

DR. GIUSEPPE MASCOLO – SHORT CV

Current position

Senior research scientist at Water Research Institute (IRSA) of Italian National Research Council (CNR).

Professional Interests:

- 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 emissions.

Education:

M. S., Chemistry, University of Bari, Italy, 1987.

Work experiences

1988 Research fellowship at the Polymer Institute of Polytechnic of Zurich (E.T.H.) working in the field of the reverse micelles chemistry.

1992 Visiting scientist at the Water Research Centre (WRc) - Medmenham (UK) working on organic pollutants degradation by advanced oxidation processes.

1993 Visiting scientist at the Environmental Sciences and Engineering Laboratory of the University of Dayton – Research Institute working on the formation and destruction kinetics of bromo- and chloro-dioxins during incineration of bromo- and chloro-phenols.

1998 Visiting scientist at the Institute of Environmental Technology - Department of Water Quality Control of Technical University of Berlin working on the characterization of the toxic organic fraction of industrial wastewater.

Other activities (experience if any in Peer Review, Evaluation/Validation, Impact Assessment, Monitoring, Quality Assurance or Auditing)

- Referee of international scientific journals (Industrial and Engineering Chemistry Research, Journal of the Air & Waste Management Association, Combustion and Flame, Chemosphere, Water Research, Environmental Science & Technology, J. Hazardous Materials, etc.).
- Referee of the Fonds de la Recherche Scientifique – FNRS, Belgium.
- Referee of Italian Ministry of University for the evaluation of research projects.
- Referee of Puglia Region for the evaluation of research projects.

Affiliations:

International Ozone Association

Publications

- 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. Diomede, 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. Diomede, 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 Mc Ardell 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, XX
- 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.,
Agostiano 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.
MTBE removal from an Italian national interest site by biological and AOT process.
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.
Remediation of Contaminated Aquifers by Biological and Advanced Oxidation Processes:
The Aquatec Project.
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.
- 40 Lionetti N., Rigano L., Mascolo G., Ciannarella R.
Ammine secondarie in alcanolammine primarie e terziarie.
Cosmetic Technology, 2006, 9(5), 19-22.
- 41 G. Mascolo, A. Detomaso, A. Lopez
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.
Journal of Chromatography A, 2005, 1067(1-2), 191-196.
- 46 P. Raja, A. Bozzi, W. F Jardim, G. Mascolo, R. Renganathan, J. Kiwi
Reductive/Oxidative Treatment with Superior Performance Relative to Oxidative Treatment During the Degradation of 4-Chlorophenol.
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.
- 49 Volpe, A., G. Mascolo, A. Lopez
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)
- 53 Del Moro G., Lovecchio G., Mascolo G., Tandoi V., Volpe A.
Remediation of Groundwater at a Contaminated Site in Southern Italy: A Comparison
Between Bioremediation and Advanced Chemical Oxidation Approaches.
Proceedings: European Summer School "Innovative approaches to the bioremediation of
contaminated sites" Bologna, 7-11 Settembre 2004.
- 54 A. Corcelli, V. M. T. Lattanzio, G. Mascolo, F. Babudri, A. Oren, M. Kates
A novel sulfonolipid in the extremely halophilic bacterium *Salinibacter ruber*.
Applied and Environmental Microbiology, 2004, 70(11), 6678–6685.
- 55 G. Mascolo, A. Lopez, A. Detomaso, L. Guzzella
UV Degradation of Carbofuran Insecticide in Aqueous Solution: Identification and Toxicity
Evolution of By-products.
Water Science Technology: Water Supply, 2004, 4(5-6), 313-319.
- 56 Volpe A., Lopez A., Mascolo G., Detomaso A.
Chlorinated herbicide (triallate) dehalogenation by iron powder.
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.
- 58 A. Detomaso, G. Mascolo, G. Lovecchio, A. Lopez
Characterization of carbofuran photodegradation by-products by liquid
chromatography/QqTOF/mass spectrometry
Proceedings: Massa 2004 – An International Symposium on Mass Spectrometry, Bari, 26-30
settembre 2004, 57-58.
- 59 V. Lippolis; M. Haidukowski; M. Pascale; G. Mascolo; A. Visconti
Synthesis and characterization by LC/QqTOF/mass spectrometry of fluorescent derivatives
of trichothecenes useful for development of new analytical methods.
Proceedings: Massa 2004 – An International Symposium on Mass Spectrometry, Bari, 26-30
settembre 2004, 112-113.

