



DEPARTMENT OF
MATERIALS SCIENCE

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Dr. Roberto Nisticò, PhD
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Date and Place of Birth 04/04/1987, Torino (TO)
Nationality Italian citizenship
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RESEARCH ACTIVITY

Roberto Nisticò (RN) is Fixed-Time Assistant Professor (RTD-b), i.e. tenure track Associate Professor, in General and Inorganic Chemistry at the University of Milano-Bicocca (UNIMIB, Department of Materials Science). Up today, RN published more than 70 papers on renowned international journals (mostly as first and/or corresponding author) and one book chapter. The research activity of RN mainly focuses on several aspects at the interface between nanotechnology and materials science, always looking for novel and appealing solutions for a sustainable future. The principal field of interest is the development of magnet-responsive nanomaterials (i.e., iron oxides, ferrites) and other inorganic systems for environmental remediation of contaminated wastewater, (photo)catalysis, and for energetic applications.

BIBLIOMETRIC INDICATORS (Scopus Database)

Number of Publications: **69**; Citations: **1272**; H-index: **21**.

BIBLIOMETRIC INDICATORS (WOS Database)

Number of Publications: **71**; Citations: **1175**; H-index: **20**.

CAREER

Feb 2022 – today Fixed-Time **Assistant Professor** (RTD-b), University of Milano-Bicocca
General and Inorganic chemistry, CHIM/03 – 03/B1

Oct 2021 – Dec 2021 Permanent **GMP QC Analyst**, PolyCrystalLine SpA, QC-Unit, Medicina (BO), Italy

Oct 2020 – Oct 2021 Fixed-Time **GMP QC Analyst**, PolyCrystalLine SpA, QC-Unit, Medicina (BO), Italy

Feb 2019 – Oct 2020 Permanent **Researcher**, Bio-ON SpA, CNS-Unit, Castel S. Pietro Terme (BO), Italy

Jan 2017 – Feb 2019 Fixed-Time **Researcher** (RTD-a), Polytechnic of Torino
Materials Science and Engineering, ING-IND/22 – 09/D1

Jul 2016 – Jan 2017 **Post-Doc**, University of Torino
An integrated approach for the treatment of micropollutants: oxidation, membrane technologies and new adsorbing materials

Mar 2016 – Jun 2016 **Post-Doc**, University of Torino
An integrated approach for the treatment of micropollutants: oxidation, membrane technologies and new adsorbing materials

Mar 2015 – Feb 2016 **Post-Doc**, University of Torino
Use of natural substances for obtaining useful materials for environmental applications

EDUCATION AND TRAINING

Jan 2015 **PhD Chemical and Materials Sciences**, University of Torino, Supervisor: Dr. G. Magnacca
Development of oxidic and polymeric materials for controlled transport and/or release. Rank: Excellent

Dec 2011 **Professional Certification**, Chemist sect. A, Order of Chemists of Piemonte and Valle d'Aosta

Oct 2011 **MSc Industrial Chemistry**, University of Torino, Tutors: Dr. G. Magnacca, Dr. M.G. Faga (CNR)
Physico-chemical characterization of hernioplasty polypropylenic meshes functionalized with antibiotic agent. Marks: 110/110 cum laude

Oct 2009 **BSc Industrial Chemistry**, University of Torino, Tutor: Prof. L. Costa
Oxidation mechanism after e-beam irradiation of polypropylene films. Marks: 104/110

EDITORIAL ACTIVITY

- **Inorganics** (ISSN 2304-6740, MDPI)
 - Member of the **Topical Advisory Board** (since 2021)
 - Member of the **Reviewer Board** (since 2021)
 - Guest Editor SI** *New Advances into Nanostructured Oxides*. Still open to submission (2022)
 - Guest Editor SI** *Smart Tools for Smart Applications: New Insights into Inorganic Magnetic Systems and Materials*. Published online and printed as a book (2020)
- **Polymers** (ISSN 2073-4360, MDPI)
 - Member of the **Reviewer Board** (since 2020)
- **Frontiers in Materials - Carbon-Based Materials** (ISSN 2296-8016, Frontiers)
 - Member of the **Reviewer Board** (since 2018)
- **Frontiers in Chemistry – Inorganic Chemistry** (ISSN 2296-2646, Frontiers)
 - Member of the **Reviewer Board** (since 2018)
- **Journal of Nanomaterials** (ISSN 1687-4110, Hindawi)
 - Guest Editor SI** *Environmental Sustainability in the Synthesis and Characterization of Hybrid/Composite Nanomaterials*. Published online (2018)

