

DR. GIUSEPPE MASCOLO – SHORT CV CON PUBBLICAZIONI

Titoli di studio e qualifiche

Laurea in Chimica conseguita nel 1988 presso l'Università degli Studi di Bari con la votazione di 110/110 e lode (tesi sperimentale dal titolo "Sintesi stereospecifica di dieni e tetraeni coniugati mediante reazioni consecutive di cross-coupling con composti organometallici). Il lavoro di tesi è stato premiato nell'ambito del concorso "Federchimica - per un futuro intelligente" indetto dalla Federchimica per l'anno 1989.

Dal 1988 è ricercatore presso l'Istituto di Ricerca Sulle Acque (IRSA) del Consiglio Nazionale delle Ricerche.

Dal 2001 è primo ricercatore presso l'Istituto di Ricerca Sulle Acque (IRSA) del Consiglio Nazionale delle Ricerche.

Competenze scientifiche

- Tecnologie avanzate di ossidazione (AOT) per la degradazione di inquinanti organici in matrici acquose.
- processi di trattamento dei fanghi per via termica ai fini del controllo del processo d'incenerimento.
- Tecniche cromatografiche in fase liquida ed in fase gassosa riguardo la determinazione di composti organici, ionici e non ionici, in matrici acquose e solide.
- Tecniche di spettrometria di massa, accoppiate a sistemi cromatografici in fase liquida ed in fase gassosa riguardo l'identificazione e la caratterizzazione di composti organici.

Attività scientifiche

- Responsabile scientifico di contratti di ricerca tra CNR-IRSA ed aziende private, di progetti di ricerca finanziati dal CNR e dalla Regione Puglia, di attività e work packages in progetti di ricerca finanziati dalla Comunità Europea.
- Visiting scientist all'ETH di Zurigo, al Water Research Centre di Medmenham (UK), all'Università Tecnica di Berlino.
- Referee di riviste internazionali quali Industrial and Engineering Chemistry Research, Journal of the Air & Waste Management Association, Combustion and 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.
- Vautatore di progetti di ricerca per il Fonds de la Recherche Scientifique – FNRS, Belgium, per il MIUR e per la Regione Puglia.
- Supervisore di tesi sperimentali di corsi di laurea specialistica o magistrale, di tesi di dottorato, di tesi di corsi di specializzazione, di tesi di Master.
- Tutor di titolari di borse di studio ed assegni di ricerca.
- Docente in corsi di Alta Formazione, corsi universitari, corsi di Master e di specializzazione.
- Componente effettivo o presidente di commissioni giudicatrici di assegni di ricerca, contratti d'opera e di borse di studio del CNR.

