amorphous silica (SAS), SiO₂ the food additive E551.*
- 2012 **Award of research funding**
Research funding programme *AVVIO alla RICERCA 2012* granted by SAPIENZA University of Rome, Italy.

PROJECT: *Imaging of carbon-based nanomaterials in biological systems by torsional harmonic atomic force microscopy and atomic force acoustic microscopy* (Prot. C26N12XAHF).

FUNDS: 2000 Euro.

November 2017 – October 2018 **Fellowship**
Fellowship granted by Department of Basic and Applied Sciences for Engineering, SAPIENZA University of Rome, Italy (Bando Dipartimento SBAI n. 3/2017 published on 14 February 2017).

November 2016 – October 2017 **Fellowship**
Fellowship granted by Department of Basic and Applied Sciences for Engineering, SAPIENZA University of Rome, Italy (Bando Dipartimento SBAI n. 7/2016 published on 26 April 2016).

October 2015 – September 2016 **Fellowship**
Fellowship granted by Department of Basic and Applied Sciences for Engineering, SAPIENZA University of Rome, Italy (Bando Dipartimento SBAI n. 4/2015 published on 27 February 2015).

April 2014 – March 2015 **Fellowship**
Fellowship granted by Department of Basic and Applied Sciences for Engineering, SAPIENZA University of Rome, Italy (Bando Dipartimento SBAI n. 6/2013 published on 01 July 2013).

April 2009 – March 2010 **Fellowship**
Fellowship granted by *Consorzio Nazionale Interuniversitario per le Scienze Fisiche della Materia (CNISM)*, CNISM Research Unit at SAPIENZA University of Rome, Italy (Bando Nazionale CNISM published on 04 February 2009).

November 2003 – October 2006 **Scholarship**
Full scholarship for attending the PhD course in Electromagnetism granted by SAPIENZA University of Rome, Italy, after having passed the competitive entrance examination.

2001 **Grant**
Grant for technical assistance in the *Didactic Laboratory of Optics*, Department of Basic and Applied Sciences for Engineering, SAPIENZA University of Rome, Italy.

2001 **Grant**
Grant for didactic assistance, Department of Electronic Engineering, SAPIENZA University of Rome, Italy.

2012 – today **Representative of the Postdoctoral Research Fellows**
Appointed Representative of the Postdoctoral Research Fellow in the Council of Department of Basic and Applied Sciences for Engineering, SAPIENZA University of Rome, Italy.

TEACHING ACTIVITY

2007 – today **Courses**
Faculty of Civil and Industrial Engineering, SAPIENZA University of Rome (Italy)

2017 – 2018 *Electron microscopies and related techniques* (3 CFU - co-professor, in English), degree course in Nanotechnology Engineering.

- 2016 – 2017 *Electron microscopies and related techniques* (3 CFU - co-professor, in English), degree course in Nanotechnology Engineering.
- 2015 – 2016 *Fisica I* (3 CFU - co-professor), degree course in Mechanical Engineering.
- 2014 – 2015 *Fisica Generale I* (3 CFU - co-professor), degree courses in Civil and Industrial Engineering (branch of Latina).
- 2011 – 2012 *Laboratorio Sperimentale di Fisica* (3 CFU - co-professor), degree course in Mechanical Engineering.
- 2010 – 2011 *Fisica II* (9 CFU - adjunct professor), degree course in Mechanical Engineering.
- 2009 – 2010 *Fisica* (Modulo II - Termodinamica ed Elettromagnetismo) (6 CFU - co-professor), degree course in Civil Engineering.
- 2008 – 2009 *Laboratorio Sperimentale di Fisica* (3 CFU - adjunct professor), degree course in Mechanical Engineering.
- 2007 – 2008 *Laboratorio Didattico e Storia della Fisica* (4 CFU - adjunct professor), degree course in Mechanical Engineering.
- 2008 – today **Lectures and seminars**
- 2008 – today Seminars *Microscopie a scansione di sonda* yearly taught in the course of *Microscopie e Tecniche di Nanocaratterizzazione* taught by prof. Marco Rossi, degree course in Industrial Nanotechnologies Engineering, Faculty of Civil and Industrial Engineering, SAPIENZA University of Rome (Italy).
- 2008 – 2010 Seminars *Ottica geometrica e ottica di Fresnel* yearly taught in the course of *Microscopie e Tecniche di Nanocaratterizzazione* taught by prof. Marco Rossi, degree course in Industrial Nanotechnologies Engineering, Faculty of Civil and Industrial Engineering, SAPIENZA University of Rome (Italy).
- 2009 Invited lecture *Mechanical characterization at nanoscale: atomic force acoustic microscopy at 1-st SPM Civen School - Industrial applications of scanning probe microscopy*, Venice (Italy), 5 May 2009.
- 2004 – today **Tutor activity**
Faculty of Civil and Industrial Engineering, SAPIENZA University of Rome (Italy)
- 2015 – 2016 Laboratorio Sperimentale di Fisica (prof. Marco Rossi), degree course in Mechanical Engineering.
- 2014 – 2015 Laboratorio Sperimentale di Fisica (prof. Marco Rossi), degree course in Mechanical Engineering.
- 2013 – 2014 Laboratorio Sperimentale di Fisica (prof. Marco Rossi), degree course in Mechanical Engineering.
- 2009 – 2010 Fisica I (prof. Paolo Postorino), degree course in Safety and Protection Engineering.
- 2009 – 2010 Fisica Generale I (profs. Andrea Bettucci and Marco Rossi), degree course in Mechanical Engineering.
- 2008 – 2009 Fisica Generale I (profs. Andrea Bettucci and Marco Rossi), degree course in Mechanical Engineering.
- 2007 – 2008 Fisica Generale I (prof. Marco Rossi), degree course in Mechanical Engineering.
- 2007 – 2008 Fisica Generale III (prof. Adriano Alippi), degree course in Clinical Engineering.
- 2006 – 2007 Fisica Generale (prof. Andrea Bettucci), degree course in Electric-Energetic Engineering.
- 2006 – 2007 Fisica Generale I (prof. Marco Rossi), degree course in Mechanical Engineering.
- 2006 – 2007 Fisica Generale III (prof. Adriano Alippi), degree course in Clinical Engineering.
- 2005 – 2006 Fisica Generale (prof. Andrea Bettucci), degree course in Electric-Energetic Engineering.
- 2005 – 2006 Fisica Generale I (prof. Marco Rossi), degree course in Mechanical Engineering.

- 2005 – 2006 Fisica Generale II and Fisica Generale III (prof. Adriano Alippi), degree course in Clinical Engineering.
- 2004 – 2005 Fisica Generale I (prof. Marco Rossi), degree course in Mechanical Engineering.
- 2004 – 2005 Fisica Generale II (prof. Adriano Alippi), degree course in Clinical Engineering.

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English ⁽¹⁾	B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

- ⁽¹⁾ Exam for the level **B2** (ESOL Certificate) passed on 16 July 2013 with the mark 93/100
 Exam for the level **B1+** (ESOL Certificate) passed on 28 January 2012 with the mark 92/100

Computer skills Good command of Matlab, Labview, other software for data analysis.

Other skills Opera singer (tenor).

Cantor in the choirs of *Cappella Giulia* and of the Vicariate of the Papal Basilica of St. Peter in the Vatican and *Cappella Pia Lateranense* of the Papal Archbasilica of St. John Lateran.
 Member of or collaborator with different choruses committed with the execution of concerts of both sacred and profane, from medieval to contemporary vocal music, from lyric to symphonic and opera.

Driving licence B

SCIENTIFIC INFORMATION

Scientific skills

Scanning probe microscopy (SPM) techniques: atomic force microscopy (AFM) and scanning tunneling microscopy (STM).
 SPM-based techniques for different functional characterizations of materials at the nanometer scale. In particular: atomic force acoustic microscopy, AFM indentation, torsional harmonics AFM for mechanical characterizations; magnetic force microscopy (MFM) for magnetic characterizations. Scanning capacitance microscopy, electric force microscopy, scanning Kelvin probe microscopy, conductive AFM for electric characterizations. Piezoelectric force microscopy and interferometric methods for piezoelectric characterizations. Thermoacoustic atomic force microscopy for the characterizations of the thermoacoustic emissions.

Research interests

My research interests are mainly focused on study of nanomaterials, nanosystems and nanodevices using scanning probe microscopy (SPM) techniques, in particular atomic force microscopy (AFM) and scanning tunneling microscopy (STM). Moreover, I am interested in the development of SPM-based techniques for different functional characterizations of materials at the nanometer scale. Since the beginning of my PhD in 2003, I have been interested in nanomechanical characterizations (also in temperature) using the combination of AFM and ultrasounds-based methods, as well as piezoelectric characterizations using AFM and interferometric techniques. Then, I completed the set of mechanical characterization methods with static and dynamic indentation by AFM. In recent years, my interests have been broadened including magnetic, electric, and thermoacoustic methods by AFM.