Reviewer

Applied Physics Letters (AIP), Applied Surface Science (Elsevier), BMC Biotechnology (BMC - Springer Nature), Chemical Physics Letters (Elsevier), ChemistrySelect (Wiley), Cellulose (Springer), Clean technologies (MDPI), Coatings (MDPI), Energies (MDPI), eXPRESS Polymer Letters (BME-PT and GTE), Frontiers in Chemistry (Frontiers), International Journal of Biological Macromolecules (Elsevier), International Journal of Molecular Science (MDPI), International Journal of Smart and Nano Materials (Taylor and Francis), Journal of Analytical and Applied Pyrolysis (Elsevier), Journal of Hazardous Materials (Elsevier), Journal of Materials Chemistry B (RSC), Journal of Materials Science (Springer), Journal of Photochemistry and Photobiology A: Chemistry (Elsevier), Journal of Polymers and the Environment (Springer), Journal of the European Ceramic Society (Elsevier), Korean Journal of Chemical Engineering (Springer), Magnetochemistry (MDPI), Marine Drugs (MDPI), Materials (MDPI), Materials Research Express (IOP), Materials Science and Engineering C (Elsevier), Metals (MDPI), Molecules (MDPI), Nanomaterials (MDPI), New Journal of Chemistry (RSC), Polymer Degradation and Stability (Elsevier), Polymers (MDPI), RSC Advances (RSC), Science of the Total Environment (Elsevier), Scientific Reports (Nature Publishing Group), Water Air and Soil Pollution (Springer).

AWARDS

2018

“Alfredo Di Braccio” Award, provided by the Accademia Nazionale dei Lincei (Italy).
For a scholar in Chemistry. **Finalist** with mention of merit by the examining Committee.

2017

N° 3 “Publons Peer Review Awards” (n°3), provided by Publons, and Web of Science (WOS).
For being among the “Top Reviewers for the Polytechnic Institute of Turin” in 3 categories:
i) Materials Science, ii) Engineering, iii) Physics & Astronomy. **Winner**.

2014

“Macrogirovani 2014”, provided by dell’Associazione Italiana di Scienze e Tecnologie delle Macromolecole (AIM). For the best oral presentation during the XXI Convegno Nazionale dell’AIM of Torino (Italy). **Winner**.

NATIONAL QUALIFICATIONS

- **General and Inorganic Chemistry [S.C. 03/B1]**
as Associate Professor. Validity from 01/02/2022 to 01/02/2031
- **Materials Science and Engineering [S.C. 09/D1]**
as Associate Professor. Validity from 31/05/2021 to 31/05/2030
- **Environmental & Cultural Heritage Chemistry [CHIM/12; S.C. 03/A1]**
as Associate Professor. Validity from 12/11/2020 to 12/11/2029
- **Industrial Chemistry [S.C. 03/C2]**
as Associate Professor. Validity from 13/05/2019 to 13/05/2028
- **Experimental Physics of Condensed Matter [S.C. 02/B1]**
as Associate Professor. Validity from 26/07/2018 to 26/07/2027
- **Applied Physics [FIS/07; S.C. 02/D1]**
as Associate Professor. Validity from 12/09/2018 to 12/09/2027

MEMBERSHIP

- **Italian Chemical Society (SCI)**
as Member of the Physical Chemistry Division. From 2012 to 2020
as Member of the Inorganic Chemistry Division. Since 2022
- **Associazione Italiana di Scienze e Tecnologie delle Macromolecole (AIM)**
as Member of the Scientific Committee. From 2013 to 2015
as Member. From 2012 to 2020
- **Order of Chemists of Piemonte and Valle d'Aosta**
as Member. From 2012 to 2016

VISITING PERIODS

Oct 2015 – Nov 2015

National University of Comahue, PROBIEN, Neuquen, Argentina
Project: Magnetic materials from natural sources for wastewater treatments
Supervisors: Prof. M.E. Parolo, Dr. L. Carlos

Sep 2015 – Oct 2015

National University of La Plata, INIFTA, La Plata, Argentina
Project: Magnetic materials from natural sources for environmental applications
Supervisor: Prof. D.O. Martire

