

Paolo ROCCARO, Ph.D. Eng.

Full Professor of Sanitary & Environmental Engineering

Dipartimento di Ingegneria Civile e Architettura, Università degli Studi di Catania, Italia.

Viale A. Doria, 6, 95125 Catania, Italia, Phone: 095 7382716, fax: 095 7382748,

email: paolo.roccaro@unict.it.

EDUCATION

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| 2008 | Ph.D. in Civil and Environmental Engineering , University of Salerno (Italy). |
| 2004 | “Laurea” (5 years degree) in Civil Engineering , University of Catania (Italy). |

POSITIONS HELD AND RELVANT EXPERIENCE

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| 2014 - 2018 | Associate Professor, Department of Civil Engineering and Architecture , University of Catania, Italy. |
| 2011 | Fulbright Scholar, University of Arizona (Tucson, USA) , Department of Chemical and Environmental Engineering, BIO5 Institute and Arizona Laboratory for Emerging Contaminants (ALEC). |
| 2008 - 2014 | Assistant Professor, Department of Civil Engineering and Architecture , University of Catania, Italy. |
| 2007 - 2008 | Aggregate Professor, University of Catania , Department of Civil and Environmental Engineering. |
| 2003 - 2008 | Research Associate, University of Catania , Department of Civil and Environmental Engineering |
| 2005 - 2006 | Visiting Scholar, University of Washington , Department of Civil and Environmental Engineering |

AWARDS and HONORS

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| 2009 - Present | Member of the Management Committee of the Specialist Group “Water Reuse” of the International Water Association (IWA) . |
| 2016 | Awarded under the Erasmus Program for giving seminars at the Ghent University . |
| 2010 - 2011 | Winner of the Fulbright Scholarship “Fulbright Scholar Program Advanced Research and University Lecturing Awards in the United States”, category “Research Scholar”. |
| 2011 | Awarded from the Council for International Exchange of Scholars (CIES) for the invited seminar “Removal and control of micro-pollutants in drinking water” held at the University of Nevada – Las Vegas, Department of Civil and Environmental Engineering. |
| 2011 | Invited seminar at the Southern Nevada Water Authority on “Real time monitoring of emerging chlorination by-products in drinking water by using surrogates”, Las Vegas. |

- 2011 **Awarded from the Council for International Exchange of Scholars (CIES) for the invited seminar** “Water quality issues in natural and engineered systems: experiences and perspectives in Sicily” Seminar at the University of California, Riverside, Bourns College of Engineering, Department of Chemical and environmental Engineering.
- 2011 **Summer Mini-Symposium, invited seminar** on “Formation and control of chlorination by-products by spectroscopic approach” at University of California, Irvine, Urban Water Research Center.
- 2011 **Awarded for the outstanding contribution as a member of the Scientific Committee of the 8th IWA International Conference on Water Reclamation and Reuse** for the review of many submitted papers.
- 2009 **Advisor** (jointly with professor Vagliasindi F.G.A.) of the thesis on “Airborne asbestos-like fibres released in indoor ambient from contaminated drinking water: a full scale experimental study” (in Italian) which received the **Special Mention of the Scientific and Advisory Committees of the Remediation Technologies Expo (RemTech 2009)**.
- 2009 **Invited to the Gordon Research Conference** on “Drinking Water Disinfection By-Products”, Mount Holyoke College, South Hadley, MA.
- 2008 **Best poster presentation** “Fluorescence of NOM and its use to predict DBP formation”, 4th IWA Specialist Conference “Natural Organic Matter: from Source to Tap”, supported by: IWA Specialist Groups on (i) Design, Operation and Maintenance of Drinking Water Treatment Plants (ii) Disinfection and organized by Cranfield University.

