INFORMAZIONI PERSONALI

Paolo ROCCARO

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FORMAZIONE

2008	**Ph.D. in Ingegneria Civile e Ambientale**, Università di Salerno (Italy).
2002	"**Laurea" (VO 5 anni) in Ingegneria Civile**, Università di Catania (Italy).

POSIZIONI ACCADEMICHE

2018 - Presente	**Professore Ordinario di Ingegneria Sanitaria Ambientale**, Dipartimento di Ingegneria Civile e Architettura, Università di Catania, Italy.
2014 - 2018	Professore Associato di Ingegneria Sanitaria Ambientale, Dipartimento di Ingegneria Civile e Architettura, Università di 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, Università di Catania, Italy.
2007 - 2008	Aggregate Professor, Università di Catania, Department of Civil and Environmental Engineering.
2003 - 2008	Research Associate, Università di Catania, Department of Civil and Environmental Engineering
2005 - 2006	Visiting Scholar, University of Washington, Department of Civil and Environmental Engineering

ATTIVITA' DIDATTICA

2024 - Presente	Insegnamento "Valorizzazione dei rifiuti, emissioni in atmosfera e autorizzazioni ambientali", Università di Catania
2024 - Presente	Insegnamento "Recupero sostenibile e circolare delle acque e dei rifiuti", Università di Catania
2007 - 2024	Insegnamento "Impianti di trattamento Sanitario Ambientale", Università di Catania
2012 - Presente	Insegnamento "Impianti di trattamento delle acque", Università di Catania
2008 - 2010 2011 - 2012 2015 – 2017	Insegnamento "Ingegneria Sanitaria Ambientale", Università di Catania
2008- 2009	Insegnamento "Impianti di trattamento Sanitario Ambientale", Università di Enna "Kore" con Università di Catania

ATTIVITA' CONTO TERZI E CONSULENZE

2024 - Presente	Convenzione conto terzi con il Commissario unico straordinario per la depurazione ed il riuso delle acque reflue relativo all'impianto di depurazione di Augusta.
2023 - Presente	Consulente per ISAB nell'ambito del Procedimento IAS (depurazione reflui).

2022 - 2022	Convenzione conto terzi con ISAB per studio di una contaminazione rilevata in un pozzo.
2017 - 2017	Convenzione conto terzi con Presidio Ospedaliero Garibaldi presso la sede di Nesima - Rilievo e verifica dell'adeguatezza del sistema degli scarichi fognari e depurazione dell'azienda ospedaliera.
2017 - 2017	Consulenza per Fondazione Istituto Giglio per lo studio della qualità degli scarichi fognari del Presidio Ospedaliero Giglio di Cefalù.
2012 - 2013	Convenzione conto terzi con Gestione Governativa Ferrovia Circumetnea (FCE) - Monitoraggio meteoclimatico e redazione dei rapporti mensili di monitoraggio ambientale.
2009 - 2009	Consulenza per Sicilia Acque per studio della formazione di sottoprodotti di disinfezione (trialometani) nelle acque clorate.

PREMI ED INVITI

2023	**Top 2% world's Scientists** based on years 2020 - 2025 by Stanford University, as published by Elsevier".
2023	**Invitato come keynote presenter** at the Joint Congress of the **9th International Water Industry Conference and the 4th WaterEnergyNexus Conference IWIC-WEN 2023, 5-8 December 2023 / EXCO, Daegu, Korea**. Title "Spectroscopic based approach for DBPs control in drinking water".
2023	**Invitato come keynote presenter** in the Division of Environmental Chemistry (ENVR) program at the **ACS Fall 2023 Hybrid Meeting, August 13-17, 2023**. title "Best available treatment technology for PFAS removal from water: Current gaps and research needs".
2021	**Invitato come keynote presenter** in the Division of Environmental Chemistry (ENVR) program at the **ACS Fall 2021 Hybrid Meeting, August 22-26, 2021**. Session "Current Perspectives in Water Reuse & Recycling", title "Treatment processes for wastewater reclamation: The challenges of emerging contaminants and direct potable reuse".
2017	**Invitato al Seminario** "Use of absorbance and fluorescence based surrogates to monitor disinfection/oxidation by-products formation", **University of Ghent,** Ghent, December 14, 2017.
2016	**Awarded under the Erasmus Program** for giving **seminars at the Ghent University**.
2015	**Invitato al Seminar**, "Formation and degradation of NDMA in water reclamation processes" **TUM Technische Universität München**, Monaco, 24 marzo 2015.
2015	**Invitato al Seminario** "FORMATION AND CONTROL OF NDMA DURING ADVANCED TREATMENTS FOR WASTEWATER REUSE, **The Hong Kong University of Science and Technology**, Hong Kong, China, January 15, 2015.
2009 - 2015	Membro del Management Committee of the Specialist Group "Water Reuse" of the **International Water Association (IWA)**.
2010 - 1011	**Vincitore della 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	**Invitato al seminario alla 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, inviato al seminario** 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.