Publicazioni scientifiche

- 1 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, 2010, 78, 1100–1109.
- 2 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, 2010, 101, 2585–2591.
- 3 A. Pollice, G. Mascolo, G. Laera, D. Cassano, S. Diomedede, A. Pinto, C. Salerno, A. Lopez
Pharmaceutical wastewater treatment with integrated mbr-ozonation process.
Proceeding:: MDIW 2010 - 9th conference in the series Membranes in the Production of Drinking and Industrial Water, Trondheim, Norway, 27-30 June 2010.
- 4 D. Cassano, S. Diomedede, P. Ielpo, G. Laera, A. Lopez, G. Mascolo, N. Michel, I. Pariente, A. Pinto, A. Pollice
Integrated MBR-ozonation system for pharmaceutical wastewater treatment.
Proceeding: IWA World Water Congress, Montreal, 19-24 September 2010.
- 5 Mascolo G., Ciannarella R., Lopez A., Pagano M.
Enhanced removal of halogenated organics from industrial groundwater by sequential UV/H₂O₂ treatment and carbon adsorption
AOP5 - 5th IWA-Conference on Oxidation Technologies for Water and Wastewater Treatment, Berlin, Germany, March 30 - April 2, 2009
- 6 G. Mascolo, R. Ciannarella, A. Lopez, M. Pagano
Synergic effect of UV/H₂O₂–GAC treatment for the effective remediation of groundwater polluted by chlorinated organics
Proceeding: XXIII Congresso Nazionale della Società Chimica Italiana, Sorrento, 5-10 Luglio 2009, pag. 56 (paper ABC-OR-21).
- 7 Mascolo G., Comparelli R., Panniello A., Curri M. L., Agostiano A., Licciulli A., Locaputo V., Lopez A.
Nanocrystalline TiO₂ film on fibrous substrates as an efficient photocatalytic material for organics removal in water
AOP5 - 5th IWA-Conference on Oxidation Technologies for Water and Wastewater Treatment, Berlin, Germany, March 30 - April 2, 2009
- 8 Mininni G., Braguglia C.M., Mascolo G., Gianico A.
Separate processing of primary and secondary sludge for a sustainable sewage sludge management
Proceeding: 5th Canadian Residuals and Biosolids Conference, Milton, Ontario, Canada, 13-15 September 2009.
- 9 Barra Caracciolo A., Grenni P., Falconi F., Mascolo G., Uricchio V.F.
Ecological characterization of an abandoned open quarry used for disposal of pharmaceutical wastes.
Proceeding: II International Conference on the Remediation of Polluted Sites SAPIENZA University of ROME - May 13-15 2009, paper B22, pag. 1-6, ISBN: 978-88-902263-1-1.

- 10 G. Mininni, G. Mascolo, G. Bagnuolo
 Perturbations studies on incineration of sewage sludge spiked with chlorinated hydrocarbons.
 Proceeding: 32nd Event of Italian Section of The Combustion Institute, Combustion Colloquia, Napoli, 26-28 April 2009, paper I5.
- 11 G. Mascolo, P. Abbaticchio, D. Cassano, G. Laera, A. Lopez, A. Pollice, C. Salerno
 Integrated MBR-ozone system for pharmaceutical wastewater treatment.
 Proceeding: European Conference on Environmental Applications of Advanced Oxidation Processes - EAAOP2, Cyprus, 9-11 September 2009, ISBN: 978-9963-689-09-5.
- 12 G. Mascolo, R. Ciannarella, A. Lopez, M. Pagano
 Synergic effect of UV/H₂O₂-GAC treatment for the effective remediation of groundwater polluted by chlorinated organics
 Proceeding: European Conference on Environmental Applications of Advanced Oxidation Processes - EAAOP2, Cyprus, 9-11 September 2009, ISBN: 978-9963-689-09-5.
- 13 G. Mascolo, R. Ciannarella, A. Lopez, M. Pagano
 Remediation of groundwater polluted by chlorinated organics: the synergic effect of UV/H₂O₂ – activated carbon
 Proceeding: 15th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 7-11 October, 2009 Bari, Italy, pag. 118.
- 14 Mininni G., Braguglia C.M., Mascolo G., Gianico A.
 Sustainable sewage sludge management based on separate processing of primary and secondary sludge.
 Proceeding: 14th Conference "European Biosolids and Organic Resources, 9th - 11th November 2009, The Royal Armouries, Leeds, 1-14.
- 15 McArdell C.S., Asmin J., Ayuso-Gabella M.N., Balest L., Fink G., Hollender J., Mascolo G., Salgot M., Ternes T.A.
 Fate of Micropollutants in Two Artificial Recharge Sites with Reclaimed Wastewater
 Proceedings: IWA World Water Congress 2008, 7–12 September 2008, Vienna.
- 16 Panniello A., Comparelli R., Diso D., Licciulli A., Mascolo G., Locaputo V., Franza A. S., Striccoli M., Agostiano A., Curri M.L.
 Effect Of The Substrate Type/Composition And Deposition Techniques On The Photocatalytic Activity Of Nanocrystalline Semiconductor Films.
 Proceedings: 5th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 5), 4-8 October 2008
- 17 Mascolo G., Ciannarella R., Balest L., Lopez A.
 Effectiveness of UV-Based Advanced Oxidation Processes for the Remediation of Hydrocarbon Pollution in the Groundwater: a Laboratory Investigation.
 Journal of Hazardous Materials, 2008, 152/3, 1138-1145.
- 18 Pagano M., Lopez A., Volpe A., Mascolo G., Ciannarella R.
 Oxidation of nonionic surfactants by Fenton and H₂O₂/UV processes
 Environ. Technol., 2008, 29, 423-433.

