

CURRICULUM VITAE OF RICCARDO TOMASELLO

PERSONAL INFORMATION

Name, Surname	Riccardo Tomasello
E-mail	riccardo.tomasello@poliba.it , tomasello.riccardo@pec.it
Nationality	Italian
IEEE Membership	Member n. 92825463 since 2013 of the Italy Section

WORK EXPERIENCE AND TEACHING ACTIVITY

From June 2021	Assistant Professor (Tenure Track) full-time under the art. 24, comma 3, lettera b), of the Law 30 dicembre 2010, n. 240 (type “Senior”), in the sector. ING-IND/31 “Electrical Engineering” at the Department of Electrical and Information Engineering, Politecnico di Bari, Bari, Italy.
July 10 th , 2020	Achievement of the national scientific qualification under the art.16 of the Law n. 240/2010, for the competition sector 09/E1 – ELECTRICAL ENGINEERING for the functions of second level professor (Associate Professor, https://asn18.cineca.it/pubblico/miur/esito-abilitato/09%252FE1/2/4).
From March 2017 to July 2017	Exerciser of Electrical Engineering course for the Bachelor’s degree in Industrial Engineering at the University of Perugia, Department of Engineering, Polo Scientifico Didattico di Terni, Terni, Italy. <i>Head of the course:</i> Prof. Pietro Burrascano
From March 2015 to July 2015	Exerciser of Electrical Engineering course for the Bachelor’s degree in Electronic Engineering at the University of Calabria, Department of Computer Science, Modelling, Electronics and System Science, Arcavacata di Rende, Cosenza, Italy. <i>Head of the course:</i> Prof. Giovanni Finocchio
	Exerciser of Electrical Engineering course for the Bachelor’s degree in Computer Science Engineering at the University of Calabria, Department of Computer Science, Modelling, Electronics and System Science, Arcavacata di Rende, Cosenza, Italy. <i>Head of the course:</i> Prof. Mario Carpentieri
From March 2014 to July 2014	Exerciser of Electrical Engineering course for the Bachelor’s degree in Electronic Engineering at the University of Calabria, Department of Computer Science, Modelling, Electronics and System Science, Arcavacata di Rende, Cosenza, Italy. <i>Head of the course:</i> Prof. Giovanni Finocchio
	Exerciser of Electrical Engineering course for the Bachelor’s degree in Computer Science Engineering at the University of Calabria, Department of Computer Science, Modelling, Electronics and System Science, Arcavacata di Rende, Cosenza, Italy. <i>Head of the course:</i> Prof. Mario Carpentieri

- From March 2013 to July 2013 Exerciser of Electrical Engineering courses for the Bachelor's degrees in Electronic and Computer Science Engineering at the University of Calabria, Department of Computer Science, Modelling, Electronics and System Science, Arcavacata di Rende, Cosenza, Italy.
Head of the courses: Prof. Mario Carpentieri
- From July 2013 Qualified to practice the Engineer Profession and registered with the Ordine degli Ingegneri di Messina, card n. 2834, serial number n. 3876.
- From January 2012 to June 2012 Internship during studies at the Ordine degli Ingegneri di Reggio Calabria, Italy.
Main activity: Preliminary, definitive and executive design of electrical systems