CURRENT AND COMPLETED RESEARCH PROJECTS

- 2018 - 2020 **PI - (Funding from the University of Catania)** Advanced processes for the removal of emerging contaminants from water (PACEm).
- 2018 - 2020 **PI - (Funding from the Italian Ministry of Environment)** Recovery and use of Volcanic Ash from Mt. Etna – REUCET.
- 2014 - 2016 **PI - FIR 2014 (Funding from the University of Catania)** Evaluation of Alternative “End-of-Waste”, in the fields of Civil and Environmental Engineering, of Volcanic Ash from Mt. Etna - VALICA-ETNA.
- 2011 - 2013 **Co-PI - PRIN 2009** - Development of a decision support system to assess the feasibility and sustainability of reuse projects and evaluation of occurrence and issues of emerging contaminants in different type and size of wastewater treatment plants (grant 20092MES7A_002) **funded by the Ministry of Education, University and Research (MIUR)**.
- 2012 **PI** – Waste recycling in the production of concrete: evaluation of environmental feasibility, **funded by the University of Catania**, Grant for “active researchers”,
- 2012 **PI** – Environmental monitoring during tunnelling works, **funded by Gestione Governativa Ferrovia Circumetnea (FCE)**.
- 2011 **PI** - The U.S.-Italy Fulbright Commission: Evaluation of the removal of emerging contaminants from water during advanced oxidation processes using surrogates. **Research Project funded by the U.S.-Italy Fulbright Commission**, Fulbright Scholar.
- 2009 **Participant** – Removal of asbestiform fibers from groundwater in the Site of National Interest of Biancavilla (CT), **funded from the Sicilian Commissary for the site remediation and water protection**.
- 2002 - 2006 **Participant** - PON ACQUATEC “Innovative Technologies of control, treatment and maintenance to overcome the water emergency”, **funded by the Ministry of Education**,

	University and Research (MIUR).
	Participant - PRIN 2006: Criteria and tools for environmental remediation and functional regeneration of contaminated sites (grant 2006081991_001), funded by the Ministry of Education, University and Research (MIUR).
2008-2011	Participant – PRA 2008-2011: Asbestiform fibers in groundwater intended for human consumption in the Site of National Interest of Biancavilla (CT). Occurrence, exposure, health risk and removal, funded by the University of Catania.
2007-2009	Participant – PRA 2007: Sustainable management of Urban Solid Waste, funded by the University of Catania.
2005 - 2006	Participant - EPA/Cadmus (grant 069-UW-1): Characterization of Natural Organic Matter (NOM) in Washington, D.C. Drinking Water (PI Gregory Korshin, University of Washington di Seattle).
2004 - 2007	Participant - PRIN 2004: Control and monitoring of drinking water quality (grant 2004088734), funded by the Ministry of Education, University and Research (MIUR).
2006	Participant – Study of the reception and treatment facility for bilge water, funded by MAXCOM Petroli S.p.A.
2005	Participant – Treatment of dirty ballast water, funded by MAXCOM Petroli S.p.A.
2003	Participant – European Union (V Framework Program): “Program confirming the international role of community research”, Project “Water resources management under drought conditions: criteria and tools for conjunctive use of conventional and marginal waters in Mediterranean regions. INCOMED, WAM-ME (Project n° ICA3-CT-1999-00014), 2003.

GRADUATE STUDENTS AND POST-DOCTORAL RESEARCHERS MENTORED/EVALUATED

2017 - present	Advisor: n.1 Ph.D. student in “Evaluation and mitigation of environmental risk” Department of Civil Engineering and Architecture, University of Catania – Candidate Gagliano Erica.
2018	External Evaluator: n.1 Ph.D. thesis Candidate PIAZZOLI Andrea “OPTIMIZATION OF ACTIVATED CARBON ADSORPTION FOR MICROPOLLUTANT REMOVAL FROM DRINKING WATER”, Politecnico di Milano.
2017	Member of the Board of Examiners: Doctor (PhD) in Applied Biological Sciences, Faculty of Bioscience Engineering, Ghent University – “Surrogate-based online monitoring and control framework for trace organic contaminant removal during ozonation of secondary wastewater effluent - from lab-scale to practical application” Ghent, 14 December 2017.
2016	Member of the Examination Committee of the joint PhD degree in Environmental Technology - Erasmus Joint doctorate programme in Environmental Technology for Contaminated Solids, Soils and Sediments (ETeCoS3) – Université Paris–Est, Università degli Studi di Cassino e UNESCO – IHE – Candidate Dott. Ludovico Pontoni, titolo “Accumulation and colloidal mobilization of trace heavy metals in soil irrigated with treated wastewater”.
2016	Member of the Examination Committee of the joint PhD degree in Environmental Technology - Erasmus Joint doctorate programme in Environmental Technology for Contaminated Solids, Soils and Sediments (ETeCoS3) – Université Paris–Est, Università degli Studi di Cassino e UNESCO – IHE – Candidate Dott. Borislava