- 19 Balest L., Mascolo G., Di Iaconi C., Lopez A.
Removal of Endocrine Disrupter Compounds from Municipal Wastewater by an Innovative Biological Technology.
Water Science & Technology 2008, 58(4), 953-956.
- 20 Balest L., Lopez A., Mascolo G., Di Iaconi C.
Removal of endocrine disrupter compounds from municipal wastewater using an aerobic granular biomass reactor.
Biochem. Eng. J. , 2008, 41, 288-294.
- 21 Lobasso S., Lopalco P., Mascolo G., Corcelli A.
Lipids of the ultra-thin square microorganism Haloquadratum walsbyi.
Archaea, 2008, 2, 177–183.
- 22 Angelico R., Ceglie A., Cuomo F., Colafemmina G., Cardellicchio C., Mascolo G.
Catanionic Systems from Conversion of Nucleotides into Nucleo-Lipids
Langmuir, 2008, 24, 2348-2355.
- 23 Mininni G., Di Iaconi C., Mascolo G., Pollice A.
New perspectives for up-grading wastewater treatment plants to meet the standards of water framework directive and directives on wastes.
Proceedings: Design, operation & economics of large wastewater treatment plants, IWA, Vienna 09/09/2007 - 13/09/2007, 109-112
- 24 Balest L., Laera G., Lopez A., Mascolo G., Pollice A.
Pharmaceutical wastewater treatment by an integrated AOP-MBR system: preliminary tests.
Proceedings: TIWATMED 2007, Technologies for Industrial Wastewater Treatment and Reuse in Mediterranean Region, Jerba, 24-26 May 2007, 182
- 25 Mascolo G., Balest L., Guzzella L., Locaputo V., Lopez A.
Degradation of Carbofuran in groundwater by UV and UV/H₂O₂: comparison of by-products formation and their toxicity
Proceedings: 5th IWA Specialized Conference on assessment and Control of Micropollutants/Hazardous Substances in Water, 17-20 Giugno 2007, Francoforte, 454-455.
- 26 De Tommaso B., Mascolo G., Malitesta C., Bagnuolo B., Uricchio V.F., Brunetti G.
Applicazione della tecnica TD/GC/MS per la determinazione diretta di PCB in campioni di suolo contaminati.
Proceedings: X Congresso Nazionale di Chimica dell'ambiente e dei Beni Culturali, Acaya, Vernole (Lecce), 11 - 15 Giugno 2007.
- 27 Panniello A., Comparelli R., Diso D., Licciulli A., Mascolo G., Franza A. S., Striccoli M., Agostiano A., Curri M.L.
Semiconducting nanocrystalline films for environmental photocatalysis: effect of the substrate type/composition and deposition techniques.
Proceedings: International RILEM Symposium on Photocatalysis, Environment and Construction Materials 8-9 October 2007, Florence, Italy, 65-75.
- 28 Balest L., Mascolo G., Di Iaconi D., Lopez A.
Rimozione di sregolatori endocrini (EDC) mediante trattamenti biologici innovativi.
Proceedings: X Congresso Nazionale di Chimica dell'ambiente e dei Beni Culturali, Acaya, Vernole (Lecce), 11 - 15 Giugno 2007.