- 60 V. M. T. Lattanzio; G. Mascolo; F. Babudri, A. Oren, M. Kates, A. Corcelli
Structure characterization of a novel sulfonolipid from *Salinibacter ruber* by electrospray
ionisation quadrupole time-of-flight tandem mass spectrometry.
Proceedings: Massa 2004 – An International Symposium on Mass Spectrometry, Bari, 26-30
settembre 2004, 176-177.
- 61 Lattanzio V. T., Corcelli A., Mascolo G., Oren A.
Presence of two novel cardiolipins in the halophilic archaeal community in the crystallizer
brines from the salterns of Margherita di Savoia (Italy) and Eilat (Israel).
Extremophiles, 2002, 6, 437–444.
- 62 Curri M. L., Comparelli R., Cozzoli P. D., Mascolo G., Agostiano A.
Colloidal oxide nanoparticles for the photocatalytic degradation of organic dye.
Material Science & Eng. C., 2003, 285-289.
- 63 Lopez A., Bozzi A., Mascolo G., Kiwi J.
Kinetic investigation on UV and UV/H₂O₂ degradations of pharmaceutical intermediates in
aqueous solution.
Journal of Photochemistry and Photobiology A: Chemistry, 2003, 156 (1-3) pp. 121-126.
- 64 Foti C., Bonamonte D., Mascolo G., Corcelli A., Lobasso S., Rigano L., Angelini G.
The role of 3-dimethylaminopropylamine and amidoamine in contact allergy to
cocamidopropylbetaine.
Contact Dermatitis, 2003, 48, 194–198.
- 65 Detomaso A., Lopez A., Lovecchio G., Mascolo G., Curci R.
Practical applications of the Fenton reaction to the removal of chlorinated aromatic
pollutants. Oxidative degradation of 2,4-dichlorophenol.
Environmental Science and Pollution Research, 2003, 10(6), 379-384.
- 66 Lopez A., Mascolo G., Detomaso A., Lovecchio G., Ciannarella R., Curci R.
Temperature effect on 2,4-dichlorophenol degradation by Fenton's reagent.
Proceedings: 3rd International Conference on Oxidation Technologies for Water and
Wastewater Treatment, Goslar (Germany), 18-22 May 2003, 470-475.
- 67 Bozzi A., Lopez A., Mascolo G., Ciannarella R., Tiravanti G.
UV and H₂O₂/UV degradation of a pharmaceutical intermediate in aqueous solution.
Annali di Chimica, 2002, 92(1-2), 41-51.
- 68 Mascolo G., Mininni G., Bagnuolo G., Lotito V., Spinosa L.
Distruzione e formazione di microinquinanti organici nel processo di incenerimento.
Rifiuti Solidi, 2002, XVI (2), 82-96. (ISSN 0394-5391)
- 69 Corcelli A., Lattanzio V. M. T., Mascolo G., Papadia P., Fanizzi F.
Lipid-protein stoichiometries in a crystalline biological membrane: NMR quantitative analysis
of the lipid extract of the purple membrane.
Journal of Lipid Research, 2002, 43, 132-140.
- 70 Bozzi A., Lopez A., Mascolo G., Tiravanti G.
Pharmaceuticals degradation by UV and UV/H₂O₂ treatments.
Water Science Technology: Water Supply, 2002, 2(2), 19-26.
- 71 Mascolo G., Lopez A., Bozzi A., Sonnante G., Tiravanti G.
By-products formation during the ozonation of the reactive dye Uniblu-A.
Ozone Science & Engineering, 2002, 24(6), 439-446.
- 72 Mininni G., Mascolo G.
Puff production during incineration of sewage sludge spiked with chlorinated hydrocarbons.
Proceedings: Combustion and Sustainable Development, 3-5 Giugno 2002, Roma, IV 17-20.
- 73 Mascolo G., Mininni G., Bagnuolo G., Lotito V., Spinosa L.
Distruzione e formazione di microinquinanti organici nel processo di incenerimento.
In: *Processi termici con recupero di energia per lo smaltimento di fanghi e di rifiuti speciali
anche pericolosi*.
Quaderno Istituto di Ricerca Sulle Acque n.115, 200, pag. 124-159, Marzo 2001.
- 74 Collina E., Lasagni M., Mascolo G., Mininni G., Pitea D., Tettamanti M.
Termodistruzione dei rifiuti pericolosi: aspetti teorici e pratici.
Quaderno Istituto di Ricerca Sulle Acque n.116, Luglio 2001.