	Lukić, titolo “Composting of organic waste for enhanced bioremediation of PAHs contaminated soils”.
2014 - 2016	Advisor: n.1 post-doc, Emerging Contaminants in water, University of Catania.
2010 - 2014	Advisor: n.1 Ph.D. student in “Engineering of Hydraulic, Sanitary-environmental and Transportation Infrastructures” Department of Civil and Environmental Engineering, University of Catania – Candidate Famoso D. A., “SVILUPPO DI UN SISTEMA GIS E WEBGIS A SUPPORTO DELLE ATTIVITÀ DI BONIFICA DEL SITO DI INTERESSE NAZIONALE DI BIANCAVILLA”.
2010-2013	Advisor: n.1 Ph.D. student in “Engineering of Hydraulic, Sanitary-environmental and Transportation Infrastructures” Department of Civil and Environmental Engineering, University of Catania. Title assigned awarded as “Doctor International” – Candidate Sgroi M., “FORMATION AND CONTROL OF N-NITROSODIMETHYLAMINE (NDMA) IN WASTEWATER RECLAIMED FOR INDIRECT POTABLE REUSE”.
2005 - Present	Advisor: n.46 Master students in the field of Civil and Environmental Engineering.

TEACHING ACTIVITIES

2007 - Present	Course “Treatment plants of Environmental and Sanitary Engineering”, University of Catania
2012 - 2017	Course “Water Treatment Plants”, University of Catania
2008 - 2010	
2011 - 2012	Course “Environmental and Sanitary Engineering”, University of Catania
2015 – 2017	
2008- 2009	Course “Treatment plants of Environmental and Sanitary Engineering”, University Enna “Kore” jointly with University of Catania

SCIENTIFIC SERVICE

2018 - Present	Editorial Board Member – Data in Brief , Elsevier.
2017 - Present	Editorial Board Member - Current Opinion in Environmental Science & Health , Elsevier.
2018	Editor Special Issue, Wastewater and Reuse, vol. 2, 2018 - Current Opinion in Environmental Science & Health , Elsevier.
2016 - Present	Associate Editor - Journal of Advanced Oxidation Technologies – DE GRUYTER.
2015 - Present	Editorial Board Member - Chemosphere , Elsevier.
2012 - Present	Editorial Board Member - Journal of Environmental Engineering and Landscape Management , Taylor & Francis.
2008 - Present	Reviewer for several journals such as Environmental Science & Technology, Water Research, Chemical Engineering Journal, Desalination, Journal of Hazardous Materials, Water Science and Technology, Water Science and Technology: Water Supply, Science of Total Environment, Journal of Cleaner Production, Ozone: Science & Engineering, Water, Journal of Water Supply: Research and Technology—AQUA, Hydrobiologia, Water Environment Research, Separation and Purification Technology.

INSTITUTIONAL RESPONSIBILITIES

2015 - Present	Member of the Quality Committee of the Department of Civil Engineering and Architecture , University of Catania.
2012 - Present	Responsible for the quality assurance of the Master in Civil Engineering for water and transportation systems.
2009 - Present	Member of the Committee of Ph.D. in Hydraulic, Sanitary, Environmental and Transportation Engineering, Department of Civil and Environmental Engineering, University of Catania.
2009 - 2013, 2015, 2016	Adjunct member to the Committees for the evaluation of civil and environmental engineers to be registered in the Professional Engineering Order .
2008 - Present	Member of several Committees for the graduation of undergraduate and graduate students in Civil and Environmental Engineering.
2012 - Present	Responsible for the Erasmus Studio/Placement Agreement between the University of Catania and the following Institutions: ➤ Institut Català de Recerca de l'Aigua (ICRA) Girona (Spain); ➤ Bogazici University, Istanbul (Turkey); ➤ TUM, Monaco (Germany); ➤ Ghent University (Belgium).

