

CURRICULUM VITAE

EUROPEAN FORMAT



PERSONAL INFORMATION

Name, Surname	Giuseppe Mascolo
Address	Via Meucci 16, 76121 Barletta (BT), Italy
House number, street name, postcode, city, country	
Telephone	+39 080 5820519
E-mail	giuseppe.mascolo@ba.irsa.cnr.it
Nationality	Italian
Place and Date of birth	Barletta, 7/05/1963

WORK EXPERIENCE

CNR Employee	Serial number 39274 Senior Research Scientist (Level II, Primo Ricercatore)
From 2001 – On going	Senior Research Scientist
Name and address of employer	Water Research Institute – IRSA, Via De Blasio n. 5, 70132 Bari, Italy
Main activities and responsibilities	<ul style="list-style-type: none">✓ Scientific responsible of research contracts between CNR-IRSA and private companies, research project funded by CNR and Puglia Region, activities and work packages in research projects funded by European Community✓ Referee of international journals such as: Industrial and Engineering Chemistry Research, Journal of the Air & Waste Management Association, and Combustion Flame, Chemosphere, Water Research, Environmental Science & Technology, J. Hazardous Materials, Journal of Advanced Oxidation Technologies, Desalination, Catalysis Today, Journal of Environmental Management, International Journal of Environmental Analytical Chemistry, Royal Society of Chemistry, Applied Catalysis B: Environmental✓ Evaluator of research projects for the Fonds de la Recherche Scientifique – FNRS, Belgium, for the Ministry of Education and the Puglia Region✓ Supervisor of experimental thesis of specialist or master degree courses, doctorate and master✓ Tutor of scholarships and research grants✓ Teacher in Higher Education courses, University and Master courses and specialization✓ Effective member and Chairman of Boards of research grants, contracts and CNR scholarships
1998	Visiting scientist
Name and address of employer	Institute of Environmental Technology - Department of Water Quality Control of Technical University of Berlin
Main activities and responsibilities	Working on the characterization of the toxic organic fraction of industrial wastewater
1993	Visiting scientist
Name and address of employer	Environmental Sciences and Engineering Laboratory of the University of Dayton
Main activities and responsibilities	Working on the formation and destruction kinetics of bromo- and chloro-dioxins during incineration of bromo and chloro-phenols

1992 Name and address of employer Main activities and responsibilities	Visiting scientist Water Research Centre (WRc) - Medmenham (UK) Working on organic pollutants degradation by advanced oxidation processes
1988 Name and address of employer Main activities and responsibilities	Visiting scientist Polymer Institute of Polytechnic of Zurich (E.T.H.) – Zurich, Switzerland Working in the field of the reverse micelles chemistry

EDUCATION AND TRAINING

1988 – 1984 Name and type of organisation providing education and training Principal subjects occupational skills covered Level in National classification	Master's Degree in "Chemistry" (110/110 and honors) University of Bari "ALDO MORO", Department of Chemistry, Via Orabona 4, 70126 Bari, Italy Thesis title: "Stereospecific synthesis of dienes and conjugated trienes through consecutive reactions of cross-coupling with organometallic compounds" 7
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RESEARCH ACTIVITIES

Research sectors	<ul style="list-style-type: none"> ✓ Degradation of organic pollutants by advanced oxidation processes ✓ Mechanisms of by-products formation during organic pollutants degradation ✓ Liquid chromatography-mass spectrometry (LC-MS) ✓ Determination of organic pollutants in wastewater, sludge and soils ✓ Thermal decomposition of hazardous materials for high temperature incineration ✓ Understanding formation of products of incomplete combustion (PICs) during incineration ✓ Process modifications for sewage sludge incineration to minimize PICs emission
Recent Scientific Activities	<p>Coordination of several National R&D Projects. Coordination of R&D sub-projects in several national and European projects. Coordination of scientific WPs in several EU projects:</p> <ul style="list-style-type: none"> ✓ LIMPID "Nanocomposite Materials for Photocatalytic Degradation of Pollutants" (2013-2015) Grant agreement n. 310177 ✓ FRAME "A novel Framework to Assess and Manage contaminants of emerging concern in indirect potable reuse", Water JPI - Water Challenges for a Changing World Joint Programming Initiative (2015-2017) ✓ ROUTES "Novel processing routes for effective sewage sludge management (2011-2014), Grant agreement" n. 265156 ✓ INNOWATECH "Innovative and integrated technologies for the treatment of industrial wastewater" (2006-2010), Contract n. 036882
Books and articles (Last 5 years)	<p>Co-author of more than 100 papers published in peer reviewed journals or presented to scientific conferences, book chapters and technical reports on different subjects within the environmental sciences and technologies.</p> <p>Hirsch Index (HI) of 26 (Scopus).</p> <ol style="list-style-type: none"> 1. C. M. Braguglia, G. Bagnuolo, A. Gianico, G. Mininni, C. Pastore, <u>G. Mascolo</u>, "Preliminary results of lab-scale investigations of products of incomplete combustion during incineration of primary an mixed digested sludge", <i>Environmental Science and Pollution Research</i>, 23, 4585-4593, 2016; 2. C. Pastore, L. di Bitonto, G. Mascolo, "Conversione della Frazione Organica dei Solidi Urbani (FORSU) in molecole di elevato valore: caratterizzazione ed ottimizzazione di processi termo-chimici sostenibili", in "La Ricerca Sulle Acque e Le Nuove Prospettive In Ambito Pubblico e Privato", a cura di E. Brugnoli V. F. Uricchio, Cacucci Editore, Bari, 2016, ISBN 978-88-6611-516-8; 3. C. Pastore, L. di Bitonto, G. Del Moro, E. Barca, M. Pagano, G. Mascolo, "Valorizzazione della componente lipidica dei fanghi di depurazione: caratterizzazione, separazione ed efficace conversione in biodiesel", in "La Ricerca Sulle Acque e Le Nuove Prospettive In Ambito Pubblico e Privato", a cura di E. Brugnoli V. F. Uricchio, Cacucci Editore, Bari, 2016, ISBN 978-88-6611-516-8;