- 75 Herrera F., Lopez A., Mascolo G., Albers P., Kiwi J.
Catalytic decomposition of the reactive dye Uniblue A on hematite. Modelling of the reactive surface.
Water Research, 2001, 35(3), 750-760.
- 76 Herrera F., Lopez A., Mascolo G., Albers P., Kiwi J.
Catalytic combustion of Orange II on hematite. Surface species responsible for the dye degradation.
Applied Catalysis B: Environmental, 2001, 29 (2), 147-162.
- 77 Mascolo G., Lopez A., James H., Fielding M.
By-products formation during disinfection of herbicide (isoproturon) contaminated water. I: ozonation.
Water Research, 2001, 35(7), 1695-1704.
- 78 Mascolo G., Lopez A., James H., Fielding M.
By-products formation during disinfection of herbicide (isoproturon) contaminated water. II: chlorination.
Water Research, 2001, 35(7), 1704-1713.
- 79 Lopez A., Mascolo G., Ciannarella R., Tiravanti G.
Formation of volatile halogenated by-products during chlorination of isoproturon aqueous solutions.
Chemosphere, 2001, 45(3), 269-274.
- 80 Foti C., Bonamonte D., Mascolo G., Tiravanti G., Rigano G., Angelini G.
Aminoethylethanolamine: a new allergen in cosmetics?
Contact Dermatitis, 2001, 45, 129-133.
- 81 Corcelli A., Colella M., Mascolo G., Fanizzi F. P., Kates M.
A Novel Glycolipid and Phospholipid in the Purple Membrane
Biochemistry, 2000, 39, 3318-3326.
- 82 Leo L., Mele G., Rosso G., Valli L., Vasapollo G., Guldi D. M., Mascolo G.
Interfacial properties of substituted Fulleropyrrolidines on the water surface.
Langmuir, 2000, 16(10); 4599-4606.
- 83 Mascolo G., Mininni G.
Distruzione e formazione di microinquinanti organici nel processo di incenerimento
Convegno: Processi termici con recupero di energia per lo smaltimento dei rifiuti speciali anche pericolosi, Bari, 17 Marzo 2000.
- 84 Mascolo G.
LC-MS: nuove interfacce, applicazioni in campo ambientale.
In: Il Monitoraggio Ambientale, N. Cardellicchio e S. Cavalli Eds., Nuova Poligrafica Milanese, Milano, pag. 205-224, 2000.
- 85 Mingazzini M., Ricco G., Mascolo G., Lopez A.
Approccio Tossicologico per la Valutazione del Processo Ossidativo di Rimozione degli Erbicidi dalle Acque Potabili
Proceedings "XX Congresso Nazionale della Società Chimica Italiana", Rimini 4-9 Giugno 2000, AM-PO063.
- 86 Ricco G., Mascolo G., Tiravanti G., Lopez A.
Clorazione di acque contaminate dall'erbicida isoproturon: formazione di sottoprodotti e modifica della tossicità.
Proceedings "XX Congresso Nazionale della Società Chimica Italiana", Rimini 4-9 Giugno 2000, AM-PO081.
- 87 Lopez A., Bozzi A., Mascolo G., Ciannarella R., Tiravanti G.
Degradation of pharmaceutical intermediates by UV and UV/H₂O₂: kinetics and by-products.
Proceedings: The Sixth International Conference on Advanced Oxidation Technologies for Water and Air Remediation, 25-30 Giugno 2000, London, Ontario, Canada, 12-13.
- 88 G. Mascolo, V. Lotito, L. Spinosa, G. Mininni, G. Bagnuolo
Influence of thermal failure on PAH emission during lab-scale incineration.
Environmental Engineering Science, 1999, 16(4), 287-292

