

Dr.Alberto Riminucci

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Experience

2012-present: Permanent research scientist at the Institute for the Study of Nanostructured Materials, National Research Council, Italy

2009-2012: Temporary research scientist at the Institute for the Study of Nanostructured Materials, National Research Council, Italy

2003-2009: Postdoctoral scientist at the Institute for the Study of Nanostructured Materials, National Research Council, Italy

1998-1999 Software developer, Research& Development division, Biesse group, Pesaro, Italy

Appointments

2023- Scientific management of the Magnetotransport Measurement Facility, CNR-ISMN

Education

1999-2004: PhD on “Electrodeposited superconducting Pb, Pb-Cu and Pb-Co nanowires”, University of Bristol, UK

Undergraduate laboratory demonstrator, University of Bristol, UK

1993-1998: MSc in Theoretical Physics, top marks, University of Bologna, Italy

Languages

	Writing	Reading	Listening	Speaking
Italian	C2	C2	C2	C2
English	C2	C2	C2	C2

Grants:

2023-2025 Concealable and anti-tampering magneto-memristive physical unclonable functions (CAMOUFLAGE), Italian Ministry of University and Research, PRIN 2022 PNRR, Principal Investigator, 227'485€, 127'022€ for CNR, evaluated first in “PE3-Condensed matter” with 98/100

2023-2025	Royal Society International Exchanges 2022 Round 3, co-applicant with Prof.Arzhang Ardavan, University of Oxford, UK, 12k€
2022	Short Term Mobility program, CNR, "Molecular spintronic devices for neuromorphic computing", University of California, Santa Barbara, 5.3k€
2021 -2025	H2020 Project SINFONIA "Hybrid interfaces enable information and communication technology at the nanoscale", topic FETOPEN-01-2018-2019-2020 - FET-Open Challenging Current Thinking, CNR budget 415k€
2021 - 2024	H2020 Project INTERFAST "'Gated' control of spin-orbit coupling enables very fast manipulation of magnetism", topic FETOPEN-01-2018-2019-2020 - FET-Open Challenging Current Thinking, CNR budget 448k€
2017 - 2019	H2020 Project MADIA " <i>Magnetic Diagnostic Assay for neurodegenerative diseases</i> ", topic ICT-03-2016 "SSI - Smart Systems Integration", CNR budget 701k€
2011 - 2014	FP7 European project HINTS:" <i>Next Generation Hybrid Interfaces for Spintronic Applications</i> ", CNR budget 412k€

Proposals submitted as coordinator with above threshold evaluation:

2023	Spin Current-cOntRolled MOleculaR quANtum sysTems (CORMORANT), HORIZON-EIC-2023-PATHFINDEROPEN-01-01, evaluation 4.05
2022	Neuromorphic spintronic and polymeric materials for artificial intelligence at the edge(NeuEdge), HORIZON-CL4-2022-RESILIENCE-01, evaluation 11.5/15, threshold 10/15
2019	Adaptive Smart Technologies for Edge Computing (ASTER), H2020-ICT-2019-2, evaluation 11/15, threshold 10/11

Awards

1993	Winner of the High School Mathematics Olympics Competitive admission to the San Tommaso d'Aquino college, Bologna, Italy Competitive admission to the Almo Collegio Borromeo college, Pavia, Italy
1990	Placed 4 th at the regional Chemistry Olympics

Patents

2014	Analytical balance-based magnetometer, file # RM2014A000332 Inventors: Alberto Riminucci , Mauro Paoletti, Federico Bona
2012	WO Patent 2,013,050,983: Logic gate and corresponding operation method Inventors: Valentin Dediu, Alberto Riminucci , Ilaria Bergenti, Mirko Prezioso, Patrizio Graziosi

Consultancy work

2018	Amarc s.r.l., Advise on the working principle and marketing potential of an innovative magnetic induction oven used to warm up the contents of industrial barrels
2015	Tecnofar s.p.a., Solve the problem of demagnetization of a magnetic tool in a production line