PROGETTI DI RICERCA COORDINATI

2022 - present	**WP Leader - (EU - Horizon Europe) "INNOVATIVE TOOLS TO CONTROL ORGANIC MATTER AND DISINFECTION BYPRODUCTS IN DRINKING WATER – intoDBP".**
2022 - present	**Task Leader - (MUR) "SAMOTHRACE - SiciliAn MicronanOTecH Research And Innovation CEnter" –** Ecosistema dell'innovazione (PNRR, Mission 4, Component 2 Investment 1.5, Avviso n. 3277 del 30.12.-2021)".
2021 - present	**Co-PI - (Funding from The Water Research Foundation, USA**) "Microwave Regeneration of PFAS-Exhausted Granular Activated Carbon".
2021 - present	**PI - (Finanziato dalla Regione Siciliana, PSR)** "Sistemi di coltivazione innovativi – SISCOL".
2021 - present	**PI - (Finanziato dalla Regione Siciliana, PSR)** "Sistemi Intelligenti ed Ecosostenibili per l'Agricoltura Siciliana – SISAG".
2018 - 2020	**PI - (Finanziato dall'Università di Catania)** Advanced processes for the removal of emerging contaminants from water (PACEm).
2018 - 2020	**PI - (Finanziato dal Mistero dell'Ambieentte)** Recupero e utilizzo dellee ceneri vulcaniche etnee – REUCET.
2014 - 2016	**PI - FIR 2014 (c)** 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). **Finanziaiato dal MIUR**.

2012 **PI** – Waste recycling in the production of concrete: evaluation of environmental feasibility, **Finanziato dall'Università di Catania**, Grant for "active researchers",

2012 **PI** – Environmental monitoring during tunnelling works, **finanziato dalla 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.