Bibliometric / scientometric data

The research activities led to the realization of more than 80 scientific papers on international peer reviewed journals and books chapters, total number of citation of more than 800, and h-index of 17. The research activity has also produced more than 70 oral or poster communications at international conferences.

 ORAL PRESENTATIONS

14. *Le piattaforme di Microscopia a Scansione di Sonda. Oltre la morfologia: nanometrologia e tanto altro*, oral contribution at *I primi 5 anni del Laboratorio di Nanotecnologie e Nanoscienze del CNIS*, Rome (Italy), 5 April 2017.
13. *Perspectives on quantitative nanomagnetometry with magnetic force microscopy*, oral contribution at *Materials 2016*, Catania (Italy), 15 December 2016.
12. *Nanomechanical characterizations with contact resonance atomic force microscopy*, oral contribution at *StSPM'16*, Bologna (Italy), 21 October 2016 (Book of Abstracts p. 44).
11. *Introduction to scanning probe microscopies*, invited tutorial at *NanoInnovation 2016*, Rome (Italy), 20 September 2016.
10. *Removing electrostatic artifacts: towards truly quantitative MFM*, invited oral contribution at *AFMMeeting 2016: Il Incontro Utenti Italiani di Microscopia a Forza Atomica (AFM)*, Rome (Italy), 24 February 2016.
9. *AFM techniques for nanomechanical characterization of thin coatings*, invited oral contribution at *TMS 2015*, Orlando (Florida USA), 17 March 2015.
8. *Atomic force microscopy: a tool for functional characterizations at the nanoscale*, invited tutorial at *NanoForum 2014*, Rome (Italy), 22 September 2014.
7. *Nanomechanical characterization of soft materials and nanocomposites by atomic force microscopy*, oral contribution at *The 4th International Symposium on Surface and Interface of Biomaterials (ISSIB) 2013*, Rome (Italy), 27 September 2013.
6. *Nanotechnologies and atomic force microscopy techniques for functional characterizations*, invited tutorial at *NanoForum 2013*, Rome (Italy), 18 September 2013.
5. *Scanning probe microscopy techniques for mechanical characterization at nanoscale*, oral contribution at *NanoForum 2012*, Rome (Italy), 25 September 2012.
4. *Characterization of polyaniline-detonation nanodiamond nanocomposite fibers by atomic force microscopy based techniques*, oral contribution at *ICNMMCS 2012*, Turin (Italy), 19 June 2012.
3. *Microscopia di sonda per misure meccaniche su nanoscala*, invited oral contribution at *XXVIII Giornata della Misurazione*, Rome (Italy), 15 June 2009.
2. *Atomic force acoustic microscopy characterization of carbon-based materials*, oral contribution at *2007 ICU Wien*, Wien (Austria), 12 April 2007 (Digest p. 218).
1. *Local indentation modulus characterization via two contact resonance frequencies atomic force acoustic microscopy*, oral contribution at *E-MRS IUMRS ICEM 2006 Spring Meeting*, Nice (France), 1 June 2006 (Digest p. F11).

 PUBLICATIONS

As Editor Single volumes, books, and journals special issues:

5. *NANOINNOVATION 2017*, M. Rossi, L. Dini, **D. Passeri**, M. Vittori Antisari (Eds.), AIP Conf. Proc. 1990 (2018).
[ISBN: 978-0-7354-1706-9]
4. *NANOINNOVATION 2016*, M. Rossi, L. Dini, **D. Passeri**, M. Vittori Antisari (Eds.), AIP Conf. Proc. 1873 (2017).
[ISBN: 978-0-7354-1553-9]
3. *NanofItaly 2015*, M. Rossi, L. Dini, **D. Passeri**, M.L. Terranova, M. Vittori Antisari (Eds.), AIP Conf. Proc. 1749 (2016).
[ISBN: 978-0-7354-1406-8]
2. *NANOFORUM 2014*, M. Rossi, L. Dini, **D. Passeri**, M.L. Terranova (Eds.), AIP Conf. Proc. 1667 (2015).
[ISBN: 978-0-7354-1314-6]
1. *Acoustic scanning probe microscopy*, F. Marinello, **D. Passeri**, E. Savio (Eds.), Springer Berlin Heidelberg (2013).
[ISBN: 978-3-642-27493-0]

As Author Articles and conference papers in peer-reviewed journals:

56. G. Mauriello, A. La Stora, **D. Passeri**, F. Marinello, *Atomic Force Microscopy techniques to investigate activated food packaging materials*, Trends Food Sci. Tech. (in press).
[DOI:] - IF = 6.609 (2017)
55. L. Angeloni, M. Reggente, **D. Passeri**, M. Natali, M. Rossi, *Identification of Nanoparticles and Nanosystems in Biological Matrices with Scanning Probe Microscopy*, WIREs Nanomed. Nanobiotechnol. (published online, 2018).
[DOI: 10.1002/wnan.1521] - IF = 6.35 (2017)

54. J. Scifo, D. Alesini, M.P. Anania, M. Bellaveglia, S. Bellucci, A. Biagioni, F. Bisesto, F. Cardelli, E. Chiadroni, A. Cianchi, G. Costa, D. Di Giovenale, G. Di Pirro, R. Di Raddo, D.H. Dowell, M. Ferrario, A. Giribono, A. Lorusso, F. Micciulla, A. Mostacci, **D. Passeri**, A. Perrone, L. Piersanti, R. Pompili, V. Shpakov, A. Stella, M. Trovò, F. Villa, *Nano-machining, surface analysis and emittance measurements of a copper photocathode at SPARC LAB*, Nucl. Instrum. Meth. A (published online, 2018).
[DOI: 10.1016/j.nima.2018.01.041] - IF = 1.336 (2017)
53. F. Rinaldi, P.N. Hanieh, L.K.N. Chan, L. Angeloni, **D. Passeri**, M. Rossi, J.T.-W. Wang, A. Imbriano, M. Carafa, C. Marianecchi, *Chitosan glutamate-coated niosomes: a proposal for nose-to-brain delivery*, *Pharmaceutics* 10, Article Number: 38, pp. 1-16 (2018).
[DOI: 10.3390/pharmaceutics10020038] - IF = 3.746 (2017)
52. M. Reggente, P. Masson, C. Dollinger, H. Palkowski, S. Zafeiratos, L. Jacomine, **D. Passeri**, M. Rossi, N.E. Vrana, G. Pourroy, A. Carradò, *A novel alkali-activation of titanium substrates to grow thick and covalently bound PMMA layers*, *ACS Appl. Mater. Interfaces* 10, pp. 5967-5977 (2018).
[DOI: 10.1021/acsami.7b17008] - IF = 8.097 (2017) - Corresponding Author
51. L. Angeloni, **D. Passeri**, S. Corsetti, D. Peddis, D. Mantovani, M. Rossi, *Single nanoparticles magnetization curves by controlled tip magnetization magnetic force microscopy*, *Nanoscale* 9, pp. 18000-18011 (2017).
[DOI: 10.1039/c7nr05742c] - IF = 7.233 - Corresponding Author
50. L. Smeraglia, A. Bettucci, A. Billi, E. Carminati, A. Cavallo, G. Di Toro, M. Natali, **D. Passeri**, M. Rossi, E. Spagnuolo, *Microstructural evidence for seismic and aseismic slip along clay-bearing, carbonate faults*, *J. Geophys. Res. Solid Earth* 122, pp. 3895-3915 (2017).
[DOI: 10.1002/2017JB014042] - IF = 3.350
49. M. Reggente, M. Natali, **D. Passeri**, M. Lucci, I. Davoli, G. Pourroy, P. Masson, H. Palkowski, U. Hangen, A. Carradò, M. Rossi, *Multiscale mechanical characterization of hybrid Ti/PMMA layered materials*, *Colloid. Surface. A* 532, pp. 244-251 (2017).
[DOI: 10.1016/j.colsurfa.2017.05.011] - IF = 2.829 - Corresponding Author
48. M. Reggente, **D. Passeri**, L. Angeloni, F.A. Scaramuzza, M. Barteri, F. De Angelis, I. Persiconi, M.E. De Stefano, M. Rossi, *Detection of stiff nanoparticles within cellular structures by contact resonance atomic force microscopy subsurface nanomechanical imaging*, *Nanoscale* 9, pp. 5671-5676 (2017).
[DOI: 10.1039/c7nr01111c] - IF = 7.233 - Corresponding Author
47. A. Lucia, O.A. Cacioppo, E. Iulianella, L. Latessa, G. Moccia, **D. Passeri**, M. Rossi, *Capability of tip-enhanced Raman spectroscopy about nanoscale analysis of strained silicon for semiconductor devices production*, *Appl. Phys. Lett.* 110, Article Number: 103105, pp. 1-5 (2017).
[DOI: 10.1063/1.4978261] - IF = 3.495
46. S. Irrera, S.E. Ruiz-Hernandez, M. Reggente, **D. Passeri**, M. Natali, F. Gala, G. Zollo, M. Rossi, G. Portalone, *Self-assembly of calcium salt of the new DNA base 5-carboxyl-cytosine*, *Appl. Surf. Sci.* 407, pp. 297-306 (2017).
[DOI: 10.1016/j.apsusc.2017.02.171] - IF = 4.439 - Corresponding Author
45. M. Angjellari, E. Tamburri, L. Montaina, M. Natali, **D. Passeri**, M. Rossi, M.L. Terranova, *Beyond the concepts of nanocomposite and 3D printing: PVA and nanodiamonds for layer-by-layer additive manufacturing*, *Mater. Design* 119, pp. 12-21 (2017).
[DOI: 10.1016/j.matdes.2017.01.051] - IF = 4.525
44. S. Gay, S. Orlanducci, **D. Passeri**, M. Rossi, M.L. Terranova, *Nanoshaping field emitters from glassy carbon sheets: a new functionality induced by H-plasma etching*, *Phys. Chem. Chem. Phys.* 18, pp. 25364-25372 (2016).
[DOI: 10.1039/C6CP03606F] - IF = 4.123 - Corresponding Author
43. C. Ingallina, F. Rinaldi, A. Bogni, J. Ponti, **D. Passeri**, M. Reggente, M. Rossi, A. Kinsner-Ovaskainen, D. Mehn, F. Rossi, B. Botta, M. Carafa, C. Marianecchi, *Niosomal approach to brain delivery: development, characterization and in vitro toxicological studies*, *Int. J. Pharmaceut.* 511, pp. 969-982 (2016).
[DOI: 10.1016/j.ijpharm.2016.08.002] - IF = 3.649
42. R. Matassa, S. Orlanducci, G. Reina, M.C. Cassani, **D. Passeri**, M.L. Terranova, M. Rossi, *Structural and morphological peculiarities of hybrid Au/nanodiamond engineered nanostructures*, *Sci. Rep.* 6, Article Number: 31163, pp. 1-11 (2016).
[DOI: 10.1038/srep31163] - IF = 4.259
41. L. Angeloni, **D. Passeri**, M. Reggente, D. Mantovani, M. Rossi, *Removal of electrostatic artifacts in magnetic force microscopy by controlled magnetization of the tip: application to superparamagnetic nanoparticles*, *Sci. Rep.* 6, Article Number: 26293, pp. 1-14 (2016).
[DOI: 10.1038/srep26293] - IF = 4.259 - Corresponding Author