Teaching and outreach activities

2019-ongoing	Informal science demonstrations for children from disadvantaged backgrounds
2018	Summer school “MolSpin2018”, “Interplay between charge and spin conductance in molecular semiconductors and its applications”, 8th October, Mainz, Germany
2016-ongoing	Outreach activities in high schools (11-19 years of age)
2011-2016	CNR-ISMN: Supervisor for summer internships for top-of-the-class high school students
1999-2002	University of Bristol: Laboratory demonstrator for 1 st and 2 nd year undergraduate students

Students

2017	Federico Troncossi, University of Bologna, final year project, “Sintesi e Caratterizzazione di Nanoparticelle di Oro Supportate su Magnetite Funzionalizzata”
2016	Marco Calbucci, PhD student at the University of Bologna, title: “Charge and spin transport in memristive organic LSMO/Alq3/AlOx/Co spin valves” Giovanni Mazzoni, University of Bologna, internship

Recruitment panels

2022	Evaluation of candidates for a one year contract, call ISMN/010/2022/BO, date 06/09/2022, “Interface-based nanostructures hybrids for innovative magnetic devices” Evaluation of candidates for a one year contract, call ISMN/001/2022/BO, date 13/01/2022, “Hybrid interfaces for spintronics and magnonics”
2018	Evaluation of candidates for a one year contract, call ISMN/002/18/BO, date 03/05/2018, “Fabrication, using vacuum growth techniques and solution techniques, of light-emitting and light-sensing devices based on organic and hybrid materials on substrates, including flexible ones. Optical and optoelectronic characterization of these devices under controlled environmental conditions”
2017	Evaluation of candidates for a one year contract, call ISMN/003/17/BO, date 18/01/2017, “Manufacturing and assembly of magnetic sensors for bio-diagnostic devices”
2014	Evaluation of candidates for a one year contract, call ISMN/003/14/BO, date 18/2/2014, “Fabrication with biocompatible materials and through functionalization of scaffold surfaces useful for cell growth and differentiation. Cell growth and differentiation on functionalized substrates”
2013	Evaluation of candidates for a one year contract, call ISMN/012/13/BO, date 23/10/2013, “Fabrication of complex magnetic oxide films for hybrid spintronic devices” Evaluation of candidates for a one year contract, call ISMN-BO-002-2013 art.15, date 19/3/2013, “Fine-tuning of a CSA (channel spark ablation) type electron gun, development and construction of the gas tube system (argon), and of the valve system for the operation of the gun for electronic, spintronic and bio-medical applications”

Evaluator for scientific proposals

2021	Cyprus RESTART 2016-2020
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2020 Latvia Central Finance and Contracting Agency

2016-2017 Horizon 2020, COST (European Cooperation in Science and Technology)

Journal reviewer

Advanced Materials (Impact Factor 2021 **32**)
 Nature Physics (Impact Factor 2021 **19**)
 Physical Review Letters (Impact Factor 2021 **9**)
 Journal of Materials Chemistry C (Impact Factor 2021 **8**)
 Applied Physics Letters (Impact Factor 2021 **4**)
 New Journal of Physics IOP (Impact Factor 2022-2023 **3.7**)
 Journal of Materials Science: Materials in Medicine (Impact Factor 2020 **3.9**)
 Biomedical Materials ((Impact Factor 2020 **3.7**)
 Synthetic Metals (Impact Factor 2020 **3.3**)
 Applied Physics A (Impact Factor 2021 **3**)
 Journal of Applied Physics (Impact Factor 2021 **2.9**)

Books chapters

A.Riminucci, M.Prezioso, P.Graziosi, Perspectives on organic spintronics, chapter in “Organic Electronics: emerging concepts and application”, edited by F.Cicoira and C.Santato, Wiley-VCH Verlag GmbH & Co. KGaA, 2013, pages 381-400, Print ISBN: 978-3-527-41131-3, ePDF: ISBN: 978-3-527-65099-6

A.Riminucci, M.Prezioso, V.Dediu, Organic Spintronics Toward Sensor and Memory Applications, chapter in “Organic Spintronics” edited by Z.V.Vardeny, CRC Press, 2010, ISBN-10: 143980656X, ISBN-13: 978-1439806562

Invited Talks

2022 **Invited:** CIMTEC, “Organic Spintronic Multilevel Resistive Switching Devices as Synapses for Neuromorphic Computing”, June 26th-29th, 2022, Perugia