Apr 2015 – May 2015

National Polytechnic Institute of Toulouse, AGROMAT, Tarbes, France
Project: Extruded biobased composite films from urban biowaste as added value products
Supervisors: Prof. C. Vaca-Garcia, Dr. P. Evon

Jun 2014 – Aug 2014

Max-Planck Institute of Colloids and Interfaces, Potsdam-Golm, Germany
Project: Synthesis of functional nanoporous oxides and their hybrids under hypersaline conditions
Supervisors: Prof. M. Antonietti, Dr. N. Fechner

Jun 2013 – Aug 2013

Max-Planck Institute of Colloids and Interfaces, Potsdam-Golm, Germany
Project: Sol-gel chemistry of silica under hypersaline conditions
Supervisors: Prof. M. Antonietti, Dr. N. Fechner

DIDACTIC/TEACHING ACTIVITY

University of Milano-Bicocca

Reference Teacher for the course MSc Chemical Science and Technologies (IT)
Academic Years: 2021/2022

University of Milano-Bicocca

Inorganic Chemistry I and Laboratory
as Titular Teacher (Laboratory). BSc Chemical Sciences and Technologies (IT)
as Member of the Evaluation Committee of the course
Academic Years: 2021/2022

Polytechnic of Torino

Science and Technology of Materials and Metallurgy
as Assistant Teacher. BSc Aerospace Engineering (IT)
Academic Years: 2017/2018



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Polytechnic of Torino

Concept Design – Materials and Technology for the Design

as Assistant Teacher. BSc Design and Visual Communication (IT)

Academic Years: 2016/2017

University of Torino

Chemistry of Polymeric Materials

Laboratory Assistant. MSc Industrial Chemistry (IT)

Academic Years: 2016/2017

University of Torino

Inorganic Industrial Chemistry with Laboratory

Laboratory Assistant. BSc Industrial Chemistry (IT)

Academic Years: 2012/2013

PROJECTS

PRINCIPAL INVESTIGATOR (PI)

n/a

UNIT PI

n/a

PARTECIPANT

2018-2019

DEFLeCT - Digital tEchnology For Lung Cancer Treatment

as Fixed-Time Researcher (RTD-a) at Polytechnic of Torino

Piemonte Regional project 2018-2021 (Call Piattaforma Tecnologica "Salute e Benessere").

2017-2018

Composite materials for flexible production riser construction

as Fixed-Time Researcher (RTD-a) at Polytechnic of Torino

Research contract with ENI SpA, Unit GEBR - Breakthrough initiative management.

2016

SFERA - Solar Facilities for the European Research Area

as Post-Doc at University of Torino

SFERA program (EC-CIEMAT-PSA; contract n°312643).

2015-2017

MicroBusters - An integrated approach for the treatment of micropollutants: oxidation, membrane technologies and new adsorbing materials

as Post-Doc at University of Torino

Research financial support 2014 (Torino call2014 L2 126). Funded by Compagnia di San Paolo and University of Torino.

2015-2018

Mat4treaT - Enhancing water quality by developing novel materials for organic pollutant removal in tertiary water treatments

as Post-Doc at University of Torino

Marie Skłodowska-Curie Research and Innovation Staff Exchange (EU H2020-MSCA-RISE-2014).

Project Code: 645551

2015

Extruded biobased composite films from urban biowaste added value products

as Post-Doc at University of Torino

COST-European Cooperation in Science and Technology EUBis Action TD1203.

Project Code: COST-STSM-TD1203-26977).

2012-2014

OXYPOLISTI - Development of oxidic and polymeric materials for stimuli responsive applications

as PhD student at University of Torino

Research financial support 2011. Funded by University of Torino.

Project Code: ORTO114XNH.

2011-2013

PREVI - Prevenzione e cura dell'infezione in ernioplastica, in chirurgia urologica/ uroginecologica e wound care

as MSc and PhD student at University of Torino

European Project POR-FESR ASSE I (I.1.3 Innovation and SME; Regione Piemonte; 2010-2013).