- 89 Rausa R., Mascolo G., Bassetti A.
The thermal treatment of sediments as a function of temperature and reacting atmosphere.
Journal of Applied Pyrolysis, 1999, 49, 425-445
- 90 Mininni G., Spinosa L., Lotito V., Marani D., Mascolo G., Di Pinto A.C., Passino R.
Behaviour of micropollutants in sludge incineration.
J. of Environ. Instrumentation, Control and Automation, 1999, 3(4), 1-16.
- 91 Földényi R., Dudás J., Mascolo G., Lopez A.
Selectivity in oxidation reactions of methylthio substituted pyrimidines and triazines.
Hungarian Journal of Industrial Chemistry, 1999, 27(2), pp. 137-142.
- 92 Mascolo G., Dentel S. K., Spinosa L.
Influence of conditioning Polymer on emission of PICs in biosolids incineration.
Proc. Int. Conf.: WEFTEC, 72nd Annual Conference & Exposition, Water Environment Federation, Ottobre 9-13, 1999.
- 93 Mascolo G., Lopez A., Sonnante G., Földényi R.
Pesticides removal during groundwater disinfection.
Proc. Int. Conf.: Second International Conference on Environmental Engineering, Veszprem (H), 29 Maggio –5 Giugno 1999, pag. 221-228.
- 94 Földényi R., Bircsák É., Mascolo G.
Study of environmental impact of the application of isoproturon herbicide.
Proceedings of the 5th Symposium on Analytical and Environmental Problems, 20 Maggio 1999, Szeged, Ungheria, pp. 123-133.
- 95 Mascolo G., Spinosa L., Tiravanti G., Bagnuolo G.
Processi di combustione di materiali organici e qualità delle emissioni.
Il Scuola Nazionale "I Rifiuti", Società Chimica Italiana – Divisione di Chimica Ambientale, 19-22 Settembre 1999, Martina Franca (TA).
- 96 Lopez A., Mascolo G., Tiravanti G., Passino R.
Formation of herbicides degradation by-products during groundwater disinfection: a LC-MS investigation.
Russian Journal of Analytical Chemistry, 1998, 9, 974-978
- 97 Lopez A., Ricco G., Mascolo G., Tiravanti G., Di Pinto A. C., Passino R.
Biodegradability enhancement of refractory pollutants by ozonation: a laboratory investigation on an azo dye intermediate (fast-violet-B).
Water Science Technology, 1998, 38, 239-245.
- 98 Pizzigallo M. D. R., Ruggiero P., Crecchio C., Mascolo G.
Oxidation of chloroanilines et metaloxides surfaces.
J. Agric. and Food Chem., 1998, 46(5), 2049-2054.
- 99 D. Petruzzelli, G. Mascolo, G. Barile, G. Tiravanti, A. Marton
STDS study for the identification of released compounds from commercial ion exchange resins.
Reactive Polymers, 1997, 35, 89-98.
- 100 G. Mascolo, L. Spinosa, V. Lotito, G. Mininni, G. Bagnuolo
Lab-scale evaluations on formation of products of incomplete combustion in hazardous waste incineration: influence of process variables.
Water Science Technology, 1997, 36(11), 219-226.
- 101 Capri S., Mascolo G., Petruzzelli D., Pettine M.
Problematiche analitiche in attività di controllo e studi ambientali.
Inquinamento, 1997, 9, 45-48. ((ISSN 0001-4982)
- 102 G. Mascolo, A. Lopez,, G.Tiravanti, G. Sonnante
Identificazione mediante HPLC-MS dei prodotti di degradazione dell'erbicida isoproturon durante processi di disinfezione.
Atti del Congresso: Massa '97. Congresso Nazionale della Divisione di Spettrometria di Massa della Società Chimica Italiana. Urbino, 29 Settembre - 3 Ottobre 1997, pag.53.