2019 **Invited:** AIMagn Colloquium, “*Charge and spin transport in molecular spin valves with multilevel resistive switching*”, September 3rd, 2019, Bologna

2018 **Invited:** WG1&2 COST workshop, “*Spins and interfaces*”, 25th October, Peñíscola, Spain

2017 **Invited:** EMN Magnetic Nanomaterials 2017, “*Organic spintronic devices: transport regimes and applications to neuromorphic computing*”, 8-12 August, Lyon, France

2016 **Invited:** EcMols2016, “*Transport regimes in organic spintronic devices*”, 15-18 November, Bologna, Italy

2015 **Invited:** Energy Materials Nanotechnology Spain Meeting, San Sebastian

2014 **Invited:** Nano and Giga Challenges, Phoenix(AZ), USA

2013 **Invited:** MiMe-Materials in Medicine, Faenza, October 8-11

2012 **Invited:** AVOGADRO COLLOQUIA, Bologna, Italy

2011 **Invited:** Functional Metalorganics — Magnetism, structure, transport, Uppsala, Sweden

2010 **Invited** talk presso il “Center for Nanophysics and Advanced Materials”, “*Organic spintronics devices*”, 29th of January, University of Maryland, US

Invited: CMOS Emerging technologies research, “*Potential applications of organic spintronic devices*”, May 19-21 Whisler(BC), Canada

- 2005 **Invited** talk at Jozef Stefan Institute, *"Microstructure and magnetic behaviour of electrodeposited superconducting"*

Chairing/organization of conferences

- 2022 Chair, CIMTEC, symposium "Emerging Materials, Technologies and Applications for Non-volatile Memory and Memristive Devices", June 26th-29th, 2022, Perugia
- 2015 Magnet2015 (Italian Magnetism Association), member of the organizing committee
- 2013 Cochair, MiMe-Materials in Medicine, "Magnetic Nanomaterials for Biomedical Applications", October 8th -11th Faenza, Italy

Conferences and workshops

- 2022 ECMOLS 2022, "Organic spintronic multilevel resistive switching devices as synapses for neuromorphic computing", 5-8 April 2022, Dortmund, Germany
- 2021 Trends in MAGnetism 2020, "Organic spintronic multilevel resistive switching devices as synapses for neuromorphic computing", 6-10 September 2021, Cefalù, Italy
- 2018 NanoInnovation 2018, "Magnetic Assembling of 3D cellular architectures", 11-14 September, Rome, Italy
- Joint European Magnetic Symposia, *"Transport regimes of organic spintronic devices and applications in neuromorphic computing"*, 2-7 September, Mainz, Germany
- CIMTEC 2018 - 14th International Conference on Modern Materials and Technologies, *"Understanding organic spintronic devices and their applications to neuromorphic computing"*, 10-14 June, Perugia, Italy
- 2016 Joint European Magnetic Symposia, *"Magnetoresistance regimes in organic spintronic devices"*, 21-26 August, Glasgow, United Kingdom
- 2015 Magnet2015, *"Hanle effect missing in a prototypical organic spintronic device"*, 17-19 February, Bologna, Italy
- 2013 Joint European Magnetic Symposia, *"Multifunctional Organic Spintronic Device Acting As A Magnetically Enhanced Memristor"*, 26-30 August, Rhodes, Greece
- European Materials Society Meeting, *"Multifunctional organic spintronic device acting as a magnetically enhanced memristor"*, 16-20 September, Warsaw, Poland
- 2012 AVOGADRO COLLOQUIA, *"Magnetic biosensors"*, 29th October, Bologna, Italy
- 2010 Joint MMM/Intermag Conference, Washington, USA
- CMOS Emerging Technologies Research Conference, Whistler(BC), Canada
- 2009 European Materials Society Meeting, Warsaw, Poland
- Materials Research Meeting, Spring meeting, San Francisco, USA
- FOXE Functional Oxides for Electronics
- SPINOS 2009
- 2008 Joint European Magnetic Symposia, Dublin, Ireland
- III KMM-NoE INDUSTRIAL WORKSHOP, Torino
- Scientific and Clinical Applications of Magnetic Carriers, Vancouver, Canada
- 2007 SpinOS, Bologna
- 2006 International Conference on Magnetism, Kyoto, Giappone
- Physics and Application of Spin-related Phenomena in Semiconductors, Sendai, Giappone
- 2005 European Conference on Molecular Electronics, Bologna
- 2004 Condensed Matter and Material Physics, Warwick, United Kingdom