PUBLICATIONS LIST

- 1) F. Caldera, **R. Nisticò**, G. Magnacca, A. Matencio, Y.K. Monfared, **F. Trotta**, Magnetic composites of dextrin-based carbonate nanosponges and iron oxide nanoparticles with potential application in targeted drug delivery. **Nanomaterials** 12 (2022) 754, pp. 1-14. DOI: 10.3390/nano12050754.
- 2) **R. Nisticò**, **L. Lavagna**, E. Aimo Boot, P. Ivanchenko, M. Lorusso, F. Bosia, N.M. Pugno, D. D'Angelo, M. Pavese, Improving rubber concrete strength and toughness by plasma-induced end-of-life tire rubber surface modification. **Plasma Processes and Polymers** 18 (2021) 2100081. DOI: 10.1002/ppap.202100081.
- 3) M.L. Tummino, **R. Nisticò**, F. Franzoso, A. Bianco Prevot, P. Calza, E. Laurenti, M.C. Paganini, D. Scalarone, **G. Magnacca**, The "Lab4treat" outreach experience: Preparation of sustainable magnetic nanomaterials for remediation of model wastewater. **Molecules** 26 (2021) 3361, pp. 1-17. DOI: 10.3390/molecules26113361.
- 4) **L. Lavagna**, **R. Nisticò**, S. Musso, M. Pavese, Functionalization as a way to enhance dispersion of carbon nanotubes in matrices: a review. **Materials Today Chemistry** 20 (2021) 100477, pp. 1-17. DOI: 10.1016/j.mtchem.2021.100477.
- 5) **M.L. Tummino**, **R. Nisticò**, C. Riedo, D. Fabbri, M. Cerruti, **G. Magnacca**, Waste cleaning waste: Combining alginate with biowaste-derived substances in hydrogels and films for water cleanup. **Chemistry – A European Journal** 27 (2021) 660-668. DOI: 10.1002/chem.202003250.
- 6) I. Corazzari, F. Turci, **R. Nisticò**, TGA coupled with FTIR gas analysis to quantify the vinyl alcohol unit content in ethylene-vinyl alcohol copolymer. **Materials Letters** 284 (2021) 129030. DOI: 10.1016/j.matlet.2020.129030.
- 7) **R. Nisticò**, Zirconium oxide and the crystallinity hallows. **Journal of the Australian Ceramic Society** 57 (2021) 225-236. DOI: 10.1007/s41779-020-00529-2.
- 8) **R. Nisticò**, A synthetic guide toward the tailored production of magnetic iron oxide nanoparticles. **Boletín de la Sociedad Española de Cerámica y Vidrio** 60 (2021) 29-40. DOI: 10.1016/j.bsecv.2020.01.011.
- 9) D. Suarez-Riera, A. Merlo, **L. Lavagna**, **R. Nisticò**, M. Pavese, Mechanical properties of mortar containing recycled Acanthocardia tuberculata seashells as aggregate partial replacement. **Boletín de la Sociedad Española de Cerámica y Vidrio** 60 (2021) 206-210. DOI: 10.1016/j.bsecv.2020.03.011.
- 10) **R. Nisticò**, Polyethylene terephthalate (PET) in the packaging industry. **Polymer Testing** 90 (2020) 106707. DOI: 10.1016/j.polymertesting.2020.106707.
- 11) **R. Nisticò**, F. Guerretta, P. Benzi, G. Magnacca, Chitosan-derived biochars obtained at low pyrolysis temperatures for potential application in electrochemical energy storage devices. **International Journal of Biological Macromolecules** 164 (2020) 1825-1831. DOI: 10.1016/j.ijbiomac.2020.08.017.
- 12) **L. Lavagna**, D. Burlon, **R. Nisticò**, V. Brancato, A. Frazzica, M. Pavese, **E. Chiavazzo**, Cementitious composite materials for thermal energy storage applications: a preliminary characterization and theoretical analysis. **Scientific Reports** 10 (2020) 12833. DOI: 10.1038/s41598-020-69502-0.
- 13) **L. Lavagna**, S. Marchisio, A. Merlo, **R. Nisticò**, M. Pavese, Polyvinyl butyral-based composites with carbon nanotubes: Efficient dispersion as a key to high mechanical properties. **Polymer Composites** 41 (2020) 3627-3637. DOI: 10.1002/pc.25661.
- 14) **R. Nisticò**, **L. Lavagna**, D. Versaci, P. Ivanchenko, P. Benzi, Chitosan and its char as fillers in cement-base composites: A case study. **Boletín de la Sociedad Española de Cerámica y Vidrio** 59 (2020) 186-192. DOI: 10.1016/j.bsecv.2019.10.002.
- 15) **L. Lavagna**, **R. Nisticò**, M. Sarasso, M. Pavese, An analytical mini-review on the compression strength of rubberized concrete as a function of the amount of recycled tires crumb rubber. **Materials** 13 (2020) 1234, pp. 1-16. DOI: 10.3390/ma13051234.
- 16) M.L. Tummino, G. Magnacca, D. Cimino, E. Laurenti, **R. Nisticò**, The innovation comes from the sea: Chitosan and alginate hybrid gels and films as sustainable materials for wastewater remediation. **International Journal of Molecular Sciences** 21 (2020) 550, pp. 1-16. DOI: 10.3390/ijms21020550.