LISTA PUBBLICAZIONI SELEZIONATE

Scopus/Web of Science

1. Di Bella, A.D., Raissi, M., Santoro, D., Roccaro, P. (2026). Physics-informed neural networks in water and wastewater systems: a critical review. Water Research, 2026, 293, 125449.
2. Mata de la Vega, J.F., Nasr Esfahani, K., Mao, T., Roccaro, P., Cantoni, B. Santoro, D. (2026). Advanced oxidation of tertiary wastewater micropollutants with nearly-zero contact time. Journal of Environmental Chemical Engineering, 2026, 14(1), 120691
3. Shukla, S., Khan, R., Roccaro, P. (2025). Plastic Waste Recycling is Insufficient to Mitigate Plastic Pollution: the Need for a Paradigm Shift, Current Pollution Reports, 2025, 11(1), 62.
4. Khan, R., Shukla, S., Chrzanowski, Ł., Roccaro, P. (2025). Critical evaluation of sustainable biosurfactants on the example of rhamnolipid and sophorolipid production from waste valorization: Challenges, industrial feasibility, and future perspectives. Journal of Environmental Chemical Engineering, 2025, 13(6), 120485.
5. Birben, N.C. Zaker, Y. Faraji, A., Gagliano, E., Falciglia, P.P., Roccaro, P., Karanfil, T. (2025) The effects of granular activated carbon heating rate and moisture content on defluorination of per- and polyfluoroalkyl substances during microwave regeneration, Water Research, 2025, 282, 123618.
6. Shukla, S., Khan, R., Vagliasindi, F.G.A., Korshin, G.V., Roccaro, P. (2025). Effects of microplastics on water disinfection and formation of disinfection by-products. Current Opinion in Environmental Science and Health, 2025, 46, 100632.
7. Fazzino, F., Roccaro, P., Di Bella, A., Gagliano, E., Vagliasindi, F.G.A., Korshin, G.V. (2025). Use of fluorescence for real-time monitoring of contaminants of emerging concern in (waste)water: Perspectives for sensors implementation and process control. Journal of Environmental Chemical Engineering, 2025, 13(2), 115916.
8. Khan, R., Shukla, S., Fazzino, F., D'Anna, C.F., Gagliano, E., Mangiameli, M., Roccaro, P. (2025). Evaluating the utility of multispectral remote sensing for monitoring forage crops: A case study of Sulla Coronaria in the Sicily region, Italy. Remote Sensing Applications Society and Environment, 2025, 38, 101608.
9. Shukla, S., Khan, R., Chrzanowski, Vagliasindi, F.G.A., Roccaro, P. (2025). Advancing sustainable agriculture through multi-omics profiling of biosolids for safe application: A review. Journal of Environmental Management, 2025, 375, 124292.
10. Marino, L., Gagliano, E., Santoro, D., Roccaro, P. (2025). Real-time wastewater quality monitoring by fluorescence sensors: Validation for COD and CEC monitoring and implication for carbon footprint reduction. Science of the Total Environment, 963, 178464.
11. Marino, L., Gagliano, E., Santoro, D., Roccaro, P. (2025). Fluorescence sensor enabled control of contaminants of emerging concern in reclaimed wastewater using ozone-based treatment processes. Water Research, 2025, 268, 122616.
12. Marino, L., Gagliano, E., Santoro, D., Roccaro, P. (2024). Online control of UV and UV/H2O2 processes targeted for the removal of contaminants of emerging concern (CEC) by a fluorescence sensor. Journal of Hazardous Materials, 2024, 480, 136075.