4. C. M. Braguglia, A. Coors, A. Gallipoli, A. Gianico, E. Guillon, U. Kunkel, G. Mascolo, E. Richter, T. A. Teres M. C. Tomei, G. Mininni, "Quality assessment of digested sludges produced by advanced stabilization processes", *Environmental Science and Pollution Research*, 22, 7216-7235, 2015;
5. C. Pastore, M. Pagano, A. Lopez, G. Mininni, G. Mascolo, "Fat, oil and grease waste from municipal wastewater: characterization, activation and sustainable conversion into biofuel", *Water Science and Technologies*, 71, 1151-1157, 2015;
6. S. Murgolo, F. Petronella, R. Ciannarella, R. Comparelli, A. Agostiano, M. L. Curri, G. Mascolo, "UV and solar-based photocatalytic degradation of organic pollutants by nano-sized TiO₂ grown on carbon nanotubes. *Catalysis Today*, 2015, 240, 114-124;
7. G. Del Moro, C. Pastore, C. Di Iaconi and G. Mascolo. "Iodinated contrast media electro-degradation: process performance and degradation pathways", *Science of the Total Environment*, 2015, 506–507, 631–643;
8. G. Del Moro, A. Mancini, G. Mascolo, C. Di Iaconi, "Comparison of UV/H₂O₂ based AOP as an end treatment or integrated with biological degradation for treating landfill leachates", *Chemical Engineering Journal*, 2013, 218, 133-1374;
9. A. Gianico, C. M. Braguglia, G. Mascolo, G. Mininni, "Partitioning of nutrients and micropollutants along the sludge treatment line: a case study", *Environmental Science and Pollution Research*, 20, 6256-6265, 2013;
10. G. Mascolo, G. Bagnuolo, B. De Tommaso, V. Uricchio, "Direct analysis of polychlorinated biphenyls in heavily contaminated soils by thermal desorption/gas chromatography/mass spectrometry", *International Journal of Environmental Analytical Chemistry* 93, 1030-1043, 2013;
11. G. Laera, D. Cassano, A. Lopez, A. Pinto, A. Pollice, G. Ricco, G. Mascolo. Removal of Organics and Degradation Products from Industrial Wastewater by a Membrane Bioreactor Integrated with Ozone or UV/H₂O₂ Treatment. *Environmental Science and Technologies*, 46, 1010–1018, 2012;
12. D. Cassano, A. Zapata, G. Brunetti, G. Del Moro, C. Di Iaconi, I. Oller, S. Malato, G. Mascolo, "Comparison of several combined/integrated biological-AOPs setups for the treatment of municipal landfill leachate: minimization of operating costs and effluent toxicity", *Chemical Engineering Journal*, 172, 250-257, 2011 ;
13. G. Mascolo, G. Laera, A. Pollice, D. Cassano, C. Salerno, A. Lopez, "Effective organics degradation from pharmaceutical wastewater by an integrated process including membrane bioreactor and ozonation", *Chemosphere*, 78, 1100–1109, 2010;
14. G. Mascolo, L. Balest, D. Cassano, G. Laera, A. Lopez, A. Pollice, C. Salerno, "Biodegradability of pharmaceutical industrial wastewater and formation of recalcitrant organic compounds during aerobic biological treatment", *Bioresource Technology*, 101, 2585–2591, 2010.

ADDITIONAL INFORMATION

- ✓ Affiliations: International Ozone Association
- ✓ Driving license B

DECLARATION OF INFORMED CONSENT

The Undersigned hereby authorises the CNR to utilize and store the personal sensitive data contained in the attached Curriculum Vitae for the purposes of bilateral Joint research projects and within the framework of the Data protection Act No. 196, dates 30 June 2003 as promulgated by the Italian Government.

Yes, I agree

Bari, 27 09 2016

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Dr. Giuseppe Mascolo

Giuseppe Mascolo