- 2002 American Physical Society March meeting, Indianapolis, Indiana, USA
- 2001 Mesoscopic phenomena in superconductors, Bristol, United Kingdom
- 2000 Electrochemical Society Meeting, Dublin, Ireland
Condensed Matter and Material Physics, Bristol, United Kingdom
- 1999 Mesoscopic phenomena in superconductors, Lancaster, United Kingdom

Research articles:

Number of citations (google scholar): 1913

H-index (google scholar): 20

P.Graziosi, I.Bergenti, L.Vistoli, F.Galassi, M.Calbucci, [A.Riminucci](#), F.Borgatti, D.A.MacLaren, K.J. O'Shea, G.Vinai, P.Torelli, G.Panaccione, V.Kabanov, V.A.Dediu, *Spin injection in the doped bad metal SrTiO₃*, Phys. Rev. Research 5, 033096, DOI: 10.1103/PhysRevResearch.5.033096, published 10 August 2023

M.Benini, G.Allodi, Al.Surpi, [A.Riminucci](#), K.Lin, S.Sanna, V.A.Dediu, I.Bergenti, *In-Depth NMR Investigation of the Magnetic Hardening in Co Thin Films Induced by the Interface with Molecular Layers*, Advanced Materials Interfaces, pages 2201394, 20th October 2022, DOI: 10.1002/admi.202201394, published 2022

I.Bergenti, T.Kamiya, D.Li, [A.Riminucci](#), P.Graziosi, D.A.MacLaren, R.K.Rakshit, M.Singh, M.Benini, H.Tada, A.Smogunov, V.A.Dediu, *Spinterface Effects in Hybrid La_{0.7}Sr_{0.3}MnO₃/SrTiO₃/C60/Co Magnetic Tunnel Junctions*, 24th August 2022, DOI: 10.1021/acsaelm.2c00300, published 2022

A.Mazzaglia, G.Di Natale, R.Tosto, A.Scala, G.Sortino, A.Piperno, M.P.Casaletto, [A.Riminucci](#), M.L.Giuffrida, P.G.Mineo, V.Villari, N.Micali, G.Pappalardo, *KLFFF Oligopeptide-Decorated Amphiphilic Cyclodextrin Nanomagnets for Selective Amyloid Beta Recognition and Fishing*, Journal of Colloid and Interface Science, Volume 613, May 2022, Pages 814-826, DOI: 10.1016/j.jcis.2022.01.051, published 2022

M.Giannelli, M.Barbalinardo, [A.Riminucci](#), K.Belvedere, E.Boccalon, G.Sotgiu, F.Corticelli, G.Ruani, R.Zamboni, A.Aluigi, T.Posati, *Magnetic keratin/hydrotalcites sponges as potential scaffolds for tissue regeneration*, Applied Clay Science, Volume 207, 15 June 2021, 106090, DOI: 10.1016/j.clay.2021.106090, published 2021

I.Bergenti, [A.Riminucci](#), P.Graziosi, C.Albonetti, M.Benini, S.Toffanin, S.G.Lopez, R.K.Rakshit, M.Singh, P.D.Bentley, I.A.Melchakova, P.V.Avramov, V.A.Dediu, A.Pratt, *Spinterface Formation at α -Sexithiophene/Ferromagnetic Conducting Oxide*, J. Phys. Chem. C 2021, 125, 11, 6073–6081, DOI: 10.1021/acs.jpcc.0c09713, published 2021

[A.Riminucci](#), R.Legenstein, *Fast learning synapses with molecular spin valves via selective magnetic potentiation*, arXiv:1903.08624, published 2019

[A.Riminucci](#), Z.G. Yu, M.Prezioso, R.Cecchini, I.Bergenti, P.Graziosi, V.A.Dediu, *Controlling magnetoresistance by oxygen impurities in Mg₃-based molecular spin valves*, ACS Applied Materials and Interfaces, DOI: 10.1021/acsaami.8b20423, published 2019