- 103 Mascolo G., Lopez A., Tiravanti G., Sonnante G.
Isoproturon removal during drinking water disinfection by chlorine-based chemicals.
Proc. Int. Workshop "New challenges for environmental University study", Vienna, 20-22
Marzo 1997, pag. 195-201.
- 104 Carrieri G., Caselli M., Lopez A., Mangone A., Mascolo G., Traini A.
Fotodegradazione catalizzata di idrocarburi policiclici aromatici in matrici acquose.
Separazione e caratterizzazione degli intermedi mediante GC-MS.
Atti del XIII congresso nazionale di chimica analitica, S. Martini al Cimino (VT), 7-11
Settembre 1997, pag. 176-177.
- 105 A.Lopez, G. Mascolo, G. Tiravanti, R. Passino
Degradation of herbicides (Ametryn and Isoprotron) during water disinfection by means of
two oxidants (hypochlorite and chlorine dioxide).
Water Science Technology, 1997, 35, 129-136.
- 106 G. Mascolo, V. Lotito, L. Spinosa, G. Mininni, G. Bagnuolo
Influence of thermal failure on PICs emission during lab-scale sludge incineration
Proc. Int. Conf.: "The Fifth International Conference on Toxic Product of Combustion",
Dayton, USA, 25-27 Giugno 1997, pag. 106.
- 107 Petruzzelli D., Mascolo G., Tiravanti G., Passino R.
Identification of released compounds from reactive polymers. An STDS study.
Gordon Research Conference on Reactive Polymers, Ion Exchange and Adsorbents. 20-25
Luglio 1997, New England College, Henniker, NH, USA.
- 108 A. Lopez, G. Mascolo, R. Földényi, R. Passino
Disinfection by-products formation during hypochlorination of isoproturon contaminated
groundwater.
Water Science Technology, 1996, 34, 351-358.
- 109 A. Lopez, G. Ricco, G. Mascolo, R. Ciannarella, G. Tiravanti, R. Passino
Chemical degradation and biodegradability enhancement of a recalcitrant dye (fast-violet-B)
by ozonation.
Proc. Int. Workshop "Environmental Technologies and Strategies", Vienna, 31 Gennaio-2
Febbraio 1996, pag. 41-47.
- 110 M.D.R. Pizzigallo, C. Crecchio, P. Ruggiero, G. Mascolo
Trasformation of chloroanilines by manganese and iron oxides.
Proc. Int. Conf.: "Pesticides in Soil and the Environment", Stratford-upon-Avon (UK), 13-15
Maggio 1996, pag. 137-138.
- 111 L. Spinosa, V. Lotito, G. Mascolo, G. Mininni
Experiences in sewage and hazardous sludges incineration.
Proc. Int. Seminar: "Management and Protection of Environment", Bratislava (SK), 20-24
Maggio 1996, pag. 175-192.
- 112 G. Mascolo, G. Bagnuolo, V. Lotito, M. Mitolo, L. Spinosa
On-line organic compounds identification during lab-scale incineration of environmental
samples.
Proc. Int. Conf.: "Euroanalysis IX, European Conference on Analytical Chemistry", Bologna
1-7 Settembre 1996. Paper Fr L21.
- 113 S. S. Sidhu, L. Maqsd, B. Dellinger, G. Mascolo
The homogeneous, gas-phase formation of chlorinated and brominated dibenzo-p-dioxins
from 2,4,6-trichloro- and 2,4,6-tribromophenols.
Combustion and Flame, 1995, 100, 11-20.
- 114 G. Mascolo, A. Lopez, R. Földényi, R. Passino, G. Tiravanti
Prometryne oxidation by sodium hypochlorite in aqueous solution: kinetics and mechanism.
Environmental Science & Technology, 1995, 29(12), 2987-2991.
- 115 A. Lopez, G. Mascolo
Reazioni di inquinanti organici con cloro e biossido di cloro.
In "Potabilizzazione delle acque: qualità ed interventi gestionali", C. Nurizzo e P. Berbenni
Eds., Politecnico di Milano Editrice, Cap. XIX pp.21, 1995.