EDUCATION AND TRAINING

- From October 2018 to June 2021 Postdoctoral researcher at the Institute of Applied and Computational Mathematics, Foundation of Research and Technology – Hellas (FORTH), Heraklion, Greece.
Main research activity: Theoretical and micromagnetic study of static and dynamic properties of magnetic skyrmions to develop a skyrmion based technology.
- From December 2015 to December 2017 Postdoctoral researcher (*Assegnista di Ricerca ING-IND/31*) at the University of Perugia, Department of Engineering, Polo Scientifico Didattico di Terni, Terni, Italy.
Main research activity: Pulse compression techniques for ultrasound systems “Phased Array” applied to the non-destructive evaluation in industrial field: software development for the signal processing in linear and non-linear systems.
Supervisor: Prof. Pietro Burrascano
- June 28th, 2017 Postdoctoral researcher at the Scuola Nazionale Dottorandi di Elettrotecnica “Ferdinando Gasparini”
Corso Breve “Introduzione al Chaos: fenomeni ed esperimenti”, by Prof. Mario Biey
- February 19th, 2016 European PhD's degree in “System and Computer Engineering”, Department of Computer Science, Modelling, Electronics and System Science, University of Calabria, Arcavacata di Rende, Cosenza, Italy.
Thesis title: Micromagnetic modeling of spintronic devices: from uniform state to skyrmion.
Supervisor: Prof. Mario Carpentieri
- From November 2012 to November 2015 PhD student attendant in “System and Computer Engineering”, Department of Computer Science, Modelling, Electronics and System Science, University of Calabria, Arcavacata di Rende, Cosenza, Italy.
Main research activity: Micromagnetic modeling of spintronic devices, with particular focus on skyrmion based devices.
Supervisor: Prof. Mario Carpentieri
- From June 14th to June 19th, 2015 PhD student at the IEEE Magnetics Society Summer School at the University of Minnesota, Minneapolis, USA.
Poster: Technological applications of skyrmions
- July 26th, 2012 Master's degree in “Material Science and Engineering”, University of Messina, Messina, Italy.
Final grade: 110/110 summa cum laude.
Thesis title: Dynamics in Spintronic Devices: Effect of the Electrostatic Interaction at CoFeB-MgO Interface.
Supervisors: Prof. Bruno Azzarboni and Prof. Giovanni Finocchio

March 31st, 2011

Bachelor's degree in "Industrial Engineering", University of Messina, Messina, Italy.

Final grade: 110/110 summa cum laude.

Thesis title: Micromagnetic study of the phase locking of spintronic nano-oscillators.

Supervisor: Prof. Bruno Azzerboni

RESEARCH ACTIVITY

Current research sectors

Micromagnetic modeling and design of spintronic devices.

Recent Scientific Activities

- Optimization based on the micromagnetic formalism of the physical and geometrical properties of Magnetic Tunnel Junctions to design Spintronic Magnetic Random Access Memories.
- Micromagnetic study of the magnetization dynamics driven by the Spin-Hall effect.
- Micromagnetic analysis of the effect of the Dzyaloshinskii-Moriya interaction on the Ferromagnetic Resonance response of a Magnetic Tunnel Junction based on the Spin-Hall effect, on the magnetization switching of Magnetic Tunnel Junction, on the magnetic vortex state and corresponding switching properties.
- Micromagnetic modeling of the dynamical properties of magnetic skyrmion lattice and single magnetic skyrmion in confined structures, for applications as racetrack memory.
- Micromagnetic modeling of the Dynamical properties of single magnetic skyrmion in confined structures, for applications as microwave oscillators and detectors.
- Modeling of linear and non-linear systems for non-destructive testing.
- Advanced image processing for improving the defects detection capability in active thermographic inspection.
- Micromagnetic modeling of resonant and non-resonant spintronic microwave detectors.
- Micromagnetic modeling of static and dynamic properties of skyrmions in magnetic multilayers
- Micromagnetic modeling of magnetic solitons static properties and dynamics in antiferromagnets and ferrimagnets

Management, direction, and coordination of national and international research groups or participation to them

From October 2018 to June 2021

Management, direction, and coordination of the research activities of the group within the project Theoretical Understanding of static and dynamic properties of Skyrmions: towards a skyrmion based technology (ThunderSKY, <http://thundersky.iacm.forth.gr>). This project has received funding from the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), under the grant agreement n. 871, and from the European Investment Bank. In addition to the external members, ThunderSKY's research team includes a master degree student as well as a post-doctoral researcher starting from January 2021.

From June 2019 to December 2019

Visiting post-doctoral researcher at the Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, USA.

Main research activity: Micromagnetic modeling of magnetic solitons in antiferromagnets.

Supervisor: Prof. Pedram Khalili Amiri

From January 2018 to June 2018

Visiting post-doctoral researcher at the Department of Mathematical and Computer Sciences, Physical Sciences, and Earth Sciences, University of Messina, Messina, Italy.

Main research activity: Micromagnetic modeling of spintronic diodes, with particular focus on the energy efficiency (input power/output voltage ratio).