40. **D. Passeri**, M. Reggente, M. Rossi, S. Nunziante Cesaro, V. Guglielmotti, J.J. Vlassak, A.M. De Francesco, R. Scarpelli, M. Hatipoğlu, D. Ajò, *Contact resonance atomic force microscopy (CR-AFM) in applied mineralogy: the case of natural and thermally treated diaspore*, *Eur. J. Mineral.* 28, pp. 273-283 (2016).
[DOI: 10.1127/ejm/2016/0028-2520] - IF = 1.362 - Corresponding Author
39. L. Angeloni, **D. Passeri**, M. Reggente, F. Pantanella, D. Mantovani, M. Rossi, *Microbial cells force spectroscopy by atomic force microscopy: A review*, *Nanoscience and Nanometrology* 2, pp. 30-40 (2016).
[DOI: 10.11648/j.nsnm.20160201.13] - IF = N.A. - Corresponding Author
38. **D. Passeri**, E. Tamburri, M.L. Terranova, M. Rossi, *Polyaniline-nanodiamond fibers resulting from the self-assembly of nano-fibrils: a nanomechanical study*, *Nanoscale* 7, pp. 14358-14367 (2015).
[DOI: 10.1039/c5nr02096d] - IF = 7.760 - Corresponding Author
37. L. Dini, E. Panzarini, S. Mariano, **D. Passeri**, M. Reggente, M. Rossi, C. Vergallo, *Microscopies at the nanoscale for nano-scale drug delivery systems*, *Curr. Drug Targets* 16, pp. 1512-1530 (2015).
[DOI: 10.2174/1389450116666150531160851] - IF = 3.029
36. M. Reggente, M. Rossi, L. Angeloni, E. Tamburri, M. Lucci, I. Davoli, M.L. Terranova, **D. Passeri**, *Atomic force microscopy techniques for nanomechanical characterization: a polymeric case study*, *JOM* 67, pp. 849-857 (2015).
[DOI: 10.1007/s11837-015-1340-9] - IF = 1.798 - Corresponding Author
35. **D. Passeri**, F. Rinaldi, C. Ingallina, M. Carafa, M. Rossi, M.L. Terranova, C. Marianecchi, *Biomedical applications of nanodiamonds: an overview*, *J. Nanosci. Nanotechnol.* 15, pp. 972-988 (2015).
[DOI: 10.1166/jnn.2015.9734] - IF = 1.338
34. M. Rossi, F. Cubadda, L. Dini, M.L. Terranova, F. Aureli, A. Sorbo, **D. Passeri**, *Scientific basis of nanotechnology, implications for the food sector and future trends*, *Trends Food Sci. Tech.* 40, pp. 127-148 (2014).
[DOI: 10.1016/j.tifs.2014.09.004] - IF = 4.651
33. **D. Passeri**, C. Dong, M. Reggente, L. Angeloni, M. Barteri, F. A. Scaramuzzo, F. De Angelis, F. Marinelli, F. Antonelli, F. Rinaldi, C. Marianecchi, M. Carafa, A. Sorbo, D. Sordi, I.W.C.E. Arends, M. Rossi, *Magnetic force microscopy: quantitative issues in biomaterials*, *Biomater.* 4, Article Number: e29507, pp. 1-16 (2014).
[DOI: 10.4161/biom.29507] - IF = N.A. - Corresponding Author
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5. **D. Passeri**, L. Angeloni, M. Reggente, M. Rossi, *Magnetic force microscopy*, in *Magnetic characterization techniques for nanomaterials*, C.S.S.R. Kumar (Ed.), Springer-Verlag Berlin Heidelberg (2017), Chapter 7, pp 209-259.
[DOI: 10.1007/978-3-662-52780-1_7 ; ISBN: 978-3-662-52779-5 (Hardcover), 978-3-662-52780-1 (eBook)]
4. **D. Passeri**, F. Marinello, *Acoustic scanning probe microscopy: an overview*, in *Acoustic scanning probe microscopy*, F. Marinello, D. Passeri, E. Savio (Eds.), *NanoScience and Technology Series*, Springer Berlin Heidelberg (2013), Chapter 1, pp. 1-20.
[DOI: 10.1007/978-3-642-27494-7_1 ; ISBN: 978-3-642-27493-0]
3. F. Marinello, **D. Passeri**, P. Schiavuta, E. Savio, *Data processing for acoustic probe microscopy techniques*, in *Acoustic scanning probe microscopy*, F. Marinello, D. Passeri, E. Savio (Eds.), *NanoScience and Technology Series*, Springer Berlin Heidelberg (2013), Chapter 13, pp. 375-390.
[DOI: 10.1007/978-3-642-27494-7_13 ; ISBN: 978-3-642-27493-0]
2. F. Marinello, **D. Passeri**, E. Savio, *Preface*, in *Acoustic scanning probe microscopy*, F. Marinello, D. Passeri, E. Savio (Eds.), *NanoScience and Technology Series*, Springer Berlin Heidelberg (2013), pp. xiii-xiv.
[ISBN: 978-3-642-27493-0]
1. A. Alippi, A. Bettucci, M. Germano, **D. Passeri**, *Generation threshold of subharmonic modes in piezoelectric resonator*, in *Universality of nonclassical nonlinearity, with applications to NDE and ultrasonics*, P.P. Delsanto (Ed.), Springer (2006), Chapter 30, pp. 487-493.
[DOI: 10.1007/978-0-387-35851-2_30 ; ISBN: 978-0-387-33860-6]

Other proceedings:

24. E. Chiricozzi, L. Angeloni, M. Natali, **D. Passeri**, M. Rossi, M. Villani, *The nanomaterials and the new generation of electric motors*, in Proceedings of: *7th International Conference on Magnetism and Metallurgy (WMM'16)*, pp. 319-324, Rome (Italy), 13-15 June 2016.
23. E. Tamburri, G. Reina, T. Lavecchia, S. Orlanducci, M.L. Terranova, **D. Passeri**, R. Matassa, M. Rossi, *Nanodiamonds and Conducting Polymers: a new paradigm for multifunctional nanomaterials*, in Proceedings of: *1st Workshop on Nanotechnology in Instrumentation and Measurement (NANOIM 2015)*, A. Lay-Ekuakille, W.J. Li (Eds.), pp. 187-190, Lecce (Italy), 24-25 July 2015.
[ISBN: 9-788896-496381]
22. A. Biagioni, M. Germano, T. Natale, **D. Passeri**, *Modi di vibrazione di strutture tensegrali capaci di modellizzare le deformazioni cellulari nei tessuti biologici*, in Proceedings of: *39mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Roma (Italy), 4-6 July 2012.
[ISBN: 978-88-88942-40-7]
21. A. Biagioni, **D. Passeri**, C. Alippi, *Proprietà termoacustiche di agenti di contrasto per ultrasonografia medica*, in Proceedings of: *39mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Roma (Italy), 4-6 July 2012.
[ISBN: 978-88-88942-40-7]
20. S. Orlanducci, E. Tamburri, I. Cianchetta, D. Sordi, M.L. Terranova, **D. Passeri**, M. Rossi, *Nanodiamonds: hints for bio-technical applications*, in Proceedings of *CARBOMAT 2011 - Workshop on carbon-based low dimensional materials*, pp., 53-55, Catania (Italy), 5-7 December 2011.
[ISBN: 978-88-8080-124-5]
19. R. Matassa, S. Orlanducci, V. Guglielmotti, D. Sordi, E. Tamburri, M.L. Terranova, **D. Passeri**, M. Rossi, *Self-assembly of graphitic nanoplatelets*, in Proceedings of *CARBOMAT 2011 - Workshop on carbon-based low dimensional materials*, pp. 93-96, Catania (Italy), 5-7 December 2011. [ISBN: 978-88-8080-124-5]

18. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Nonlinear behaviour of cell tensegrity models*, in Proceedings of: *International Congress on Ultrasonics 2011* (ICU 2011), Gdansk (Poland), 5-8 September 2011. [ISBN: 9788375312157]
17. A. Biagioni, A. Bettucci, D. Conclusio, M. Germano, **D. Passeri**, A. Alippi, A. D'Orazio, *Thermal dependence of ultrasound contrast agents scattering characteristics for echographic imaging techniques*, in Proceedings of: *Forum Acusticum 2011*, pp. 21-25, Aalborg (Denmark), 27 June - 1 July 2011. [ISBN: 978-84-694-1520-7, ISSN: 221-3767]
16. M. Germano, A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, **D. Passeri**, A. D'Orazio, *Generation of a backward Lamb wave by means of mode conversion*, in Proceedings of: *Forum Acusticum 2011*, pp. 997-1000, Aalborg (Denmark), 27 June - 1 July 2011. [ISBN: 978-84-694-1520-7, ISSN: 221-3767]
15. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Analisi agli elementi finiti delle non linearità delle strutture tensintegre*, in Proceedings of: *38mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Rimini (Italy), 8-10 June 2011.
14. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Misura della velocità di gruppo e di fase dell'onda di Lamb retrograda*, in Proceedings of: *38mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Rimini (Italy), 8-10 June 2011.
13. A. Frioni, T. Natalizi, M. Tendini, A. Fraveto, F. Pantanella, F. Berlutti, M. Pietropaoli, **D. Passeri**, M.L. Terranova, M. Rossi, P. Valenti, *Biotimer assay for counting bacterial biofilm*, in *Biomedical Applications of Micro and Nanotechnology - Proceedings of a CISB Minisymposium*, Biophysics and Bioengineering Letters 3 (2010).
12. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Thermal behavior of ultrasound contrast agents for echographic imaging techniques through a photoacoustic technique*, in Proceedings of: *1-st EAA - EuroRegio 2010*, Ljubljana (Slovenia), 13-15 September 2010.
11. A. Bettucci, M. Germano, **D. Passeri**, *Nonlinear oscillating phenomena in finite piezoelectric structures*, in Proceedings of: *39th International Congress on Noise Control Engineering 2010, INTER-NOISE 2010*, Lisbon (Portugal), 13-16 June 2010, Volume 9, pp. 6843-6851 (2010).
10. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Studio preliminare del comportamento non lineare di agenti di contrasto per ecografia diagnostica mediante la tecnica di scattering a impulsi*, in Proceedings of: *37mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Siracusa (Italy), 26-28 May 2010.
9. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Comportamento non lineare di strutture tensintegre*, in Proceedings of: *37mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Siracusa (Italy), 26-28 May 2010.
8. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Studio del comportamento termico di agenti di contrasto per ecografia diagnostica mediante un sistema fotoacustico*, in Proceedings of: *37mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Siracusa (Italy), 26-28 May 2010.
7. **D. Passeri**, S. Berezina, A. Bettucci, A. Biagioni, M. Rossi, A. Alippi, E. Tamburri, M. Lucci, I. Davoli, *Measurement of indentation modulus and hardness of PEDOT thin films by atomic force microscopy*, in Proceedings of: *15-th Applied Physics of Condensed Matter (APCOM 2009)*, Liptovský Ján (Slovakia), 24-26 June 2009.
6. A. Biagioni, A. Alippi, A. Bettucci, A. D'Orazio, M. Germano, **D. Passeri**, *Photoacoustical evaluation of thermal response of microbubbles*, *J. Acoust. Soc. Am.* 123, p. 3220 (2008). [DOI: 10.1121/1.2933418]
5. A. Biagioni, A. Bettucci, **D. Passeri**, C. Guiot, R. Cavalli, F. Bini, F. P. Branca, F. Marinozzi, F. Patanè, *Ultrasonic characterization of chitosan-based microbubbles containing CO₂*, Proceedings of the International Congress on Ultrasonics ICU Vienna (2007). [DOI: 10.3728/ICUltrasonics.2007.Vienna.1603_biagioni]
4. A. Bettucci, A. Alippi, A. Biagioni, M. Germano, **D. Passeri**, *Energy field distribution in harmonic generation of acoustic modes in finite structures*, Proceedings of the International Congress on Ultrasonics ICU Vienna (2007). [DOI: 10.3728/ICUltrasonics.2007.Vienna.1602_bettucci]
3. **D. Passeri**, A. Bettucci, M. Germano, A. Biagioni, M. Rossi, A. Alippi, M.L. Terranova, *Atomic force acoustic microscopy characterization of carbon-based materials*, Proceedings of the International Congress on Ultrasonics ICU Vienna (2007). [DOI: 10.3728/ICUltrasonics.2007.Vienna.1650_passeri]

2. A. Alippi, A. Bettucci, A. Biagioni, J.A. Gallego, **D. Passeri**, E. Riera, *Non linear down-frequency conversion effects in high intensity vibration of plate transducers and piezoelectric structures*, in Proceedings of: *19-th International Congress on Acoustics ICA 2007*, Madrid (Spain), 2-7 September 2007, p. NLA-05-001.
1. M. Germano, A. Alippi, A. Bettucci, **D. Passeri**, *2-D Lagrangian code for dynamics in the phenomenon of single-bubble sonoluminescence, a preliminary study*, in Proceedings of: *VIII International Conference for Young Researchers: Wave electronics and its applications in the information and telecommunication systems*, St. Petersburg (Russia), 4-9 September 2005, p. S3-8.

COMMISSIONS OF TRUST

Editorships Activity as Editor:

April 2015 – today Editor-in-chief of the journal *Nanoscience and Nanometrology* (ISSN Print: 2472-3622 ; ISSN Online: 2472-3630), which I conceived, proposed to Publisher, and launched.

Editorial board memberships Activity as Editorial Board member of the journals:

July 2016 – today *Scanning* (ISSN Online: 1932-8745) - IF = 1.345 (2016).
 April 2014 – April 2015 *American Journal of Nanoscience and Nanotechnology*.
 April 2014 – April 2015 *International Journal of Materials Science and Applications*.
 October 2013 – April 2015 *International Scholarly Research Notices* (formerly *ISRN Biomedical Imaging*).