- 29 Comparelli R., Panniello A., Corriceli M., Canizza E., Striccoli M., Mascolo G., Locaputo V., Agostano A., Curri M.L.
Colloidal nanocrystal films as catalysts for environmental applications.
Proceedings: International RILEM Symposium on Photocatalysis,
Environment and Construction Materials 8-9 October 2007, Florence, Italy,
259-266.
- 30 McArdell MC.S., Asmin J., Ayuso-Gabella M.N., Balest L., Fink G., Hollender J., Joss A., Kazner C., Krauss M., Mascolo G., Melin T., Salgot M., Siegrist H., Ternes T.A., Vanhoutte E., Weemaes M., Wintgens T., L. Yu
The Importance of Micropollutants in Aquifer Recharge with Reclaimed Wastewater
RECLAIM WATER REGIONAL WORKSHOP, Cape Town on Nov 30, 2007
- 31 Volpe A., Mascolo G., Ciannarella R., Del Moro G., Tandoi V.
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Proceedings: Ambiente: tecnologie, controlli e certificazioni per il recupero e la valorizzazione di materiali ed energie - gestione e bonifica dei siti inquinati, ECOMONDO, Rimini fiera, 07-10/11/2007, 302-307.
- 32 G. Mascolo, R. Comparelli, M. L. Curri, G. Lovecchio, A. Lopez, A. Agostiano
Photocatalytic Degradation of Methyl-Red By TiO₂: Comparison of the Efficiency of Immobilized Nanoparticles vs Conventional Suspended Catalyst.
Journal of Hazardous Materials, 2007, 142(1-2), 130-137.
- 33 Tandoi V., Del Moro G., Mascolo G., Ciannarella R., Volpe A.
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Italian Journal of Engineering, Geology and Environment, 2007 (Special Issue), (1) 79-84.
- 34 Ventrella A., Catucci L., Mascolo G., Corcelli A., Agostiano A.
Isolation and characterization of lipids strictly associated to PSII complexes: focus on cardiolipin structural and functional role.
Biochimica et Biophysica Acta, 2007, 1768, 1620-1627.
- 35 Lionetti N., Rigano L., Mascolo G., Ciannarella R.
A New Analytical Method for Determination of Secondary Alkanolamines Impurities in Primary and Tertiary Alkanolamines
Söfw-Journal, 2007, 133, 28-32
- 36 G. Mascolo, G. Lovecchio, R. Ciannarella, A. Lopez
Remediation of MTBE and hydrocarbons polluted groundwater by UV/H₂O₂ and UV/TiO₂.
Proceedings: 4rd International Conference on Oxidation Technologies for Water and Wastewater Treatment, Goslar (Germany), 15-17 May 2006, 474-479.
- 37 Ventrella A., Catucci L., Depalo N., Mascolo G., Corcelli A., Agostiano A.
Structural and functional characterization of cardiolipin from spinach PSII-enriched membrane fractions.
Proceedings: 16th International Conference on Photochemical Conversion and Storage of Solar Energy, Uppsala (S), July 2-7 2006, W6-P-9.