- 17) **R. Nisticò**, F. Cesano, F. Garello, Magnetic materials and systems: Domain structure visualization and other characterization techniques for the application in the materials science and biomedicine. **Inorganics** 8 (2020) 6, pp.1-59. DOI: 10.3390/inorganics8010006.
- 18) S. Tabasso, M. Ginepro, L. Tomasso, E. Montoneri, **R. Nisticò**, M. Francavilla, Integrated biochemical and chemical processing of municipal bio-based waste to obtain bio based products for multiple uses. The case of soil remediation. **Journal of Cleaner Production** 245 (2020) 119191, pp.1-13. DOI: 10.1016/j.jclepro.2019.119191.
- 19) M.E. Peralta, **R. Nisticò**, F. Franzoso, G. Magnacca, L. Fernandez, M.E. Parolo, E. Garcia Leon, L. Carlos, Highly efficient removal of heavy metals from waters by magnetic chitosan-based composite. **Adsorption** 25 (2019) 1337-1347. DOI: 10.1007/s10450-019-00096-4.
- 20) **R. Nisticò**, A. Bianco Prevot, G. Magnacca, L. Canone, S. Garcia-Ballesteros, A. Arques, Sustainable magnetic materials (from chitosan and municipal biowaste) for the removal of Diclofenac from water. **Nanomaterials** 9 (2019) 1091, pp. 1-14. DOI: 10.3390/nano9081091.
- 21) **R. Nisticò**, P. Rivolo, C. Novara, F. Giorgis, New branched flower-like Ag nanostructures for SERS analysis, **Colloids and Surfaces A: Physicochemical and Engineering Aspects** 578 (2019) 123600. pp.1-8. DOI: 10.1016/j.colsurfa.2019.123600.
- 22) E. Montoneri, **R. Nisticò**, M. Francavilla, Demineralisation of municipal biowaste hydrolysates. **ChemistrySelect** 4 (2019) 7551-7554. DOI: 10.1002/slct.201900369.
- 23) **R. Nisticò**, L. Carlos, High yield of nano zero-valent iron (nZVI) from carbothermal synthesis using lignin-derived substances from municipal biowaste. **Journal of Analytical and Applied Pyrolysis** 140 (2019) 239-244. DOI: 10.1016/j.jaap.2019.03.022.
- 24) **R. Nisticò**, P. Rivolo, F. Giorgis, Tips and tricks for the surface engineering of well-ordered morphologically driven silver-based nanomaterials. **ChemistryOpen** 8 (2019) 508-519. DOI: 10.1002/open.201900007.
- 25) **R. Nisticò**, C. Novara, A. Chiadò, P. Rivolo, F. Giorgis, Cysteine-mediated synthesis of silver nanonets and their use for Surface Enhanced Raman Scattering (SERS). **Materials Letters** 247 (2019) 208-210. DOI: 10.1016/j.matlet.2019.03.121.
- 26) V. Polliotto, F.R. Pomilla, V. Maurino, G. Marci, A. Bianco Prevot, **R. Nisticò**, G. Magnacca, M.C. Paganini, L. Ponce Robles, L. Perez, S. Malato, Different approaches for the solar photocatalytic removal of micro-contaminants from aqueous environment: Titania vs. hybrid magnetic iron oxides. **Catalysis Today** 328 (2019) 164-171. DOI: 10.1016/j.cattod.2019.01.044.
- 27) **R. Nisticò**, F. Guerretta, P. Benzi, G. Magnacca, D. Mainero, E. Montoneri, Thermal conversion of municipal biowaste anaerobic digestate to valuable char. **Resources** 8 (2019) 24, pp. 1-7. DOI:10.3390/resources8010024.
- 28) F. Guerretta, G. Magnacca, F. Franzoso, P. Ivanchenko, **R. Nisticò**, Sodium alginate conversion into char via pyrolysis at the onset temperature. **Materials Letters** 234 (2019) 339-342. DOI: 10.1016/j.matlet.2018.09.127.
- 29) L. Lavagna, **R. Nisticò**, S. Musso, M. Pavese, Hydrophobic cellulose ester as a sustainable material for simple and efficient water purification processes from fatty oils contamination. **Wood Science and Technology** 53 (2019) 249–261. DOI: 10.1007/s00226-018-1060-8.
- 30) **R. Nisticò**, The importance of surfaces and interfaces in clays for water remediation processes. **Surface Topography: Metrology and Properties** 6 (2018) 043001. DOI: 10.1088/2051-672X/aaed09.
- 31) A. Anceschi, F. Guerretta, G. Magnacca, M. Zanetti, P. Benzi, F. Trotta, F. Caldera, **R. Nisticò**, Sustainable N-containing biochars obtained at low temperatures as sorbing materials for environmental application: Municipal biowaste-derived substances and nanosponges case studies. **Journal of Analytical and Applied Pyrolysis** 134 (2018) 606-613. DOI: 10.1016/j.jaap.2018.08.010.
- 32) **R. Nisticò**, Block copolymers for designing nanostructured porous coatings. **Beilstein Journal of Nanotechnology** 9 (2018) 2332-2344. DOI:10.3762/bjnano.9.218.