13. Nguyen Tran, H., Bollinger, J.-C., Lima, E.C., Rinklebe, J., Roccaro, P. (2024). Comments on “Bacteria immobilized onto carbon nanofiber as a composite for effective removal of arsenic from wastewater”. Materials Science and Engineering: B, 2024, 309, 117608.
14. Valenti-Quiroga M., Farré M. J., Roccaro P. (2024). Upgrading water treatment trains to comply with the disinfection by-products standards introduced by the Directive (EU) 2020/2184. Current Opinion in Environmental Science & Health 2024, 39:100547. https://doi.org/10.1016/j.coesh.2024.100547.
15. Xiao F., Deng B., Dionysiou D., Karanfil T., O’Shea K., Roccaro P., Xiong. Z.J., Zhao D. Cross-national challenges and strategies for PFAS regulatory compliance in water infrastructure. Nat Water Nature Water, 1, 1004–1015 (2023). https://doi.org/10.1038/s44221-023-00164-8.
16. Gagliano, E., Falciglia, P.P., Zaker, Y., N.C. Birben, Karanfil, T., Roccaro, P. (2023). State of the research on regeneration and reactivation techniques for per- and polyfluoroalkyl substances (PFAS)-laden granular activated carbons (GACs). Current Opinion in Chemical Engineering, 2023, 42, 100955.
17. Kakavandi, B., Zehtab Salmasi, M., Ahmadi, M., Naderi, A., Roccaro, P., Bedia, J., et al. (2023). Spinel cobalt ferrite-based porous activated carbon in conjunction with UV light irradiation for boosting peroxymonosulfate oxidation of bisphenol A. J. Environ. Manag. 342, 118242.
18. Erica Gagliano; Deborah Biondi; Paolo Roccaro (2022). Wastewater-based epidemiology approach: The learning lessons from COVID-19 pandemic and the development of novel guidelines for future pandemics. Chemosphere, DOI: 10.1016/j.chemosphere.2022.137361
19. Falciglia, P.P., Gagliano, E., Scandura, P., Bianco, C., Tosco, T., Sethi, R., Varvaro, G., Agostinelli, E., Bongiorno, C., Russo, A., Romano, S., Malandrino, G., Roccaro, P., Vagliasindi, F.G.A. (2022). Physico-magnetic properties and dynamics of magnetite (Fe3O4) nanoparticles (MNPs) under the effect of permanent magnetic fields in contaminated water treatment applications. Separation and Purification Technology, 2022, 296, 121342
20. Gagliano, E., Sgroi, M., Falciglia, P.P., Belviso, C., Cavalcante, F., Lettino, A., Vagliasindi, F.G.A., Roccaro, P. (2022). Removal of ammonium from wastewater by zeolite synthetized from volcanic ash: Batch and column tests. Journal of Environmental Chemical Engineering, 2022, 10(3), 2, 107539.
21. Gagliano, E., Falciglia, P.P., Zaker, Y., Karanfil, T., Roccaro, P. (2021). Microwave regeneration of granular activated carbon saturated with PFAS. Water Research, 2021, 198, 117121.
22. Belviso, C., Abdolrahimi, M., Peddis, D., ...Giustra, M.G., Cavalcante, F. (2021). Synthesis of zeolite from volcanic ash: Characterization and application for cesium removal. Microporous and Mesoporous Materials, 2021, 319, 111045.
23. Sgroi, M., Anumol, T., Vagliasindi, F.G.A., Snyder, S.A., Roccaro, P. (2021). Comparison of the new Cl_2/O_3/UV process with different ozone- and UV-based AOPs for wastewater treatment at pilot scale: Removal of pharmaceuticals and changes in fluorescing organic matter. Science of the Total Environment, 2021, 765, 142720.
24. Sgroi, M., Snyder, S.A., Roccaro, P. (2021). Comparison of AOPs at pilot scale: Energy costs for micro-pollutants oxidation, disinfection by-products formation and pathogens inactivation, Chemosphere, 243,125292
25. Zhang, C., Roccaro, P., Yan, M., Korshin, G.V. 2021). Interpretation of the formation of unstable halogen-containing disinfection by-products based on the differential absorbance spectroscopy approach. Chemosphere, 2021, 268, 129241
26. Erica Gagliano, Massimiliano Sgroi, Pietro P. Falciglia, Federico G.A. Vagliasindi, Paolo Roccaro (2020). Removal of poly- and perfluoroalkyl substances (PFAS) from water by adsorption: Role of PFAS chain length, effect of organic matter and challenges in adsorbent regeneration. Water Research, Volume 171, 115381. https://doi.org/10.1016/j.watres.2019.115381.
27. Angelakis, A.N., Zaccaria, D., Krasilnikoff, J., (...), Garduno-Jimenez, A., Fereres, E. (2020). Irrigation of world agricultural lands: Evolution through the Millennia, Water (Switzerland), 12(5), 1285.
28. Falciglia, P.P., Lumia, L., Giustra, M.G., (...), Vagliasindi, F.G.A., Di Bella, G. (2020). Remediation of petrol hydrocarbon-contaminated marine sediments by thermal desorption, Chemosphere, 260, 127576.
29. Falciglia, P.P., Malarbì, D., Roccaro, P., Vagliasindi, F.G.A. (2020). Innovative thermal and physico-chemical treatments for the clean-up of marine sediments dredged from the Augusta Bay (Southern Italy). Regional Studies in Marine Science, 2020, 39, 101426.