- 38 Ventrella A., Catucci L., Mascolo G., Corcelli A., Agostiano A.
Phospholipid from spinach PSII-enriched membrane fractions: structural and functional characterization.
Proceedings: XIXth International Symposium on Bioelectrochemistry and Bioenergetics, Toulouse (F), 1-4 April 2007, 136.
- 39 G. Mascolo, R. Rausa, G. Bagnuolo, G. Mininni, L. Tinucci
Thermal degradation of synthetic lubricants under oxidative pyrolytic conditions.
Journal of Analytical and Applied Pyrolysis, 2006, 75 (2), 167-173.
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Cosmetic Technology, 2006, 9(5), 19-22.
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Structure elucidation of carbofuran photodegradation by-products by LC/ESI-qTOF-MS.
Proceedings: Liquid Chromatography-Tandem Mass Spectrometry for Screening and Trace Level Quantitation in Environmental and Food Samples, Barcelona 20- 21 Giugno 2005, 36-40.
- 42 C. Di Iaconi, L. Balest, G. Mascolo, A. Lopez
Removal of endocrine disrupter compounds from municipal wastewater by aerobic granulation technology: residual concentrations monitoring by SPE and both LC/ESI-MS and LC/ESI-qTOF-MS-MS.
Proceedings: Liquid Chromatography-Tandem Mass Spectrometry for Screening and Trace Level Quantitation in Environmental and Food Samples, Barcelona 20- 21 Giugno 2005, 93-94.
- 43 R. Comparelli, E. Fanizza, M. L. Curri, P. D. Cozzoli, G. Mascolo, R. Passino, A. Agostiano
Photocatalytic Degradation of Azo Dyes by Organic-Capped Anatase TiO₂ Nanocrystals Immobilized onto Substrates.
Applied Catalysis B: Environmental, 2005, 55(2), 81-91.
- 44 Lopez A., Mascolo G., Detomaso A., Lovecchio G., Villani G.
Temperature activated degradation (mineralization) of 4-chloro-3-methyl phenol by Fenton's reagent.
Chemosphere, 2005, 59(3), 397-403.
- 45 G. Mascolo, A. Lopez, A. Detomaso, G. Lovecchio
Ion chromatography/electrospray mass spectrometry for the identification of low molecular weight organic acids during the 2,4-dichloro-phenol degradation.
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Applied Catalysis B: Environmental, 2005, 59, 249-257.
- 47 R. Comparelli, E. Fanizza, M. L. Curri, P. D. Cozzoli, G. Mascolo, A. Agostiano
UV-Induced Photocatalytic Degradation of Azo Dyes by Organic-Capped ZnO Nanocrystals Immobilized onto Substrates.
Applied Catalysis B: Environmental, 2005, 60, 1-11.

- 48 A. Detomaso, G. Mascolo, A. Lopez
Characterization of carbofuran photodegradation by-products by liquid chromatography/hybrid quadrupole time-of-flight/mass spectrometry. *Rapid Communication in Mass Spectrometry*, 2005, 19, 2193–2202.
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Reductive dechlorination of the herbicides triallate and acetochlor by zero-valent iron.
Proceedings: ECOR-1 “The First European Conference on Oxidation and Reduction Technologies for Ex-Situ and In-Situ Treatment of Water, Soil and Air”, Göttingen, Germany, April 25-28, 2004, 94.
- 50 Mascolo G., Rausa R., Mininni G., Tinucci L.
The gas phase decomposition of fire-resistant lubricants under pyrolytic conditions.
Journal of Analytical and Applied Pyrolysis, 2004, 71(1), 165-178.
- 51 Comparelli R., Cozzoli P. D., Curri M. L., Agostiano A., Mascolo G., Lovecchio G.
Photocatalytic degradation of methyl-red by immobilized nanoparticles of TiO₂ and ZnO.
Water Science Technology, 2004, 49 (4), 183-188.
- 52 Mascolo G., Detomaso A., Lovecchio G., Ciannarella R., Locaputo V.
Degradazione del 2,4-diclorofenolo con il reattivo di Fenton attivato termicamente
Acqua-Aria, 2004, 6-7, 22-26. (ISSN 1591-1616)
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Water Science Technology: Water Supply, 2004, 4(5-6), 313-319.
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Chemosphere, 2004, 57(7), 579-586.
- 57 G. Mascolo, A. Detomaso, A. Lopez, A. C. Di Pinto
Low molecular weight organic acids identification by ion chromatography/electrospray mass spectrometry during the degradation of 2,4-dichloro-phenol by Fenton’s reagent.
Proceedings: Massa 2004 – An International Symposium on Mass Spectrometry, Bari, 26-30 settembre 2004, 53-54.
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Proceedings: Massa 2004 – An International Symposium on Mass Spectrometry, Bari, 26-30 settembre 2004, 176-177.
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