- 33) D. Palma, A. Bianco Prevot, M. Brigante, D. Fabbri, G. Magnacca, C. Richard, G. Mailhot, **R. Nisticò**, New insights on the photodegradation of caffeine in the presence of bio-based substances-magnetic iron oxide hybrid nanomaterials. **Materials** 11 (2018) 1084, pp. 1-17. DOI: 10.3390/ma11071084.
- 34) L. Lavagna, **R. Nisticò**, A. Chiappone, M. Pavese, Facile photo-induced growth of polymeric nanostructures onto cellulose: The poly(ethylene glycol) methacrylate (PEGMA)@cellulose case study. **Materials Letters** 227 (2018) 202-204. DOI: 10.1016/j.matlet.2018.05.074.
- 35) D. Palma, A. Bianco Prevot, L. Celi, M. Martin, D. Fabbri, G. Magnacca, M.R. Chierotti, **R. Nisticò**, Isolation, characterization, and environmental application of bio-based materials as auxiliaries in photocatalytic processes. **Catalysts** 8 (2018) 197, pp. 1-12. DOI: 10.3390/catal8050197.
- 36) **R. Nisticò**, F. Cesano, F. Franzoso, G. Magnacca, D. Scarano, I.G. Funes, L. Carlos, M.E. Parolo, From biowaste to magnet-responsive materials for water remediation from polycyclic aromatic hydrocarbons. **Chemosphere** 202 (2018) 686-693. DOI: 10.1016/j.chemosphere.2018.03.153.
- 37) S.A. Jadhav, **R. Nisticò**, G. Magnacca, D. Scalarone, Packed hybrid silica nanoparticles as sorbents with thermo-switchable surface chemistry and pore size for fast extraction of environmental pollutants. **RSC Advances** 8 (2018) 1246-1254. DOI: 10.1039/c7ra11869d.
- 38) **R. Nisticò**, L.R. Celi, A. Bianco Prevot, L. Carlos, G. Magnacca, E. Zanzo, M. Martin, Sustainable magnet-responsive nanomaterials for the removal of arsenic from contaminated water. **Journal of Hazardous Materials** 342 (2018) 260-269. DOI: 10.1016/j.jhazmat.2017.08.034.
- 39) G. Magnacca, F. Guerretta, A. Vizintin, P. Benzi, M.C. Valsania, **R. Nisticò**, Preparation, characterization and environmental/electrochemical energy storage testing of low-cost biochar from natural chitin obtained via pyrolysis at mild conditions. **Applied Surface Science** 427 (2018) 883-893. DOI: 10.1016/j.apsusc.2017.07.277.
- 40) **R. Nisticò**, Aquatic-derived biomaterials for a sustainable future: A European opportunity. **Resources** 6 (2017) 65, pp. 1-15. DOI: 10.3390/resources6040065.
- 41) **R. Nisticò**, Magnetic materials and water treatments for a sustainable future. **Research on Chemical Intermediates** 43 (2017) 6911-6949. DOI: 10.1007/s11164-017-3029-x.
- 42) **R. Nisticò**, P. Evon, L. Labonne, G. Vaca-Medina, E. Montoneri, C. Vaca-Garcia, M. Negre, Post-harvest tomato plants and urban food wastes for manufacturing plastic films. **Journal of Cleaner Production** 167 (2017) 68-74. DOI: 10.1016/j.jclepro.2017.08.160.
- 43) M. Sodano, C. Lerda, **R. Nisticò**, M. Martin, G. Magnacca, L. Celi, D. Said-Pullicino, Dissolved organic carbon retention by coprecipitation during the oxidation of ferrous iron. **Geoderma** 307 (2017) 19-29. DOI: 10.1016/j.geoderma.2017.07.022.
- 44) **R. Nisticò**, S. Tabasso, G. Magnacca, T. Jordan, M. Shalom, N. Fechner, Reactive hypersaline route: One-pot synthesis of porous photoreactive nanocomposites. **Langmuir** 33 (2017) 5213-5222. DOI: 10.1021/acs.langmuir.7b00142.
- 45) **R. Nisticò**, G. Magnacca, S. Martorana, Surface science in hernioplasty: The role of plasma treatments. **Applied Surface Science** 419 (2017) 860-868. DOI: 10.1016/j.apsusc.2017.05.121.
- 46) **R. Nisticò**, D. Scalarone, G. Magnacca, Sol-gel chemistry, templating and spin-coating deposition: a combined approach to control in a simple way the porosity of inorganic thin films/coatings. **Microporous and Mesoporous Materials** 248 (2017) 18-29. DOI: 10.1016/j.micromeso.2017.04.017.
- 47) P. Evon, L. Labonne, **R. Nisticò**, E. Montoneri, C. Vaca-Garcia, M. Nègre, Thermopressed binderless fiberboards from post-harvest tomato and maize plants. **Trends in Green Chemistry** 3 (2017) 1-7. DOI: 10.21767/2471-9889.100014.
- 48) M. Morlacchini, G. Fusconi, C. Montoneri, **R. Nisticò**, E. Montoneri, Pigs' husbandry as case study to test effects of vegetable residues' hydrolysates on animals. **ARC Journal of Animal and Veterinary Sciences** 3 (2017) 11-23. DOI: 10.20431/2455-2518.0303003.
- 49) A. Bianco Prevot, F. Bairo, D. Fabbri, F. Franzoso, G. Magnacca, **R. Nisticò**, A. Arques, Urban biowaste-derived sensitizing materials or caffeine photodegradation. **Environmental Science and Pollution Research** 24 (2017) 12599-12607. DOI: 10.1007/s11356-016-7763-1.