Refereeing Since 2009 I have collaborated as Reviewer with the journals:

- **2018:** *Ultramicroscopy, Macromolecules, Micro and Nanosystems, Materials and Design* (2 articles), *Journal of Applied Physics, Colloids and Surfaces A*
- **2017:** *Nature Communications, Materials, ACS Applied Materials & Interfaces, Journal of Physics and Chemistry of Solids, Journal of Magnetism and Magnetic Materials, Ultramicroscopy, Instrumentation Science & Technology, Diamond and Related Materials*
- **2016:** *Biomacromolecules, ACS Nano, Ultramicroscopy, Nanomedicine: Nanotechnology, Biology, and Medicine* (2 articles), *Sensors, European Polymer Journal, Neues Jahrbuch für Mineralogie (Journal of Mineralogy and Geochemistry), Ultrasonics, Journal of Applied Physics, Applied Sciences, Thin Solid Films, Materials Chemistry and Physics*
- **2015:** *Langmuir* (2 articles), *Micro & Nano Letters, Materials Chemistry and Physics, Thin Solid Films, Journal of Applied Physics*
- **2014:** *Nanoscale, Ultramicroscopy, Nanoscale Research Letters, RSC Advances, IET Science, Measurement and Technology, Journal of Applied Polymer Science, International Journal of Materials Science and Technology, American Journal of Nanoscience and Nanotechnology, Instrumentation Science and Technology, Applied Surface Science, American Journal of Nano Research and Application, Sensors*
- **2013:** *Applied Surface Science, Sensors, Nanomedicine, Micromachines, Thin Solid Films*
- **2012:** *Microscopy Research and Technique, Thin Solid Films, Journal of Nanomaterials, Nanoscale Research Letters, Characterization of Materials*
- **2011:** *Ultramicroscopy, Nanoscale Research Letters*
- **2010:** *Materials Today, Wear, Science and Technology of Advanced Materials, Journal of Nanoparticle Research*
- **2009:** *Nanoscience and Nanotechnology Letters*

Chairmanships I served as chairman of the following sessions of scientific conferences:

8. *Advanced SPM techniques: methods and applications 2* of the congress *NanoInnovation 2018*, Rome (Italy), 13 September 2018.
7. *Keynote Session: Scanning Probe Microscopy: Touching and Probing Matter at the Nanoscale* of the congress *NanoInnovation 2018*, Rome (Italy), 13 September 2018.
6. *Multiscale characterization* of the congress *BioM&M*, Milan (Italy), 27 June 2018.
5. *Advanced functional nanomaterials* of the congress *NanoInnovation 2017*, Rome (Italy), 29 September 2017.

4. *Nanotechnology and innovation for electronics* of the congress *NanoInnovation 2017*, Rome (Italy), 29 September 2017.
3. *Nanocharacterization techniques* of the congress *NanoItaly 2015*, Rome (Italy), 22 September 2015.
2. *Plasma-based surface modifications* of the congress *The 4th International Symposium on Surface and Interface of Biomaterials (ISSIB) 2013*, Rome (Italy), 27 September 2013.
1. *Micro/nano structure and expression of macroscopic properties* of the congress *The 4th International Symposium on Surface and Interface of Biomaterials (ISSIB) 2013*, Rome (Italy), 28 September 2013.

ADDITIONAL SCIENTIFIC INFORMATION

- Memberships** Member of the following scientific societies and professional orders:
- 2014 – today *European Microscopy Society (EMS)*.
- 2014 – today *Società Italiana di Scienze Microscopiche (SISM)*.
- 2015 *The Minerals, Metals and Materials Society (TMS)*.
- 2005 – today *Ordine degli Ingegneri* of Rome, having obtained the licensure after having passed the entrance examination on 2004.
- Organization of meetings** I organized or served as member of the scientific or organization committees of scientific conferences and meetings:
7. Member of the workshop committee (R. Marcelli, **D. Passeri**, M. Renzelli) of the workshop *Advanced Scanning Probe Microscopies* of the congress *NanoInnovation 2018*, Rome (Italy), 13 September 2018.
 6. Member of the programme committee of the congress *NanoInnovation 2018*, Rome (Italy), 11-14 September 2018.
 5. Coordinator of the local organization committee of the congress *Eurasia Conference on Chemical Sciences (EuAsC₂S-15)*, Rome (Italy), 5-8 September 2018.
 4. Chair of the Special Session *Nanoscale mechanical characterization* of the congress *The First International Conference on Materials, Mimicking, Manufacturing from and for Bio Application (BioM&M)*, Milan (Italy), 27-29 June 2018.
 3. Member of the programme committee of the congress *NanoInnovation 2017*, Rome (Italy), 26-29 September 2017.
 2. Coordinator of the local organization committee of the congress *NanoInnovation 2016*, Rome (Italy), 20-23 September 2016.
 1. Member of the local organization committee of the congress *The 4th International Symposium on Surface and Interface of Biomaterials (ISSIB) 2013*, Rome (Italy), 24-28 September 2013.
- Conferences** Attendance to the following conferences, international and national meetings, and workshops:
27. *NanoInnovation 2018*, Rome (Italy), 11-14 September 2018.
 26. *Eurasia Conference on Chemical Sciences (EuAsC₂S-15)*, Rome (Italy), 5-8 September 2018.
 25. *The First International Conference on Materials, Mimicking, Manufacturing from and for Bio Application (BioM&M)*, Milan (Italy), 27-29 June 2018.
 24. *NanoInnovation 2017*, Rome (Italy), 26-29 September 2017.
 23. *Italian National Conference on Materials Science and Technology (Materials 2016)*, Catania (Italy), 12-16 December 2016.
 22. *Science through Scanning Probe Microscopy 2016 - StSPM'16*, Bologna (Italy), 20-21 October 2016.
 21. *NanoInnovation 2016*, Rome (Italy), 20-23 September 2016.
 20. *Secondo Convegno Nazionale Nanotecnologie e Nanomateriali nel Settore Alimentare e loro Valutazione di Sicurezza*, Rome (Italy), 29 April 2016.
 19. *AFMeeting 2016: Il Incontro Utenti Italiani di Microscopia a Forza Atomica (AFM)*, Rome (Italy), 23-24 February 2016.
 18. *NanoItaly 2015*, Rome (Italy), 21-24 September 2015.

17. *TMS 2015*, Orlando (Florida, USA), 15-19 March 2015.
16. *NanoForum 2014*, Rome (Italy), 22-25 September 2014.
15. *The 4th International Symposium on Surface and Interface of Biomaterials (ISSIB) 2013*, Rome (Italy), 24-28 September 2013.
14. *NanoForum 2013*, Rome (Italy), 18-20 September 2013.
13. *NanotechITALY 2012*, Venice (Italy), 21-23 November 2012.
12. *Nanomedicine: from molecules to diagnosis and therapy*, Rome (Italy), 1-3 October 2012.
11. *NanoForum 2012*, Rome (Italy), 24-26 September 2012.
10. *International Conference on Mechanics of Nano, Micro and Macro Composite Structures (ICNMMCS 2012)*, Turin (Italy), 18-20 June 2012.
9. *Nanomateriali e salute*, Rome (Italy), 10-11 May 2012.
8. *Bio&medical sciences with new light sources*, Rome (Italy), 12-13 March 2009.
7. *EPS-CMD 22*, Rome (Italy), 25-29 August 2008.
6. *E-MRS 2007 Spring Meeting*, Strasbourg (France), 28 May - 1 June 2007.
5. *2007 ICU Wien*, Wien (Austria), 9-12 April 2007.
4. *E-MRS IUMRS ICEM 2006 Spring Meeting*, Nice (France), 29 May - 2 June 2006.
3. *Nanocose 3*, Rome (Italy), 3-5 October 2005.
2. *XX Congress of the International Union of Crystallography*, Florence (Italy), 23-31 August 2005.
1. *Metrologia per le nanotecnologie*, Turin (Italy), 12-13 May 2004.

Other coauthored communications
at conferences

Oral communications and posters which I coauthored:

67. L. Angeloni, M. Reggente, **D. Passeri**, M. Rossi, *Nanomechanical characterizations of biomaterials using atomic force microscopy*, oral contribution at *BioM&M*, Milan (Italy), 27-29 June 2018.
66. L. Angeloni, **D. Passeri**, M. Reggente, M. Natali, D. Mantovani, M. Rossi, *Magnetic force microscopy with controlled magnetization of the tip: toward truly quantitative nanomagnetometry*, oral contribution at *StSPM'16*, Bologna (Italy), 21 October 2016 (Book of Abstracts p. 33).
65. M. Reggente, M. Natali, **D. Passeri**, G. Pourroy, P. Masson, H. Palkowski, M. Rossi, A. Carradó, *Synthesis and nanomechanical characterization of hybrid Ti/PMMA materials for medical devices*, oral communication at *30th Conference of the European Colloid and Interface Society (ECIS 2016)*, Rome (Italy), 4-9 September 2016 (Book of Abstracts (Orals) O.106, p. 143).
64. L. Angeloni, V. Montañó-Machado, S. Turgeon, P. Chevallier, **D. Passeri**, M. Rossi, D. Mantovani, *Oxidation plasma treatment of fluorocarbon ultrathin films for cardiovascular applications*, poster at *30th Conference of the European Colloid and Interface Society (ECIS 2016)*, Rome (Italy), 4-9 September 2016 (Book of Abstracts (Posters) P2.13, p. 98).
63. M. Reggente, E. Tamburri, **D. Passeri**, M.L. Terranova, M. Rossi, *Conducting Polymers as candidate material for artificial muscles: an EC-AFM study*, poster at *30th Conference of the European Colloid and Interface Society (ECIS 2016)*, Rome (Italy), 4-9 September 2016 (Book of Abstracts (Posters) P2.116, p. 201).
62. E. Chiricozzi, L. Angeloni, M. Natali, **D. Passeri**, M. Rossi, M. Villani, *The nanomaterials and the new generation of electric motors*, poster at *7th International Conference Magnetism and Metallurgy WMM'16*, Rome (Italy), 13-15 June 2016.
61. E. Tamburri, G. Reina, S. Orlanducci, M.L. Terranova, **D. Passeri**, R. Matassa, M. Rossi, *Nanodiamonds and conducting polymers: a way towards new multifunctional platforms*, oral communication at *XI Convegno Nazionale Materiali Nanofasici*, Rome (Italy), 26-28 October 2015.
60. E. Tamburri, M. Reggente, M. Angjellari, A. Valguarnera, S. Orlanducci, **D. Passeri**, M. Rossi, M.L. Terranova, *Strategies for fabrication of innovative and highly biocompatible diamond electrodes*, poster at *IEEE NANO 2015*, Rome (Italy), 27-30 July 2015.
59. M. Reggente, **D. Passeri**, L. Angeloni, F. Scaramuzzo, F. De Angelis, M. Barteri, M. Rossi, *Atomic force microscopy techniques for the detection of nanomaterials incorporated in biological systems*, poster at *18-th International Microscopy Congress*, Prague (Czech Republic), 7-12 September 2014.