ORGANISATION/SCIENTIFIC SUPPORT OF MEETINGS

2010 - 2019	Member of the Scientific and Organizing Committee of the Workshop "SICON - CONTAMINATED SITES. Experiences in the remediation activities", from 1 st to 7 th Edition, (in Italian).
2015	Member of the Scientific Committee of the 10 th IWA International Conference on Water Reclamation & Reuse, 5-9 July 2015, Harbin, China.
2013	Member of the Scientific Committee of the 9 th IWA International Conference on Water Reclamation & Reuse, 27-31 October 2013, Windhoek, Namibia.
2012	Organization of the Seminar "Air pollution: issues and control systems" Department of Civil and Environmental Engineering, University of Catania, in collaboration with the U.S.-Italy Fulbright Commission, Catania, 8 June 2012 (in Italian).
2011	Member of the Scientific Committee of the 8 th IWA International Conference on Water Reclamation & Reuse, 26-29 September 2011, Barcelona, Spain
2008	Member of the Organizing Committee of the Workshop "Criteria and tools for the valorisation of wastes and the environmental and functional remediation of contaminated sites: the contribution of two National Research Projects", Taormina, October 23-25, 2008 (in Italian).
2006	Organization of the Seminar "Control of drinking water quality: experiences and perspectives" Department of Civil and Environmental Engineering, University of Catania. December 2006 (in Italian).
2006	Member of the Organizing Committee of the Workshop "Novel processes and technologies for wastewater treatment", Taormina, June 15-16, 2006 (in Italian).
2004	Member of the Organizing Committee of the SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, June 23-26, 2004.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2008 - Present	Member of the Association of the Italian Sanitary and Environmental Engineering Professors (GITISA).
2007 - Present	International Water Association (IWA), 2007-present.
2007 - Present	Italian Association of Sanitary and Environmental Engineering (ANDIS), 2007-present.
2007 - Present	American Chemical Society (ACS), 2007-2009, 2014-present.
2002 - Present	Professional Engineers Board of Catania (Italy), September 2002-present.

PUBLICATIONS LIST

Scopus/Web of Science

1. Sgroi, M., Anumol, T., Roccaro, P., Vagliasindi, F.G.A., Snyder, S.A. (2018) Modeling emerging contaminants breakthrough in packed bed adsorption columns by UV absorbance and fluorescing components of dissolved organic matter, *Water Research*, 145, 667-677.
2. Falciglia, P.P., Roccaro, P., Bonanno, L., De Guidi, G., Vagliasindi, F.G.A., Romano, S. (2018) A review on the microwave heating as a sustainable technique for environmental remediation/detoxification applications, *Renewable and Sustainable Energy Reviews*, 95, 147-170.
3. Paolo Roccaro, Paola Verlicchi (2018) Wastewater and reuse, Editorial, *Current Opinion in Environmental Science & Health*, 61-63.
4. Paolo Roccaro, (2018) Treatment processes for municipal wastewater reclamation: The challenges of emerging contaminants and direct potable reuse, *Current Opinion in Environmental Science & Health*, 46-54.
5. Roccaro, P., Vagliasindi, F.G.A. (2018) Indoor release of asbestiform fibers from naturally contaminated water and related health risk, *Chemosphere*, 202, 76-84.
6. Massimiliano Sgroi, Federico G.A. Vagliasindi, Paolo Roccaro (2018) Feasibility, sustainability and circular economy concepts in water reuse, *Current Opinion in Environmental Science & Health*, 20-25.
7. Sgroi, M., Pelissari, C., Roccaro, P., Sezerino, P.H., García, J., Vagliasindi, F.G.A., Ávila, C. (2018) Removal of organic carbon, nitrogen, emerging contaminants and fluorescing organic matter in different constructed wetland configurations, *Chemical Engineering Journal*, 332, 619-627.
8. Sgroi, M., Vagliasindi, F.G.A., Snyder, S.A., Roccaro, P. (2018) N-Nitrosodimethylamine (NDMA) and its precursors in water and wastewater: A review on formation and removal, *Chemosphere*, 191, 685-703.
9. Yan, M., Roccaro, P., Fabbricino, M., Korshin, G.V. (2018). Comparison of the effects of chloramine and chlorine on the aromaticity of dissolved organic matter and yields of disinfection by-products, *Chemosphere*, 191, 477-484.
10. Hosseinzadeh, S., Bonarrigo, G., Verheust, Y., Roccaro, P., Van Hulle, S. (2017). Water reuse in closed hydroponic systems: Comparison of GAC adsorption, ion exchange and ozonation processes to treat recycled nutrient solution, *Aquacultural Engineering*, 78, 190-195.
11. Sgroi, M., Roccaro, P., Korshin, G.V., Vagliasindi, F.G.A. (2017). Monitoring the Behavior of Emerging Contaminants in Wastewater-Impacted Rivers Based on the Use of Fluorescence Excitation Emission Matrixes (EEM), *Environmental Science and Technology*, 51, 4306-4316, DOI: 10.1021/acs.est.6b05785.
12. Ávila, C., Pelissari, C., Sezerino, P.H., Sgroi, M., Roccaro, P., García, J. (2017). Enhancement of total nitrogen removal through effluent recirculation and fate of PPCPs in a hybrid constructed wetland system treating urban wastewater, *Science of the Total Environment*, 584-585, 414-425, DOI: 10.1016/j.scitotenv.2017.01.024.
13. Sgroi, M., Roccaro, P., Korshin, G.V., Greco V., Sciuto S., Anumol T., Snyder, S.A., Vagliasindi, F.G.A. (2017). Use of fluorescence EEM to monitor the removal of emerging contaminants in full scale wastewater treatment plants. *Journal of Hazardous Materials*, 323, 367-376, DOI: 10.1016/j.jhazmat.2016.05.035.