Supervisor: Prof. Giovanni Finocchio

From September 2015 to October 2015	<p>Visiting PhD Student at the Department of Applied Physics, University of Salamanca, Salamanca, Spain.</p> <p><i>Main research activity:</i> Micromagnetic modeling of static and dynamical properties of single skyrmion in confined structures, for the design of microwave detectors and SAF racetrack memories.</p> <p><i>Scientific supervisor:</i> Prof. Luis Torres</p>
From November 2014 to December 2014	<p>Visiting PhD Student at the Department of Applied Physics, University of Salamanca, Salamanca, Spain.</p> <p><i>Main research activity:</i> Micromagnetic modeling of dynamical properties of single skyrmion in confined structures, such as spin-valves and magnetic tunnel junctions.</p> <p><i>Scientific supervisor:</i> Prof. Luis Torres</p>
From February 2014 to March 2014	<p>Visiting PhD Student at the Department of Physics, Bogazici University, Istanbul, Turkey.</p> <p><i>Main research activity:</i> Micromagnetic modeling of Shape assisted nucleation of chiral magnetization configurations.</p> <p><i>Scientific supervisor:</i> Prof. Ozhan Ozatay</p>
From August 2013 to December 2013	<p>Visiting PhD Student at the Department of Applied Physics, University of Salamanca, Salamanca, Spain.</p> <p><i>Main research activity:</i> Micromagnetic modeling of static and dynamical properties of skyrmion lattice and single skyrmion in confined structures, for the design of racetrack memory.</p> <p><i>Scientific supervisors:</i> Prof. Luis Torres and Prof. Eduardo Martinez</p>
From September 2012 to October 2012	<p>Visiting student at the Department of Physics, University of Irvine, Irvine, California.</p> <p><i>Main research activity:</i> Micromagnetic modeling of dynamical properties of the magnetization in Magnetic Tunnel Junctions.</p> <p><i>Scientific Supervisor:</i> Prof. Ilya Krivorotov</p>

Main active scientific collaborations

- Prof. Luis Torres (email: luis@usal.es) and Prof. Eduardo Martinez (email: edumartinez@usal.es), Department of Applied Physics, University of Salamanca, Salamanca, Spain.
- Prof. Ozhan Ozatay (email: ozhan.ozatay@boun.edu.tr), Department of Physics, Bogazici University, Istanbul, Turkey.
- Prof. Stavros Komineas (email: komineas@uoc.gr), Department of Applied Mathematics, University of Crete, Heraklion, Greece.
- Prof. Zhongming Zeng (email: zmzeng2012@sinano.ac.cn), Suzhou Institute of Nanotech and Nanobionics, Suzhou, China
- Prof. Pedram Khalili-Amiri (email: pedram@northwestern.edu), Department of Electrical and Computer Engineering, Northwestern University, Evanston, Illinois, USA.
- Prof. Guoqiang Yu (email: guoqiangyu@iphy.ac.cn), Chinese Academy of Science, Beijing, China.
- Dr. Oksana Chubikalo-Fesenko (email: oksana@icmm.csic.es), Instituto de Ciencia de Materiales de Madrid, Madrid, Spain
- Prof. Wanjun Jiang (email: jiang_lab@mail.tsinghua.edu.cn), Department of Physics, Tsinghua University, Beijing, China.

- Prof. Hans Josef Hug (email: *Hans-Josef.Hug@empa.ch*) Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland.
- Prof. Aurelien Manchon (email: *manchon@cinam.univ-mrs.fr*) Interdisciplinary Center of Nanoscience of Marsiglia, Aix-Marseille University, France.
- Prof. Christos Panagopoulos (email: *christos@ntu.edu.sg*), Division of Physics and Applied Physics" Nanyang Technological University, Singapore.

Coordination/Participation Research Projects

2018-2021

Theoretical Understanding of static and dynamic properties of Skyrmions: towards a skyrmion based technology (ThunderSKY, <http://thundersky.iacm.forth.gr>).

This project has received funding from the Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), under grant agreement No 871, and from the European Investment Bank.

Role: Scientific Coordinator.

2016-2018

Executive program of scientific and technological cooperation between Italy and China for the years 2016–2018 entitled “Nanoscale broadband spin-transfer-torque microwave detector” funded by Ministero degli Affari Esteri e Cooperazione Internazionale (MAECI) grant n° CN16GR09.

Scientific coordinators: Prof. Giovanni Finocchio and Prof. Zhongming Zeng

Role: In charge for the micromagnetic modeling and numerical simulations of the broadband spintronic diode.