58. M. Reggente, **D. Passeri**, L. Angeloni, M. Rossi, E. Tamburri, S. Orlanducci, M.L. Terranova, *In situ characterization of the growth mechanism of PANI films with electrochemical atomic force microscopy*, poster at 18-th International Microscopy Congress, Prague (Czech Republic), 7-12 September 2014.
57. L. Angeloni, **D. Passeri**, M. Reggente, C. Marianecchi, D. Mantovani, M. Rossi, *Characterization of magnetic nanoparticles properties by magnetic force microscopy*, poster at 18-th International Microscopy Congress, Prague (Czech Republic), 7-12 September 2014.
56. L. Angeloni, **D. Passeri**, M. Reggente, F. Pantanella, S. Schippa, D. Mantovani, M. Rossi, *Bacterial adhesion force measurements by microbial cell probe atomic force microscopy*, poster at 18-th International Microscopy Congress, Prague (Czech Republic), 7-12 September 2014.
55. S. Irrera, **D. Passeri**, M. Reggente, M. Rossi, G. Portalone, *Self-assembly of the newly discovered DNA base 5 - carboxylcytosine on graphite*, oral communication at XXV Congresso Nazionale della Società Chimica Italiana, Arcavacata di Rende (Cosenza, Italy), 7-12 September 2014.
54. M.L. Terranova, S. Orlanducci, S. Gay, V. Guglielmotti, T. Lavecchia, G. Reina, E. Tamburri, R. Matassa, **D. Passeri**, M. Rossi, *Nanodiamond/conducting polymers: in search of best suited system for energetic applications*, oral communication at International Conference Advanced Carbon Nanostructures ACNS 2013, St. Petersburg, (Russia), 1-5 July 2013.
53. C. Marianecchi, F. Rinaldi, C. Ingallina, C. Dong, **D. Passeri**, A. Sorbo, M. Rossi, M. Carafa, *Multifunctional nanocarriers: MNPs loaded niosomes, preparation and characterization*, poster at European Foundation for Clinical Nanomedicine (CLINAM) and the European Technology Platform on Nanomedicine (ETPN) Summit, Basel (Switzerland), 23-26 June 2013.
52. **D. Passeri**, M. Rossi, E. Tamburri, V. Guglielmotti, S. Orlanducci, M.L. Terranova, *Atomic force microscopy as a tool for characterization of thermoacoustic nanostructured emitters at nanoscale*, poster at NanotechITALY 2012, Venice (Italy), 21-23 November 2012 (Digest p. 97).
51. C. Marianecchi, F. Rinaldi, G. Baldi, **D. Passeri**, C. Dong, A. Sorbo, M. Rossi, M. Carafa, *Non ionic surfactant vesicles/MNPs as smart delivery system for theranostic applications: a preliminary evaluation*, poster at The First NEMB Venice Workshop on "Cancer Nanotechnology", Venice (Italy), 11-12 October 2012.
50. C. Marianecchi, F. Rinaldi, G. Baldi, **D. Passeri**, C. Dong, A. Sorbo, M. Rossi, M. Carafa, *MNPs in non ionic surfactant vesicles as smart delivery system for theranostic applications*, oral communication at Nanomedicine: from molecules to diagnosis and therapy, Rome (Italy), 1-3 October 2012 (Digest p. SL6).
49. **D. Passeri**, C. Dong, S. Corsetti, L. Angeloni, M. Rossi, F. Rinaldi, C. Marianecchi, M. Carafa, F. Pantanella, A. Sorbo, *Visualization and quantification of magnetic nanoparticles into vesicular systems by atomic force microscopy*, poster at Nanomedicine: from molecules to diagnosis and therapy, Rome (Italy), 1-3 October 2012 (Digest p. P20).
48. S. Orlanducci, E. Tamburri, V. Guglielmotti, I. Cianchetta, **D. Passeri**, R. Matassa, M. Rossi, M.L. Terranova, *Conducting polymers/nanodiamond composites: preparation and applications of unconventional nanofibers and fibril-like structures*, oral communication at XL Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Sestri Levante (Genova, Italy), 9-13 September 2012 (Digest p. 63).
47. A. Biagioni, M. Germano, T. Natale, **D. Passeri**, *Modi di vibrazione di strutture tensegrali capaci di modellizzare le deformazioni cellulari nei tessuti biologici*, oral communication at 39mo Convegno Nazionale dell'Associazione Italiana di Acustica, Rome (Italy), 4-6 July 2012.
46. A. Biagioni, **D. Passeri**, C. Alippi, *Proprietà termoacustiche di agenti di contrasto per ultrasonografia medica*, oral communication at 39mo Convegno Nazionale dell'Associazione Italiana di Acustica, Rome (Italy), 4-6 July 2012.
45. M.L. Terranova, E. Tamburri, V. Guglielmotti, F. Toschi, S. Orlanducci, **D. Passeri**, M. Rossi, *Conducting polymer/nanodiamond composites: New opportunities and scientific challenges for material science*, oral communication at Times of Polymers and Composites, Ischia (Italy), 10-14 June 2012.
44. E. Tamburri, V. Guglielmotti, S. Orlanducci, M.L. Terranova, **D. Passeri**, M. Rossi, D. Sordi, *Nanodiamond-triggered organization in fibers of PANI nanocomposites produced by chemical and electrochemical routes: Structural Features and Functional characterizations*, oral communication at 2012 MRS SPRING MEETING & EXHIBIT, San Francisco (CA, USA), 9-13 April 2012.
43. S. Orlanducci, E. Tamburri, I. Cianchetta, D. Sordi, M.L. Terranova, **D. Passeri**, M. Rossi, *Nanodiamonds: hints for bio-technical applications*, oral communication at CARBOMAT 2011 - Workshop on carbon-based low dimensional materials, Catania (Italy), 5-7 December 2011.