14. Finocchiaro R., Farré M. J., Mamo J., Roccaro P. (2017). On-line monitoring of NDMA precursors in MBR-NF pilot plant by using fluorescence EEM., in *Frontiers in Wastewater Treatment and Modelling*, Mannina G. Ed., Springer, 172-177.
15. Sgroi, M., Ávila, C., Pelissari, C., Sezerino, P.H., Vagliasindi, F.G.A., García, J., Roccaro, P. (2017). Removal of Conventional Water Quality Parameters, Emerging Contaminants and Fluorescing Organic Matter in a Hybrid Constructed Wetland System, in *Frontiers in Wastewater Treatment and Modelling*, Mannina G. Ed., Springer, 313-317.
16. Yan, M., Li, M., Roccaro, P., Korshin, G.V. (2016) Ternary Model of the Speciation of I/Br/Cl-Trihalomethanes Formed in Chloraminated Surface Waters, *Environmental Science and Technology*, 50(8), 4468-4475, DOI: 10.1021/acs.est.5b06369.
17. Sgroi M, Roccaro P, Oelker G, Snyder S A (2016). N-nitrosodimethylamine (NDMA) formation during ozonation of wastewater and water treatment polymers. *CHEMOSPHERE*, 144, 1618-1623.
18. Roccaro, P., Yan, M., Korshin, G.V. (2015) Use of log-transformed absorbance spectra for online monitoring of the reactivity of natural organic matter, *Water Research*. 84, 136-143.
19. Roccaro P., Vagliasindi, F.G.A. and Korshin G.V. (2015). "Bromination and Chlorination of NOM: New Modeling Approaches and Mechanistic Insights", in *Recent Advances in Disinfection By-Products*. Chapter 4. T. Karanfil, B. Mitch, P. Westerhoff, Y. Xie, Eds. ACS Symposium Series, 1190, American Chemical Society. pp 63-77. ISBN13: 9780841230767. DOI: 10.1021/bk-2015-1190.ch004.
20. Anumol, T., Sgroi, M., Park, M., Roccaro, P., Snyder, S.A. (2015). Predicting trace organic compound breakthrough in granular activated carbon using fluorescence and UV absorbance as surrogates. *Water Research*, 76, 76-87.
21. Roccaro, P., Vagliasindi, F.G.A. (2015). Coprecipitation of vanadium with iron(III) in drinking water: a pilot-scale study. *Desalination and Water Treatment*, 55 (3), 799-809, DOI: 10.1080/19443994.2014.942381.
22. Sgroi M., Roccaro P., Oelker G. L. and Snyder S. A. (2015). "NDMA Formation After Coagulation with Ferric Chloride and Decarbonation", in *Disinfection By-products in Drinking Water*. Chapter 6. K Clive Thompson, Simon Gillespie, Emma Goslan Eds. © The Royal Society of Chemistry 2016. pp 59-64. DOI:10.1039/9781782622710-00059.
23. Roccaro P., Vagliasindi F.G.A., Korshin G.V. (2015). "Real Time Monitoring of Disinfection By-Products in Chlorinated Waters by Using Absorbance and Fluorescence Indices", in *Disinfection By-products in Drinking Water*. Chapter 32. K Clive Thompson, Simon Gillespie, Emma Goslan Eds. © The Royal Society of Chemistry 2016. pp 277-284. DOI:10.1039/9781782622710-00277.
24. Roccaro, P., Lombardo, G., Vagliasindi, F.G.A. (2015). Offline bioregeneration of spent activated carbon loaded with real Produced Water and its adsorption capacity for benzene and toluene. *Desalination and Water Treatment*, 55 (3), 756-766. DOI: 10.1080/19443994.2014.964328.
25. Sgroi, M., Roccaro, P., Oelker, G.L., Snyder, S.A. (2015) N-nitrosodimethylamine (NDMA) formation at an indirect potable reuse facility. *Water Research*, 70, pp. 174-183.
26. Roccaro, P., Korshin, G.V., Cook, D., Chow, C.W.K., Drikas, M. (2014). Effects of pH on the speciation coefficients in models of bromide influence on the formation of trihalomethanes and haloacetic acids. *Water Research*, 62, pp. 117-126.
27. Sgroi, M., Roccaro, P., Oelker, G.L., Snyder, S.A. (2014). N -nitrosodimethylamine formation upon ozonation and identification of precursors source in a municipal wastewater treatment plant. *Environmental Science and Technology*, 48 (17), 10308-10315.
28. Roccaro, P., Vagliasindi, F.G.A. (2014). Risk assessment of the use of biosolids containing emerging organic contaminants in agriculture. *Chemical Engineering Transactions*, 37, pp. 817-822.
29. Roccaro, P., Lombardo, G., Vagliasindi, F.G.A. (2014). Optimization of the coagulation process to remove total suspended solids (TSS) from produced water. *Chemical Engineering Transactions*, 39 (Special Issue), 115-120.
30. Sgroi, M., Roccaro, P., Anumol, T., Snyder, S.A., Korshin G. V., Vagliasindi F.G.A. (2014). Occurrence and fate of contaminant of emerging concern in two semi-urbanized catchment basins in Sicily (Italy). *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*, Volume: 248, Meeting Abstract: 219-ENVR, WOS:000349165105646, ISSN: 0065-7727.
31. Roccaro P, Chang H.-s., Vagliasindi F G A, Korshin G V (2014). Formation and speciation of dihaloacetonitriles in chlorinated water: Kinetic and spectroscopic modeling. *ABSTRACTS OF*