J.P.Prieto-Ruiz, S.García Miralles, H.Prima-García, A.López-Muñoz, [A.Riminucci](#), P.Graziosi, M.Aeschlimann, M.Cinchetti, V.A.Dediu, E.Coronado, *Enhancing Light Emission in Interface Engineered Spin-OLEDs through Spin-Polarized Injection at High Voltages*, Advanced Materials, DOI: 10.1002/adma.201806817, published 2019

F.Schleicher, M.Studniarek, K.S.Kumar, E.Urbain, K.Katcko, J.Chen, T.Frauhammer, M.Hervé, U.Halisdemir, L.M.Kandpal, D.Lacour, **A.Riminucci**, L.Joly, F.Scheurer, B.Gobaut, F.Choueikani, E.Otero, P.Ohresser, J.Arabski, G.Schmerber, W.Wulfhekel, E.Beaupaire, W.Weber, S.Boukari, M.Ruben, M.Bowen, *Linking electronic transport through a spin crossover thin film to the molecular spin state using X-ray absorption spectroscopy operando techniques*, ACS Applied Materials and Interfaces, DOI:10.1021/acsami.8b11495, published 2018

B.Ballarin, M.C.Cassani, D.Nanni, C.Parise, D.Barreca, G.Carraro, **A.Riminucci**, I.Bergenti, V.Morandi, A.Migliori, E.Boanini, *Structure, morphology and magnetic properties of Au/Fe₃O₄ nanocomposites fabricated by a soft aqueous route*, Ceramics International, DOI:10.1016/j.ceramint.2018.09.188, published 2018

A.Riminucci, P.Graziosi, M.Calbucci, R.Cecchini, M.Prezioso, F.Borgatti, I.Bergenti, V.A.Dediu, *Low intrinsic carrier density LSMO/Alq₃/AlO_x/Co organic spintronic devices*, Applied Physics Letters, DOI: 10.1063/1.5006387, published 2018

I.Bergenti, F.Borgatti, M.Calbucci, **A.Riminucci**, R.Cecchini, P.Graziosi, D.A.MacLaren, A.Giglia, J.P.Rueff, D.Céolin, L.Pasquali, V.A. Dediu, *Oxygen impurities link bistability and magnetoresistance in organic spin valves*, ACS applied materials & interfaces, DOI:10.1021/acsami.7b16068, published 2018

A.Riminucci, M.Uhlarz, R.De Santis, T.Herrmannsdörfer, *Analytical balance-based Faraday magnetometer*, Journal of Applied Physics, DOI:10.1063/1.4977719, published 2017

A.Riminucci, W.Schwarzacher, *Coexistence of superconductivity and superparamagnetism in Pb–Co electrodeposited nanowires*, Applied Physics A, DOI:10.1007/s00339-017-0782-z, published 2017

J.P.Prieto-Ruiz, S.G.Miralles, H.Prima-García, **A.Riminucci**, P. Graziosi, M.Cinchetti, M.Aeschlimann, V.A. Dediu, E.Coronado, arXiv preprint, arXiv:1612.00633, published 2016

I.Martínez, J.P. Cascales, Jhen-Yong Hong, Minn-Tsong Lin, M.Prezioso, **A.Riminucci**, V.A. Dediu, F.G. Aliev, SPIE Proceedings, DOI: 10.1117/12.2237721, published 2016

P.Graziosi, A.Gambardella, M.Calbucci, K.O'Shea, D.A.MacLaren, **A.Riminucci**, I.Bergenti, S.Fugattini, M.Prezioso, N.Homonnay, G.Schmidt, D.Pullini, D.Busquets-Mataix, V.Dediu, *Seed layer technique for high quality epitaxial manganite films*, AIP advances, DOI: 10.1063/1.4961228, 2016

Sangram K Samal, ..., **Alberto Riminucci**, et al., *Multilayered Magnetic Gelatin Membrane Scaffolds*, ACS applied materials & interfaces, DOI: 10.1021/acsami.5b06813, published 2015