42. R. Matassa, S. Orlanducci, V. Guglielmotti, D. Sordi, E. Tamburri, M. L. Terranova, **D. Passeri**, M. Rossi, *Self-assembly of graphitic nanoplatelets*, oral communication at *CARBOMAT 2011 - Workshop on carbon-based low dimensional materials*, Catania (Italy), 5-7 December 2011.
41. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Nonlinear behaviour of cell tensegrity models*, oral communication at *International Congress on Ultrasonics 2011 (ICU 2011)*, Gdansk (Poland), 5-8 September 2011.
40. M.L. Terranova, S. Orlanducci, E. Tamburri, V. Guglielmotti, D. Sordi, F. Toschi, R. Matassa, **D. Passeri**, M. Rossi, *Engineering nanodiamond-PANI nanocomposites: structural features and mutual arrangements*, oral communication at *Advanced Carbon Nanostructures ACN'2011*, St. Petersburg (Russia), 4-8 July 2011 (Digest p. 62).
39. S. Orlanducci, V. Guglielmotti, D. Sordi, E. Tamburri, M.L. Terranova, **D. Passeri**, M. Rossi, *Self-assembly of graphitic nanoplatelets*, poster at *Advanced Carbon Nanostructures ACN'2011*, St. Petersburg (Russia), 4-8 July 2011 (Digest p. 344).
38. A. Biagioni, A. Bettucci, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, A. Alippi, *Thermal dependence of ultrasound contrast agents scattering characteristics for echographic imaging techniques*, oral communication at *Forum Acusticum 2011*, Aalborg (Denmark), 27 June - 1 July 2011.
37. M. Germano, A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, **D. Passeri**, *Generation of a backward Lamb wave by means of mode conversion*, oral communication at *Forum Acusticum 2011*, Aalborg (Denmark), 27 June - 1 July 2011.
36. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Analisi agli elementi finiti delle non linearità delle strutture tensintegre*, oral communication at *38mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Rimini (Italy), 8-10 June 2011.
35. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Misura della velocità di gruppo e di fase dell'onda di Lamb retrograda*, oral communication at *38mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Rimini (Italy), 8-10 June 2011.
34. D. Sordi, S. Orlanducci, E. Tamburri, **D. Passeri**, M. Lucci, M.L. Terranova, *Nanocomposites constituted by thermotropic liquid crystal polymers and carbon nanotubes: self-organization and photoinduced charge transfer*, poster at *Frontiers in polymers science*, Lyon (France), 29-31 May 2011 (Digest p. P.3.053).
33. A.M. De Francesco, R. Scarpelli, M. Hatipoglu, **D. Passeri**, M. Rossi, F. De Zuane, D. Ajò, *Minerals and related artificial materials: the case of diaspore*, poster at *89mo Congresso della Società Italiana di Mineralogia e Petrologia (SIMP)*, Ferrara (Italy), 13-15 September 2010.
32. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Thermal behavior of ultrasound contrast agents for echographic imaging techniques through a photoacoustic technique*, poster at *1-st EAA - EuroRegio 2010*, Ljubljana (Slovenia), 13-15 September 2010.
31. A. Bettucci, M. Germano, **D. Passeri**, *Nonlinear oscillating phenomena in finite piezoelectric structures*, oral communication at *Inter noise 2010*, Lisbon (Portugal), 13-16 June 2010.
30. D. Sordi, S. Orlanducci, F. Toschi, M.L. Terranova, M. Lucci, **D. Passeri**, *Thermotropic liquid crystal polymer filled with single wall carbon nanotubes: self-ordered system for photoinduced charge injection*, oral communication at *EUPOC 2010*, Gargnano Lago di Garda (Brescia, Italy), 30 May - 4 June 2010 (Digest p. 44).
29. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Studio preliminare del comportamento non lineare di agenti di contrasto per ecografia diagnostica mediante la tecnica di scattering a impulsi*, oral communication at *37mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Siracusa (Italy), 26-28 May 2010.
28. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Comportamento non lineare di strutture tensintegre*, oral communication at *37mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Siracusa (Italy), 26-28 May 2010.
27. A. Alippi, A. Bettucci, A. Biagioni, D. Conclusio, A. D'Orazio, M. Germano, **D. Passeri**, *Studio del comportamento termico di agenti di contrasto per ecografia diagnostica mediante un sistema fotoacustico*, oral communication at *37mo Convegno Nazionale dell'Associazione Italiana di Acustica*, Siracusa (Italy), 26-28 May 2010.
26. F. Berlutti, F. Pantanella, A. Catizone, A. Frioni, T. Natalizi, M. Pietropaoli, **D. Passeri**, M. Rossi, P. Valentì, *Lactoferrin conjugated SiO₂ nanoparticles: a preliminary study on safety and efficacy*, poster at *3rd European Conference for Clinical Nanomedicine (CLINAM)*, Basel (Switzerland), 10-12 May 2010.

25. **D. Passeri**, S. Berezina, A. Bettucci, A. Biagioni, M. Rossi, A. Alippi, E. Tamburri, M. Lucci, I. Davoli, *Measurement of indentation modulus and hardness of poly(3,4-ethylene-dioxithiophene) PEDOT doped with poly(4-styrenesulfonate) (PSS) thin films by atomic force microscopy*, oral communication at 15-th Applied Physics of Condensed Matter (APCOM 2009), Liptovský Ján (Slovakia), 24-26 June 2009.
24. D. Sordi, V. Guglielmotti, S. Orlanducci, E. Tamburri, F. Toschi, M.L. Terranova, M. Lucci, **D. Passeri**, *Aligned single wall carbon nanotubes in thermotropic polymer liquid crystals: preparation and characterization*, poster at 15-th Workshop on Liquid Crystal Phases and Nano-Structures, Erice (Trapani, Italy), 27 October - 1 November 2008.
23. D. Sordi, V. Guglielmotti, S. Orlanducci, E. Tamburri, F. Toschi, M.L. Terranova, **D. Passeri**, *Preparation and characterization of aligned single wall carbon nanotube in thermotropic polymer liquid crystals*, poster at XXXVI Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana, Lecce (Italy), 1-5 September 2008 (Digest p. P12).
22. **D. Passeri**, A. Bettucci, M. Rossi, A. Alippi, S. Berezina, P. Anastasiadis, P. Zinin, *Indentation modulus and hardness of collagen fibers by AFM nanoindentation*, poster at EPS-CMD 22, Rome (Italy), 25-29 August 2008 (Digest p. 81).
21. A. Bettucci, A. Biagioni, A. D'Orazio, **D. Passeri**, *Periodic oscillations within chaotic region in finite piezoelectric structures*, oral communication at 18-th International Symposium on Nonlinear Acoustics (ISNA), Stockholm (Sweden), 7-10 July 2008.
20. A. Alippi, A. Biagioni, M. Germano, **D. Passeri**, *Pattern matching of harmonic vibrations in nonlinearly generated acoustic modes in bovine bone samples*, oral communication at 18-th International Symposium on Nonlinear Acoustics (ISNA), Stockholm (Sweden), 7-10 July 2008.
19. A. Biagioni, A. Alippi, A. Bettucci, A. D'Orazio, M. Germano, **D. Passeri**, *Photoacoustical evaluation of thermal response of microbubbles*, poster at Acoustics'08 Paris, Paris (France), 29 June - 4 July 2008 (J. Acoust. Soc. Am. 123, p. 3220 (2008), DOI: 10.1121/1.2933418).
18. F. Toschi, E. Tamburri, V. Guglielmotti, M.L. Terranova, A. Reale, A. Di Carlo, **D. Passeri**, M. Rossi, C. Falessi, A. Fiorello, R. Buttiglione, *Preparation and thermal characterization of carbon nanotubes-based composites for applications in electronics packaging*, oral communication at ICQNM 2008, Sainte Luce (Martinique), 10-15 February 2008.
17. A. Alippi, A. Bettucci, A. Biagioni, J.A. Gallego, **D. Passeri**, E. Riera, *Non linear down-frequency conversion effects in high intensity vibration of plate transducers and piezoelectric structures*, oral communication at 19-th International Congress on Acoustics (ICA) 2007, Madrid (Spain), 2-7 September 2007 (Digest p. 229).
16. **D. Passeri**, M. Rossi, A. Alippi, A. Bettucci, M.L. Terranova, E. Tamburri, F. Toschi, *Characterization of epoxy/single-walled carbon nanotubes composite samples via atomic force acoustic microscopy*, poster at E-MRS 2007 Spring Meeting, Strasbourg (France), 28 May - 1 June 2007 (Digest p. M-11).
15. **D. Passeri**, M. Rossi, A. Alippi, A. Bettucci, D. Manno, A. Serra, E. Filippo, *Atomic force acoustic microscopy characterization of nanostructured Selenium-Tin mixed oxide thin films*, poster at E-MRS 2007 Spring Meeting, Strasbourg (France), 28 May - 1 June 2007 (Digest p. K-4).
14. A. Serra, D. Manno, A. Tepore, S. Orlanducci, V. Sessa, E. Tamburri, F. Toschi, M.L. Terranova, **D. Passeri**, M. Rossi, *Photo-induced current in single-wall carbon nanotubes bundles investigation*, poster at ICNTE Workshop, Bologna (Italy), 24-25 May 2007.
13. A. Albolino, S. Orlanducci, **D. Passeri**, M. Rossi, M.S. Sarto, A. Tamburrano, E. Tamburri, F. Toschi, *Electromagnetic shielding performances of composites loaded with swcnnts by arc-discharge and laser-based techniques*, poster at ICNTE Workshop, Bologna (Italy), 24-25 May 2007.
12. A. Biagioni, A. Bettucci, C. Guiot, R. Cavalli, **D. Passeri**, *Ultrasonic characterization of chitosan-based microbubbles containing CO₂*, poster at 2007 ICU Wien, Wien (Austria), 9-12 April 2007 (Digest p. 85).
11. A. Alippi, A. Bettucci, A. Biagioni, M. Germano, **D. Passeri**, *Energy field distribution in harmonic generation of acoustic modes in finite structures*, oral communication at 2007 ICU Vienna, Wien (Austria), 9-12 April 2007 (Digest p. 117).
10. **D. Passeri**, A. Bettucci, A. Alippi, A. Belardini, F. Michelotti, A. Rousseau, A. Ratsimihety, *Electro-optic and electro-mechanical response of side-chain copolymers: a comparative study on the chromophore concentration dependence*, oral communication at 8-th European Conference on Applications of Polar Dielectrics (ECAPD8), Metz (France), 5-8 September 2006 (Digest p. 58).
9. A. Belardini, **D. Passeri**, M.C. Larciprete, G. Schoer, A. Rousseau, F. Michelotti, *Use of sandwich structures with ZnO:Al transparent electrodes for the measurement of the electro-optic properties of standard and fluorinated poled polymers at $\lambda=1.55 \mu\text{m}$* , oral communication at 1 Conference on Advances in Optical Materials, Tucson (Arizona, USA), 12-15 October 2005.