- PAPERS OF THE AMERICAN CHEMICAL SOCIETY, Volume: 248, Meeting Abstract: 345-ENVR, WOS:000349165105767, ISSN: 0065-7727.
32. Roccaro, P., Sgroi, M., Anumol, T., Rock, C., Snyder, S.A. (2014). Pilot scale investigation of AOP for the removal of emerging organic contaminants and pathogens. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, Volume: 248, Meeting Abstract: 527-ENVR, WOS:000349165106088, ISSN: 0065-7727.
 33. Roccaro, P., Korshin, G.V., Cook, D., Chow, C.W.K., Drikas, M. (2014). Modeling THM and HAA in chlorinated waters: Effect of pH on the speciation coefficients at varying bromide level and SUVA. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, Volume: 248, Meeting Abstract: 736-ENVR, WOS:000349167400061, ISSN: 0065-7727.
 34. Roccaro, P.; Lombardo, G.; Vagliasindi, F.G.A. (2013). REMOVAL OF HYDROCARBONS FROM HYPERSALINE WATER BY ADSORPTION ON GAC AND OFFLINE BIOREGENERATION OF THE SATURATED CARBON. Book Series: Proceedings of the International Conference on Environmental Science and Technology, Edited by: Lekkas, TD, WOS:000346067900355, ISSN: 1106-5516.
 35. Roccaro, P.; Vagliasindi, F.G.A. (2013). COPRECIPITATION OF VANADIUM IN NATURAL WATER WITH IRON (HYDR)OXIDES. Book Series: Proceedings of the International Conference on Environmental Science and Technology, Edited by: Lekkas, TD, WOS:000346067900356, ISSN: 1106-5516.
 36. Roccaro P., Vagliasindi F.G.A. (2013). Sustainable remediation of a closed solid waste landfill site: Development and application of a holistic approach. Chemical Engineering Transactions, 35, 217 – 222. doi: 10.3303/CET1335036.
 37. Roccaro P, Vagliasindi F G A, Korshin G V (2014). Relationships between trihalomethanes, haloacetic acids, and haloacetonitriles formed by the chlorination of raw, treated, and fractionated surface waters. Journal of Water Supply: Research and Technology. Aqua, 63 (1), 21-30.
 38. Roccaro P, Chang H.-s., Vagliasindi F G A, Korshin G V (2013). Modeling bromide effects on yields and speciation of dihaloacetonitriles formed in chlorinated drinking water. Water Research, vol. 47, p. 5995-6006, ISSN: 0043-1354.
 39. Roccaro P, Sgroi M, Vagliasindi F G A (2013). Removal of Xenobiotic Compounds from Wastewater for Environment Protection: Treatment Processes and Costs. Chemical Engineering Transactions, vol. 32, p. 505-510, ISSN: 1974-9791.
 40. Jones D., Merel S., Roccaro P, Snyder S.A. (2012). Bioassay response to iodinated DBPs. In: ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY Volume: 243, Meeting Abstract: 313-ENVR.
 41. Famoso D, Mangiameli M, Roccaro P, Mussumeci G, Vagliasindi F G A (2012). Asbestiform fibers in the Biancavilla site of national interest (Sicily, Italy): review of environmental data via GIS platforms. REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY, vol. 11, p. 417-427, ISSN: 1569-1705, doi: 10.1007/s11157-012-9284-9.
 42. Roccaro P., Falciglia P.P. and Vagliasindi F.G.A (2011). Effectiveness of water saving devices and educational programs in urban buildings. Water Science and Technology, vol. 63(7); p. 1357–1365, ISSN: 0273-1223, doi:10.2166/wst.2011.190.
 43. Roccaro P., Vagliasindi F.G.A. and Korshin G.V (2011). Quantifying the formation of nitrogen-containing disinfection by-products in chlorinated water using absorbance and fluorescence indexes. Water Science and Technology, vol. 63(1); p. 40-44, ISSN: 0273-1223, doi: 10.2166/wst.2011.006.
 44. Roccaro P., Vagliasindi F.G.A (2010). Monitoring emerging chlorination by-products in drinking water using UV-absorbance and fluorescence indexes. Desalination and Water Treatment, vol. 32 (1-3), p. 118-122, ISSN: 1944-3994, doi: 10.5004.dwt.2010.1970.
 45. Roccaro P. and Vagliasindi F.G.A. (2009). “Differential Versus Absolute UV Absorbance Approaches in Studying NOM Reactivity in DBPs Formation: Comparison and Applicability”. Water Res., 43(3), 744-750.
 46. Roccaro P., Vagliasindi, F.G.A. and Korshin G.V. (2009). “Changes in NOM Fluorescence Caused by Chlorination and their Associations with Disinfection By-Products Formation”. Environ Sci. Technol., 43(3), 724-729.