M.Cavallini, P.Graziosi, M.Calbucci, D.Gentili, R.Cecchini, M.Barbalinardo, I.Bergenti, **A.Riminucci**, V.Dediu, *Selective electrochemical decomposition of outgrowths and nanopatterning in La_{0.7}Sr_{0.3}MnO₃ perovskite thin films*, Scientific Reports, doi:10.1038/srep07397, published 2014

A.Riminucci, C.Dionigi, C.Pernechele, G. De Pasquale, T.De Caro, G.M.Ingo, F.Mezzadri, N.Bock, M.Solzi, G.Padeletti, M.Sandri, A.Tampieri, V.A.Dediu, *Magnetic and morphological properties of ferrofluid-impregnated hydroxyapatite/collagen scaffolds*, Science of Advanced Materials, doi:10.1166/sam.2014.1986, published 2014

A.Riminucci, W.Schwarzacher, *Magnetic signature of granular superconductivity in electrodeposited Pb nanowires*, Journal of Applied Physics, doi: 10.1063/1.4882022, published 2014

P.Graziosi, **A.Riminucci**, M.Prezioso, C.Newby, D.Brunel, I.Bergenti, D.Pullini, D.Busquets-Mataix, M.Ghidini, V.A.Dediu, Pentacene thin films on ferromagnetic oxide: Growth mechanism and spintronic devices, Applied Physics Letters, doi:10.1063/1.4890328, published 2014

P.Graziosi, A.Gambardella, M.Prezioso, **A.Riminucci**, I.Bergenti, N.Homonnay, G.Schmidt, D.Pullini, and D.Busquets-Mataix, Polaron framework to account for transport properties in metallic epitaxial manganite films, Physical Review B, doi: 10.1103/PhysRevB.89.214411, published 2014

C.Dionigi, Y.Pineiro, **A.Riminucci**, M.Banobre, J.Rivas, V.Dediu, Regulating the thermal response of PNIPAM hydrogels by controlling the adsorption of magnetite nanoparticles, Applied Physics A, DOI: 10.1007/s00339-013-7620-8, published 2014

C.Dionigi, L.Lungaro, V.Goranov, **A.Riminucci**, Y.Pineiro-Redondo, M.Banobre-Lopez, J.Rivas, V.A.Dediu, Smart magnetic poly(N-isopropylacrylamide) to control the release of bio-active molecules, Journal of Materials Science: Materials in Medicine, doi: 10.1007/s10856-014-5159-7, published 2014

V.A.Dediu, **A.Riminucci**, More than spectroscopy, Nature Nanotechnology, 2013, doi: 10.1038/nnano.2013.263

P.Graziosi, A.Gambardella, M.Prezioso, **Alberto Riminucci**, I.Bergenti, D.Pullini, D.Busquets-Mataix, V.A.Dediu, A novel picture for charge transport interpretation in epitaxial manganite thin films, arXiv preprint arXiv:1308.1329, Published 2013

A.Riminucci, M.Prezioso, C.Pernechele, P.Graziosi, I.Bergenti, R.Cecchini, M.Calbucci, M.Solzi, V.A. Dediu, Hanle effect missing in a prototypical organic spintronic device, Applied Physics Letters, doi: 10.1063/1.4794408, Published 2013

P.Graziosi, M.Prezioso, A.Gambardella, C.Kitts, R.K.Rakshit, I.Bergenti, **A.Riminucci**, F.Borgatti, C.Pernechele, M.Solzi, D.Pullini, D.Busquets-Mataix, V.A.Dediu, Conditions for the growth of smooth $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films by pulsed electron ablation, Thin Solid Films, DOI: 10.1016/j.tsf.2013.02.008, Published 2013

M.Prezioso, **A.Riminucci**, P.Graziosi, I.Bergenti, R.Rakshit, R.Cecchini, A.Vianelli, F.Borgatti, N.Haag, M.Willis, A.J.Drew, W.Gillin, V.A.Dediu, A single-device universal logic gate based on a magnetically enhanced memristor, Advanced Materials, Volume 25, Pages: 534-8, DOI: 10.1002/adma.201202031, Published 2013

M.Cavallini, Z.Hemmatian, **A.Riminucci**, M.Prezioso, V.Morandi, M.Murgia, Regenerable Resistive Switching in Silicon Oxide Based Nanojunctions, ADVANCED MATERIALS, Volume 24, Issue 9, Pages 1197-1201, DOI: 10.1002/adma.201104301, Published 2012