8. E. Tamburri, S. Orlanducci, A. Fiori, M.L. Terranova, V. Sessa, F. Brunetti, P. Regoliosi, M. Lucci, **D. Passeri**, M. Rossi, *New systems based on carbon nanotubes-polymer composites for advanced applications*, poster at *Nanocose 3*, Rome (Italy), 3-5 October 2005 (Digest p. 49).
7. **D. Passeri**, A. Alippi, A. Bettucci, M. Germano, G. Zollo, M. Rossi, E. Tamburri, S. Orlanducci, M.L. Terranova, *Local elastic measurement in nanostructured materials via Atomic Force Acoustic Microscopy technique*, poster at *Nanocose 3*, Rome (Italy), 3-5 October 2005 (Digest p. 59).
6. E. Tamburri, S. Orlanducci, A. Fiori, M.L. Terranova, V. Sessa, F. Brunetti, P. Regoliosi, M. Lucci, **D. Passeri**, M. Rossi, *New systems based on carbon nanotubes-polymer composites for advanced applications*, poster at *V Convegno Nazionale sulla Scienza e Tecnologia dei Materiali*, Geremeas - Maracalagonis (Cagliari, Italy), 26-29 September 2005 (Digest p. H25).
5. F. Marinozzi, F. Bini, **D. Passeri**, A. Grandoni, *AFM characterization of 1-3 Piezocomposite Arrays*, poster at *2005 IEEE International Ultrasonics Symposium*, Rotterdam (The Netherlands), 18-21 September 2005 (Digest pp. 343-344).
4. A. Alippi, A. Bettucci, M. Germano, **D. Passeri**, *Harmonic and subharmonic acoustic wave generation in finite structures*, oral communication at *World Congress on Ultrasonics/Ultrasonics International (WCU/UI '05)*, Beijing (China), 28 August - 1 September 2005.
3. **D. Passeri**, A. Alippi, A. Bettucci, M. Germano, G. Zollo, M. Rossi, E. Tamburri, S. Orlanducci, M.L. Terranova, *Local elastic measurement in nanostructured materials via Atomic Force Acoustic Microscopy technique*, poster at *XX Congress of the International Union of Crystallography*, Florence (Italy), 23-31 August 2005 (Digest p. C452).
2. **D. Passeri**, A. Alippi, A. Bettucci, M. Rossi, E. Tamburri, S. Orlanducci, A. Fiori, M.L. Terranova, *AFM and STM morphological characterisation of carbon nanotubes/conducting polymers composites*, poster at *X Scuola Nazionale di Scienza dei Materiali*, Sestri Levante (Genova, Italy), 27 September - 8 October 2004.
1. **D. Passeri**, M.C. Larciprete, A. Belardini, S. Paoloni, C. Sibilia, A. Passaseo, F. Michelotti, *Characterisation of the nonlinear coefficients of AlGaIn/GaN crystalline thin films via SHG measurement*, poster at *International School of Quantum Electronics 39-th Course*, Erice (Trapani, Italy), 18-25 October 2003.

Supervision of students and fellows I have supervised the experimental research activity of the following students and fellows at the Scanning Probe Microscopy Laboratory of *Electron Microscopy and Nanosciences (EMiNa)* research group (team leader Prof. Marco Rossi) and at the Acoustical Physics Laboratory (team leader Prof. Adriano Alippi), Department of Basic and Applied Sciences for Engineering, SAPIENZA University of Rome, Italy:

PhD students

4. **Marco Natali** - ongoing
3. **Melania Reggente** - PhD thesis title: *Design and advanced characterization of PMMA-coated Ti surfaces for biomedical application* (AY: 2016/17)
2. **Livia Angeloni** - PhD thesis title: *Development of new AFM based methodologies for the quantitative magnetic characterization of nanoparticles for biomedical applications* (AY: 2015/16)
1. **Chunhua Dong** - PhD thesis title: *Scanning probe microscopies for the study at nanoscale of nanomaterials and nanosystems* (AY: 2012/13)

Graduate students

5. **Marco Natali** - MSc thesis title: *Caratterizzazione meccanica alla nanoscala di materiali morbidi al variare della temperatura mediante microscopia a forza atomica* (AY: 2014/15)
4. **Melania Reggente** - MSc thesis title: *Atomic Force Microscopy techniques for the characterization of polymeric films* (AY: 2012/13)
3. **Stella Corsetti** - MSc thesis title: *Studio mediante microscopia a forza atomica e magnetica di nanoparticelle per applicazioni biomedicali* (AY: 2011/12)
2. **Livia Angeloni** - MSc thesis title: *Studio mediante tecniche di microscopia a scansione di sonda di nanoparticelle magnetiche per applicazioni biomedicali* (AY: 2010/11)
1. **Davide Conclusio** - MSc thesis title: *Caratterizzazione morfologica e meccanica di polimeri e materiali biologici mediante tecniche di microscopia a forza atomica* (AY: 2007/08)

Undergraduate students

3. **Ugo Sassi** - BSc thesis title: *Microscopia a forza atomica: studio preliminare dell'effetto termoacustico di film di nanotubi di carbonio* (AY: 2008/09)
2. **Marco Soldati** - BSc thesis title: *Implementazione della tecnica di nanoindentazione statica mediante microscopia a forza atomica per la determinazione del modulo di Young di materiali polimerici* (AY: 2006/07)
1. **Francesco Conforti** - MSc thesis title: *Microscopia a sonda per l'analisi delle proprietà meccaniche su scala nanometrica* (AY: 2006/07)

RESEARCH PROJECTS

I have participated as Principal Investigator or as Investigator to the following funded research projects:

- 2017 – today *Nanotechnology in agri/food/feed products*
Granted by European Food Safety Authority (EFSA) - Competition and contract reference RC/EFSA/SCER/2016/01
Global cost: 185.9 keuro
Role: Investigator
- 2016 – today *Engineered nanoparticles for bio-related applications: modeling, fabrication, characterization and testing*
Granted by SAPIENZA University of Rome, Progetti di Ateneo 2015 (Progetti GRANDI Ricerche Universitarie) - Ref. C26H15RFS2
Role: Investigator
- 2012 – 2014 *ADIMENA - Assemblaggio di dispositivi a microonde sia per brasatura con lega eutettica sia per incollaggio con materiali nano strutturati per applicazioni di apparati trasmettenti*
Granted by Regione Lazio, call 2012 Co-Research, supported in the framework POR FESR Lazio 2007/13 - Ref. FILAS-CR-20 11-1110
Global cost: 341 keuro
Role: Investigator
- 2012 – 2014 *TOMOSEM - Developing of a tomographic system for Scanning Electron Microscopy*
Granted by Regione Lazio, call 2012 Co-Research, supported in the framework POR FESR Lazio 2007/13 - Ref. FILAS-CR-20 11-1110
Global cost: 412 keuro
Role: Investigator
- 2012 *Imaging of carbon-based nanomaterials in biological systems by torsional harmonic atomic force microscopy and atomic force acoustic microscopy*
Granted by SAPIENZA University of Rome, call Avvio alla Ricerca 2012 - Prot. C26N12XAHF
Global cost: 2 keuro
Role: Principal Investigator
- 2010 – 2013 *SENSATIONAL - Fabrics integrated with gas nanosensors for personal protective equipment production*
Call Industria 2015 - Made in Italy, granted by Ministry of Economic Development (prot. MI01_00070, 01.09.2010 - 30.08.2012)
Global cost: 6.218 keuro; Cost of the Local Research Unit: 239 keuro
Role: Investigator
- 2010 – 2012 *Advanced nanomaterials and nanostructures for field- and photo-emission based devices*
Call PRIN (Projects of Relevant National Interest) 2008 under the coordination of prof. Luigi Palumbo, granted by MIUR

Global cost: 134 keuro; Cost of the Local Research Unit: 58 keuro
Role: Investigator

2008 – 2011 *NANORAY for the realization of X-rays sources based on carbon nanotubes*
Call FP7-SME-2007 - Grant Agreement N. 222426: 11.11.2008 - 30.01.2011, granted by EU
Global cost: 1.467 keuro; Cost of the Local Research Unit: 238 keuro
Role: Investigator

Faithfully

Daniele Passeri