- 116 A. Marton, G. Mascolo, D. Petruzzelli, G. Tiravanti
STDS study of some commercial anion exchange resins.
Proc. Int. Conf.: "IONEX'95, 4th International Conference on Ion Exchange", Wrexham (UK),
10-14 Settembre 1995, pag. 365-371.
- 117 A. Lopez, G. Mascolo, G. Tiravanti, M. Santori, R. Passino
Oxidation of sulphur containing s-triazines during groundwater hypochlorination.
Water Science Technology, 1994, 30(7), 53-59.
- 118 G. Mascolo, A. Lopez, R. Passino, G. Ricco, G. Tiravanti
Degradation of sulphur containing s-triazines during water chlorination.
Water Research, 1994, 28(12), 2499-2506.
- 119 A. Lopez, G. Mascolo, R. Földényi, G. Tiravanti, M. Santori
Prometryne degradation during water disinfection by hypochlorite.
Proc. Int. Conf.: "Disinfection of Potable Water", Kruger National Park, South Africa, 13-18
March 1994, paper no.23, 1-16.
- 120 A. Lopez, G. Mascolo, G. Tiravanti, R. Passino
HPLC-MS identification of herbicides oxidation by-products formed during groundwater
disinfection.
Proc. Int. Symp.: "Chromatography and Mass Spectrometry in Environmental Analysis", St.
Petersburg, Russia, 3-7 Ottobre, 1994.
- 121 Lotito V., Mascolo G., Mininni G., Spinosa L.
Preliminary experiences of sludge and hazardous compound incineration.
Proceedings of the Meeting "Hazardous Waste Management", Environment Technology
Arka Konsorcjum, Poznan (Polonia), 20-22 Novembre 1994.
- 122 Mascolo G.
HPLC-MS identification of chlorination by-products of sulphur-containing triazine herbicide.
VG Analytical/VG Biotech European User Meeting 1993, 25-26 Febbraio, Manchester, UK.
- 123 A. Lopez, G. Mascolo, G. Tiravanti, G. Sonnante
Degradazione di triazine solforate durante i processi di clorazione di acque potabili.
Atti del congresso "Massa '93 - Chimica e Biotecnologie agro-alimentari", Lacco Ameno -
Ischia (NA), 13-18 Settembre 1993, p. 82.
- 124 Mascolo G., Lopez A., Tiravanti G.
Disinfezione di acque di falda: identificazione dei prodotti di clorazione dell'erbicida
prometrina mediante HPLC-MS.
Inquinamento, 1992, No.10, 84-87. (ISSN 0001-4982)
- 125 Hutchison J., Mascolo G., Lunt D. and Odgen T.
Effects of disinfection on organic substances in water.
Progress Report to the Department of the Environment, January to June 1992, WRc plc,
Henley Road, Medmenham, PO Box 16, Marlow, Bucks, England.
- 126 Lang J., Mascolo G., Zana R. and Luisi P.L.
Structure and dynamics of cetyltrimethylammonium bromide water-in-oil microemulsion.
Journal of Physical Chemistry 1990, 94, 3069-74.
- 127 Mascolo G., Giustini M., Luisi P.L. and Lang J.
Endogenous growth of the population of reverse micelles.
Journal of Colloid and Interface Science, 1990, 140, No.2, 401-407.
- 128 Fiandanese V., Marchese G., Mascolo G., Naso F., Ronzini L.
Stereospecific synthesis of (1E,3Z)- and (1E,3E)-1-trimethyl-silyl-1,3-dienes by means of
sequential cross-coupling reactions.
Tetrahedron Letters 1988, 29, 3705-8.