2015-2016

Bilateral agreement Italy-Turkey project (CNR-TUBITAK, CNR Code B52I14002910005, TUBITAK Code 113F378) entitled “Nanoscale magnetic devices based on the coupling of Spintronics and Spinorbitronics”.

Scientific coordinators: Dr. Paola Tiberto and Prof. Ozhan Ozatay.

Role: In charge for the micromagnetic modeling and numerical simulations of non-uniform configurations of the magnetization, such as radial vortex and skyrmion, and support to the experimental observation of those textures.

Achievement of national and international awards and recognitions for the research activity

2019

Young Researcher Award

Riccardo Tomasello, “*for the outstanding scientific activity carried out in the field of magnetism, and, in particular, in the study of the performances of perpendicular STT-MRAM characterized by a double reference layer*”.

4th Edition of the Young Researcher Award, Annual Meeting of the IEEE Magnetics Society – Italy Chapter, Bari, Italy, December 17th, 2019.

Best Poster Award

Israa Medlej, Riccardo Tomasello, Anna Giordano, Stefano Chiappini, Roberto Zivieri, Giulio Siracusano, Vito Puliafito, Aurelio La Corte, Mario Carpentieri, Zhongming Zeng, “*Control of the skyrmion Hall angle by combining spin-Hall effect, anisotropy gradient, breathing mode and in-plane field*”.

6th Italian Conference on Magnetism, Messina, Italy, January 30th - February 1st, 2019.

2018

Young Researcher Award

Riccardo Tomasello, “*Theoretical study of skyrmion stationary behavior and dynamics*”.

2nd IEEE Conference on Advance in Magnetism, La Thuile, Italy, February 4th-7th, 2018.

2017

Best Presentation Award

Marco Ricci, Giuseppe Silipigni, Stefano Laureti, Luca Senni, Riccardo Tomasello, Pietro Burrascano, “*Optimal design of Chirp excitations for pulse-compression thermography*”.

8th International Workshop on Advances in Signal Processing for Non-Destructive Evaluation of Materials, Québec, Canada, September 27th – 29th, 2017.

Best Conference Paper Award

Pietro Burrascano, Marco Ricci, Luca Senni, Riccardo Tomasello, Stefano Laureti, “*Improving range resolution in pulse-compression ultrasonic systems by optimal filtering*”.

2017 IEEE International Conference on Applied System Innovation, paper 0307, Sapporo, Japan, May 13th – 17th, 2017.

2016

Best Poster Award

Riccardo Tomasello, Marco Ricci, Pietro Burrascano, Vito Puliafito, Mario Carpentieri, Giovanni Finocchio, “*Electrical detection of single magnetic skyrmion at room temperature*”.

61st Annual Conference on Magnetism and Magnetic Materials, paper ET-02, New Orleans, Louisiana, October 30th – November 4th, 2016.

Editorial Activity

Referee for the peer-reviewed journals:

IEEE Transaction on Magnetics, IEEE Magnetic Letters, Scientific Reports, Physica B, Physics Letter A, Journal of Magnetism and Magnetic Materials, Journal of Applied Physics, Physical Review B, Physical Review Letters, Physical Review Applied

2019

- Chairman of the Oral Session FI “*Micromagnetics And Hysteresis Modeling IP*”.
64th Annual Magnetism and Magnetic Materials Conference, Las Vegas, Nevada, November 4th-8th, 2019.

2018

- Chairman of the Poster Session L11 “*Skyrmions I*”.
21st International Conference on Magnetism (ICM), San Francisco, CA, USA, July 25th – 20th, 2018.
- Chairman of the Oral Session “*Spin orbit torque and skyrmions*”.
2nd IEEE Conference on Advance in Magnetics, La Thuile, Italy, February 4th-7th, 2018.

2016

- Chairman of the Oral Session “*Nanomagnetism and Spintronics part IV*”.
1st IEEE Conference on Advances in Magnetics, Bormio, Italy, March 14th-16th, 2016.

2014

- Chairman of the Poster Session AS “*Special materials and skyrmions*”.
59th Annual Magnetism and Magnetic Materials Conference, Honolulu, Hawaii, November 3rd-7th, 2014.

Publications of Books/Chapters

2021

BC1 Riccardo Tomasello, Luis Sánchez-Tejerina, Mario Carpentieri, “7 - *Dynamics of Magnetic Skyrmions*”, in Woodhead Publishing Series in Electronic and Optical Materials, edited by G. Finocchio and C. Panagopoulos (Woodhead Publishing, 2021), pp. 233–254.