I.Bergenti, V.Dediu, M.Prezioso, **A.Riminucci**, Organic spintronics, PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, Volume 369, Issue 1948, Pages 3054-3068, DOI: 10.1098/rsta.2011.0155, Published 2011

M.Prezioso, **A.Riminucci**, I.Bergenti, P.Graziosi, D.Brunel, V.A.Dediu, Electrically Programmable Magnetoresistance in Multifunctional Organic-Based Spin Valve Devices, ADVANCED MATERIALS, Volume 23, Issue 11, Pages 1371-1375, DOI: 10.1002/adma.201003974, Published 2011

M.Prezioso, **A.Riminucci**, I.Bergenti, P.Graziosi, D.Brunel, V.A.Dediu, Electrically controllable magnetoresistance switching in multifunctional organic based spin-valve devices, PROCEEDINGS OF THE 2ND

EUROPEAN FUTURE TECHNOLOGIES CONFERENCE AND EXHIBITION 2011 (FET 11), Book Series: Procedia Computer Science, Volume 7, Pages 283-285, DOI: 10.1016/j.procs.2011.09.019, Published 2011

A.Riminucci, M.Prezioso, P.Graziosi, C.Newby, Electrodes artifacts in low resistance organic spin valves, Applied Physics Letters Volume 96, page 112505, DOI: 10.1063/1.3309599, Published 2010

N. Bock, **A. Riminucci**, C. Dionigi, A. Russo, A. Tampieri, E. Landi, V.A. Goranov, M. Marcacci, V. Dediu, A novel route in bone tissue engineering: Magnetic biomimetic scaffolds, Acta Biomaterialia, Volume 6, pages 786–796, DOI: 10.1016/j.actbio.2009.09.017, Published 2010

E. Arisi, I. Bergenti, M. Cavallini, **A. Riminucci**, G. Ruani, V. Dediu, M.Ghidini, C.Pernechele, M.Solzi, Direct deposition of magnetite thin films on organic semiconductors, Applied Physics Letters, Volume 93, Issue 11, DOI: 10.1063/1.2936290, Published 2008

V.Dediu, L.E.Hueso, I.Bergenti, **A.Riminucci**, F.Borgatti, P.Graziosi, C.Newby, F.Casoli, M.P.De Jong, C.Taliani, Y.Zhan, Room-temperature spintronic effects in Alq₃-based hybrid devices, Physical Review B, Volume 78, Issue 11, DOI: 10.1103/PhysRevB.78.115203, Published 2008

L. E. Hueso, I. Bergenti, **A. Riminucci**, Y. Q. Zhan, V. Dediu, Multipurpose Magnetic Organic Hybrid Devices, Advanced Materials, Volume 19, Issue 18, September, 2007, Pages 2639-2642, DOI: 10.1002/adma.200602748, Published 2007

E. Arisi, I. Bergenti, M. Cavallini, M. Murgia, **A. Riminucci**, G. Ruani and V. Dediu, Room temperature deposition of magnetite thin films on organic substrate, Journal of Magnetism and Magnetic Materials, Volume 316, Issue 2, Pages 410-412, DOI: 10.1016/j.jmmm.2007.03.056, Published 2007

V. Dediu, E. Arisi, I. Bergenti, **A.Riminucci**, M. Solzi, C. Pernechele and M. Natali, Squid measurement of the Verwey transition on epitaxial (1 0 0) magnetite thin films, Journal of Magnetism and Magnetic Materials, Volume 316, Issue 2, pages e721-e723, DOI: 10.1016/j.jmmm.2007.03.071, Published 2007

I. Bergenti, **A.Riminucci**, E. Arisi, M. Murgia, M. Cavallini, M. Solzi, F. Casoli and V. Dediu, Magnetic properties of Cobalt thin films deposited on soft organic layers, Journal of Magnetism and Magnetic Materials, Volume 316, Issue 2, DOI: 10.1016/j.jmmm.2007.03.165, Pages e987-e989, Published 2007

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Bologna, 31 March 2023

Signature

A handwritten signature in black ink, appearing to read 'Alberto Riminucci', written in a cursive style.