- 50) **R. Nisticò**, F. Franzoso, F. Cesano, D. Scarano, G. Magnacca, M.E. Parolo, L. Carlos, Chitosan-derived iron oxide systems for magnetically guided and efficient water purification processes from polycyclic aromatic hydrocarbons. **ACS Sustainable Chemistry and Engineering** 5 (2017) 793–801. DOI: 10.1021/acssuschemeng.6b02126.
- 51) F. Franzoso, R. Nisticò, F. Cesano, I. Corazzari, F. Turci, D. Scarano, A. Bianco Prevot, G. Magnacca, L. Carlos, D.O. Martire, Biowaste-derived substances as a tool for obtaining magnet-sensitive materials for environmental applications in wastewater treatments. **Chemical Engineering Journal** 310 (2017) 307–316. DOI: 10.1016/j.cej.2016.10.120.
- 52) R. Nisticò, G. Magnacca, S.A. Jadhav, D. Scalarone, Polystyrene-*block*-poly(ethylene oxide) copolymers as templates for stacked, spherical large-mesopore silica coatings: dependence of silica pore size on the PS/PEO ratio. **Beilstein Journal of Nanotechnology** 7 (2016) 1454–1460. DOI: 10.3762/bjnano.7.137.
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Title: *Cement-based composite materials for thermochemical heat storage* (2018, ENG).
- 2) Davide Palma (University of Torino). MSc Environmental Chemistry (IT).
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- 3) Federico Guerretta (University of Torino). MSc Clinical, Forensic Chemistry and Doping Control (IT)
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Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196. Dichiaro che quanto riportato nel presente Curriculum Vitae corrisponde a verità ai sensi del D.P.R. 445/2000.

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