47. Roccaro P., Chang, H.-S., Vagliasindi, F.G.A. and Korshin G.V. (2008). "Differential absorbance study of effects of temperature on chlorine consumption and formation of disinfection by-products in chlorinated water". *Water Res.*, 42(8-9), 1879-1888.
48. Roccaro P., Vagliasindi, F.G.A. and Korshin G.V. (2008). "Comparison of the performance of spectroscopic indices developed to quantify the halogenation of natural organic matter at varying chlorine concentrations, reaction times and temperatures", in *Occurrence, Formation, Health Effects and Control of Disinfection By-Products in Drinking Water*. Chapter 14. T. Karanfil, S.W. Krasner, P. Westerhoff, Y. Xie, Eds. ACS Symposium Series, American Chemical Society.
49. Mancini G., Barone C., Roccaro P., Vagliasindi F. G. A. (2007). "The beneficial effects of storage on the quality of wastewater for irrigation: a case study in Sicily", *Water Science & Technology*, 55 (1-2), 417-424.
50. Roccaro P., Barone C., Mancini G., Vagliasindi F. G. A. (2007). "Removal of manganese from water supplies intended for human consumption: a case study". *Desalination*, 210, 205-214.
51. Roccaro P., Vagliasindi, F.G.A. and Korshin G.V. (2007). "Probing NOM Reactivity Using Differential Absorbance as an Alternative Surrogate Parameter for DBP Formation in Chlorinated Drinking Water", in *Proceedings of IWA World Water Congress and Exhibition, Vienna, Austria, 7-12th September 2008*.
52. Roccaro P., Vagliasindi, F.G.A. and Korshin G.V. (2007). "Fluorescence of NOM and its use to predict DBP formation", in *Proceedings of 4th IWA Specialist Conference - Natural Organic Matter: from Source to Tap, Bath, UK, 2-4th September 2008*.
53. Roccaro P. and Vagliasindi F. G. A. (2007). "Regulations", in *Control of Disinfection By-Products in Drinking Water Systems*, Nikolau A., Rizzo L. and Selcuk H. Editors, Nova Publishers, ISBN: 1-60021-322-7.
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Prof. Paolo Roccaro