Organization of Conferences/Workshops/Annual Meetings

2022

- Organization and Co-Chair of the Symposium “*Spintronic Diodes: Challenges and New Directions*”.
Joint MMM-Intermag conference, New Orleans, Louisiana, USA, January 10th – 14th, 2022. (<https://events-siteplex.confcats.io/magnetism/wp-content/uploads/sites/82/2022/02/2022-Joint-Program-Book-Final-COMplete.pdf>).

2021

- Organization and Chair of the Session “*Skyrmions*”.
Advance in Magnetism, virtual conference, June 13th – 16th, 2021 (<http://www.aim2020.poliba.it/wordpress/wp-content/uploads/2021/06/AIM2021-program-w-names-JUNE14.pdf>).
- Organization and Chair of the Symposium “*New Trends in Skyrmionics: Materials, Dynamics and Detection Techniques*”.
INTERMAG 2021, virtual conference, April 26th – 30th, 2021 (<https://intermag.org/program-overview>).

2020

- General Co-Chair of the International Virtual Workshop on Magnetic Skyrmions, July 7th, 2020 (<https://www.petaspin.com/program-5/>).
- General Co-Chair of the International Workshop “Topological Patterns and Dynamics in Condensed Matter and in Micromagnetics”, Heraklion, Greece, July 3rd, 2020.

2019

- General Co-Chair of the 12th International Symposium on Hysteresis Modeling and Micromagnetics (HMM 2019), Heraklion-Crete, Greece, May 19th-22nd, 2019 (<https://www.sciencedirect.com/journal/physica-b-condensed-matter/special-issue/1006M7HW8M6>).
- General Co-Chair of the International Workshop “Patterns and Topology in Micromagnetics”, Heraklion, Greece, May 16th-17th, 2019.
- Member of the Local Organizing Committee of the 6th Italian Conference on Magnetism, Messina, Italy, January 30th February 1st, 2019.

2018

- General Co-Chair of the Annual Meeting of the IEEE Magnetism Society – Italy Chapter, Gioiosa Marea (ME), Italy, June 3rd-6th, 2018.

Participation as speaker in national and international conferences and conventions

Contributions as invited speaker

2021

IC5 Riccardo Tomasello, “*Role of current driven torques on skyrmion motion in Antiferromagnets*”.
Advance in Magnetism, virtual conference, June 13th – 16th, 2021 (<http://www.aim2020.poliba.it/wordpress/wp-content/uploads/2021/06/AIM2021-list-of-Orals-JUNE14.pdf>)

2020

- IC4 Riccardo Tomasello, “*Micromagnetic modeling and simulations of spintronic devices including non-trivial magnetic textures*”.
Online 9th International Young Scientists Conference in Computational Science, September 5th-13th, 2020.

2018

- IC3 Riccardo Tomasello, “*Theoretical study of skyrmion stationary behavior and dynamics*”.
2nd IEEE Conference on Advances in Magnetism, La Thuile, Italy, February 4th-7th, 2018.

2017

- IC2 Riccardo Tomasello, Konstantin Guslienko, Marco Ricci, Anna Giordano, Joseph Barker, Mario Carpentieri, Oksana Chubykalo-Fesenko, Giovanni Finocchio, “*Origin of temperature and field dependence of magnetic skyrmion size in ultrathin nanodots*”.
International IEEE Workshop on Frontiers in Brain Inspired Computing – Magnetism meets Topology, Messina, Italy, July 26th-28th, 2017.

2016

- IC1 Riccardo Tomasello, Eduardo Martinez, Aurelien Manchon, Mario Carpentieri, Giovanni Finocchio, “*Performance of racetrack memories: skyrmions vs. domain walls*”.
“Frontiers in Magnetism II”, annual meeting of the IEEE Magnetism Society – Italy Chapter, Messina, Italy, June 15th, 2016.

*Contributions as speaker***2020**

- C14 Riccardo Tomasello, “*Micromagnetic study of skyrmion stabilization in magnetic multilayers*”.
International Workshop “Topological Patterns and Dynamics in Condensed Matter and in Micromagnetics”, Heraklion, Greece, July 3rd, 2020.