30. Valipour, M., Krasilnikof, J., Yannopoulos, S., (...), Grismer, M.E., Angelakis, A.N. (2020). The evolution of agricultural drainage from the earliest times to the present, Sustainability (Switzerland), 12(1), 416.
31. Falciglia, P.P., Gagliano, E., Brancato, V., (...), Roccaro, P., Vagliasindi, F.G.A. (2020). Microwave based regenerating permeable reactive barriers (MW-PRBs): Proof of concept and application for Cs removal, Chemosphere, 251, 126582.
32. Sgroi, M., Gagliano, E., Vagliasindi, F.G.A., Roccaro, P. (2020). Absorbance and EEM fluorescence of wastewater: Effects of filters, storage conditions, and chlorination, Chemosphere, 243,125292. https://doi.org/10.1016/j.chemosphere.2019.125292.
33. Sgroi M., Gagliano E., Vagliasindi F.G.A., Roccaro P. (2020). Data on the effects of filters, storage conditions, and chlorination in fluorescence and absorbance wastewater measurements. Data Br. 28, 105099. https://doi.org/10.1016/j.dib.2019.105099.
34. Sgroi, M., Gagliano, E., Vagliasindi, F.G.A., Roccaro, P. (2020). Data on the inner filter effect, suspended solids and nitrate interferences in fluorescence measurements of wastewater organic matter. Data in Brief, 28,104869. https://doi.org/10.1016/j.dib.2019.104869.
35. Sgroi, M., Gagliano, E., Vagliasindi, F.G.A., Roccaro, P. (2020). Inner filter effect, suspended solids and nitrite/nitrate interferences in fluorescence measurements of wastewater organic matter. Science of the Total Environment, 711, 134663. https://doi.org/10.1016/j.scitotenv.2019.134663.
36. Falciglia, P.P., Gagliano, E., Brancato, V., Finocchiaro, G., Catalfo, A., De Guidi, G., Romano, S., Roccaro, P., Vagliasindi, F.G.A. (2020). Field technical applicability and cost analysis for microwave based regenerating permeable reactive barriers (MW-PRBs) operating in Cs-contaminated groundwater treatment. Journal of Environmental Management 260, 110064. https://doi.org/10.1016/j.jenvman.2020.110064.
37. Zhang, C., Chen, B., Korshin, G.V., Kuznetsov, A.M., Roccaro P., Yan, M., Ni, J. (2020). Comparison of the yields of mono-, Di- and tri-chlorinated HAAs and THMs in chlorination and chloramination based on experimental and quantum-chemical data, Water Research, 169,115100.
38. Roccaro, P., Finocchiaro, R., Mamo, J., Farré, M.J. (2020). Monitoring NDMA precursors throughout membrane-based advanced wastewater treatment processes by organic matter fluorescence, Water Research, 175,115682.
39. Hosseinzadeh, S., Testai, D., BKheet, M., De Graeve, J., Roccaro, P., Van Hulle, S. (2019) Degradation of root exudates in closed hydroponic systems using UV/H2O2: Kinetic investigation, reaction pathways and cost analysis, Science of the Total Environment, 687, 479-487.
40. Mangiameli, M., Mussumeci, G., Roccaro, P., Vagliasindi, F.G.A. (2019) Free and open-source GIS technologies for the management of woody biomass, Applied Geomatics, 11(3), 309-315.
41. Gagliano, E., Falciglia, P.P., Brancato, V., Finocchiaro, G., Catalfo, A., De Guidi, G., Romano, S., Roccaro, P., Vagliasindi, F.G.A. (2019) Preliminary investigation on regeneration of simulated radionuclide-contaminated activated carbons by microwave irradiation, Chemical Engineering Transactions, 74, 373-378.
42. 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.
43. 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.
44. Paolo Roccaro, Paola Verlicchi (2018) Wastewater and reuse, Editorial, Current Opinion in Environmental Science & Health, 2:61-63.
45. Paolo Roccaro, (2018) Treatment processes for municipal wastewater reclamation: The challenges of emerging contaminants and direct potable reuse, Current Opinion in Environmental Science & Health, 2:46-54.
46. Roccaro, P., Vagliasindi, F.G.A. (2018) Indoor release of asbestiform fibers from naturally contaminated water and related health risk, Chemosphere, 202, 76-84.
47. Massimiliano Sgroi, Federico G.A. Vagliasindi, Paolo Roccaro (2018) Feasibility, sustainability and circular economy concepts in water reuse, Current Opinion in Environmental Science & Health, 2:20-25.

48. 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.
49. 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
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. 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.
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62. 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.
63. 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.
64. 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.
65. 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.
66. 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.
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Autorizzo il trattamento dei miei dati personali ai fini dell’utilizzo del mio curriculum in base al Decreto Legislativo 30/06/2003 n. 196 e s.m.i. e al Regolamento UE 2016/679 e dichiaro di essere informato sui miei diritti

Catania, 01/09/2026

Prof. Paolo Roccaro