2019

- C13 Riccardo Tomasello, Anna Giordano, Mario Carpentieri, Guoqiang Yu, Giovanni Finocchio, “*Micromagnetic study of skyrmions in magnetic multilayers*”.
64th Annual Magnetism and Magnetic Materials Conference, Las Vegas, Nevada, November 4th – 8th, 2019.
- C12 Riccardo Tomasello, “*Skyrmion stability and dynamics in ferromagnets*”.
International Workshop “Patterns and Topology in Micromagnetics”, Heraklion, Greece, May 16th – 17th, 2019.
- C11 Riccardo Tomasello, “*Thermodynamic analogy between magnetic skyrmions and ideal gases: a Boltzmann function based configuration entropy calculation*”.
6th Italian Conference on Magnetism, Messina, Italy, January 30th – February 1st, 2019.
- C10 Roberto Zivieri, Riccardo Tomasello, Mario Carpentieri, Oksana Chubykalo-Fesenko, Giovanni Finocchio, “*Statistical thermodynamic approach for the computation of the entropy of a magnetic skyrmion*”.
Joint MMM-Intermag conference, Washington, DC, USA, January 14th – 18th, 2019.

2017

- C9 Riccardo Tomasello, Konstantin Guslienko, Marco Ricci, Anna Giordano,

Joseph Barker, Mario Carpentieri, Oksana Chubykalo-Fesenko, Giovanni Finocchio, “*Temperature and field dependence of skyrmion size in circular nanodots*”.

62th Annual Conference on Magnetism and Magnetic Materials, Pittsburgh, Pennsylvania, November 6th – 10th, 2017.

C8 Mario Carpentieri, Riccardo Tomasello, Giovanni Finocchio, “*Micromagnetic study of magnetization switching in double magnetic tunnel junctions*”.

62th Annual Conference on Magnetism and Magnetic Materials, Pittsburgh, Pennsylvania, November 6th – 10th, 2017.

C7 Riccardo Tomasello, “*Skyrmion magnetici: dalle proprietà base alle applicazioni tecnologiche*”.

ET 2017, XXXIII Riunione Annuale dei Ricercatori di Elettrotecnica, Milan, Italy, June 29th – 30th, 2017.

2016

C6 Riccardo Tomasello, Marco Ricci, Giulio Siracusano, Pietro Burrascano, Zhongming Zeng, Mario Carpentieri, Giovanni Finocchio, “*Influence of the second order perpendicular anisotropy on the spin-torque diode effect in MTJ and implications on energy harvesting*”.

61st Annual Conference on Magnetism and Magnetic Materials, New Orleans, Louisiana, October 30th – November 4th, 2016.

C5 Giulio Siracusano, Riccardo Tomasello, Anna Giordano, Vito Puliafito, Bruno Azzerboni, Mario Carpentieri, Giovanni Finocchio, “*Stability and dynamics of radial vortex with interfacial Dzyaloshinskii–Moriya Interaction*”.

1st IEEE Conference on Advances in Magnetism, Bormio, Italia, March 14th – 16th, 2016.

C4 Giovanni Finocchio, Marco Ricci, Riccardo Tomasello, Anna Giordano, Marco Lanuzza, Vito Puliafito, Pietro Burrascano, Bruno Azzerboni, Mario Carpentieri, “*Skyrmion based microwave detectors and harvesting*”.

1st IEEE Conference on Advances in Magnetism, Bormio, Italia, March 14th – 16th, 2016.

2014

C3 Riccardo Tomasello, Eduardo Martinez, Roberto Zivieri, Luis Torres, Mario Carpentieri, Giovanni Finocchio, “*Skyrmion based racetrack memories*”.

59th Annual Magnetism and Magnetic Materials Conference, Honolulu, Hawaii, November 3rd – 7th, 2014.

C2 Riccardo Tomasello, Mario Carpentieri, Giovanni Finocchio, “*Synchronization scheme of three terminal MTJ devices*”.

20th IMEKO TC-4, International Symposium, Special Session on Synchronization service for measurement and monitoring, Benevento, Italy, September 15th – 17th, 2014.

2013

C1 Riccardo Tomasello, Mario Carpentieri, “*Magnetization Dynamics driven by the Spin-Hall: Effect in three terminal MTJ devices*”.

9th International Symposium on Hysteresis Modelling and Micromagnetics, Taormina, Italy, May 13th – 15th, 2013.