PERSONAL INFORMATION

Paolo ROCCARO

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EDUCATION

2008	**Ph.D. in Civil and Environmental Engineering**, University of Salerno (Italy).
2002	"**Laurea" (5 years degree) in Civil Engineering**, University of Catania (Italy).

POSITIONS HELD AND RELEVANT EXPERIENCE

2018 - Present	**Full Professor of Sanitary & Environmental Engineering, Department of Civil Engineering and Architecture**, University of Catania, Italy.
2014 - 2018	Associate Professor of Sanitary & Environmental Engineering, 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, HONORS, AND INVITED SPEAKER

2021	**Invited as 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	**Invited Seminar** "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	**Invited Seminar** Invited Seminar, "Formation and degradation of NDMA in water reclamation processes" **TUM Technische Universität München**, Monaco, 24 marzo 2015.
2015	**Invited Seminar** "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	Member of the Management Committee of the Specialist Group "Water Reuse" of the **International Water Association (IWA)**.
2010 - 1011	**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

2022 - present	**Co-PI - (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 - (Funding from Regione Siciliana, PSR)** "Sistemi di coltivazione innovativi – SISCOL".
2021 - present	**PI - (Funding from Regione Siciliana, PSR)** "Sistemi Intelligenti ed Ecosostenibili per l'Agricoltura Siciliana – SISAG".
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-DOC MENTORING/EVALUATION

2021 - present	**Advisor: n.2 Ph.D. students in "Evaluation and mitigation of environmental risk" Department of Civil Engineering and Architecture, University of Catania.**
2021 - 2022	**Advisor: n.1 Post-doc in "Water-energy-food nexus: sistemi innovativi per il trattamento e la gestione sostenibile delle acque e dei rifiuti"** Department of Civil Engineering and Architecture, University of Catania – Dr. Gagliano Erica.
2021	**External Evaluator: Doctor (PhD) in n Ingegneria Ambientale ed Idraulica, Sapienza Università di Roma Calabria,** "Biochar as reactive material for heavy metals removal from contaminated water", Candidate Simone Marzeddu.
2021	**External Evaluator: Doctor (PhD) in Scienze della Vita, Università della Calabria,** "DEVELOPMENT AND USE OF INNOVATIVE REAGENT MATERIALS FOR THE REMOVAL OF ORGANIC AND INORGANIC POLLUTANTS FROM NATURAL WATER AND WASTEWATER", Candidate Giulia Maria Curcio.
2021	**External Evaluator: Doctor (PhD) in Materials and structural engineering and nanotechnology, Università del Salento,** "INTEGRATED ADVANCED OXIDATION AND BIOFILTRATION TECHNOLOGIES FOR WASTEWATER REUSE", Candidate Federica Piras.
2021	**Member of the Board of Examiners: Doctor (PhD) in Risk and Sustainability in Civil, Architectural and Environmental engineering systems, Università di Salerno** "TERTIARY TREATMENT OF URBAN WASTEWATER BY ADVANCED OXIDATION PROCESSES", April 2021, Candidate Gulnara Maniakova.
2021	**Member of the Board of Examiners: Doctor (PhD) in RISCHIO E SOSTENIBILITA' NEI SISTEMI DELL'INGEGNERIA CIVILE, EDILE ED AMBIENTALE, Università di Salerno "PROCESSI BIOELETTROCHIMICI A MEMBRANE DINAMICHE AUTOFORMANTI INCAPSULATE PER IL TRATTAMENTO SOSTENIBILE DELLE ACQUE REFLUE", June 2021, Candidate Fabiano Castrogiovanni.**
2017 - 2021	**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.
2020	**Member of the Board of Examiners: Doctor (PhD) in Scienze della Vita, Università della Calabria,** "Sviluppo di un processo integrato per il recupero energetico e di composti valorizzabili da residui organici", Candidate Carlo Limonti.
2020	**Member of the Board of Examiners: Doctor (PhD) in Scienze della Vita, Università della Calabria, "Renewable Energy Driven low cost membrane for water purification and Reclamation", Candidate DEBOLINA MUKHERJEE.**
2020	**Member of the Board of Examiners: Doctor (PhD) in Applied Biological Sciences, Faculty of Bioscience Engineering, Ghent University –** "Assessment of different water treatment techniques to remove root exudates in closed hydroponic systems" **Ghent, March 2020** – Candidate Seyedahmad HOSSEINZADEH.
2019	**Member of the Examination Committee of the joint PhD degree in Environmental Technology -** Erasmus Joint doctorate programme in Environmental Technology – Universitè Paris–Est, Università degli Studi di Cassino e UNESCO – IHE, Tampere University – Candidate Anna Gielnik, titolo "Digestate valorization for bioremediation of total petroleum hydrocarbons contaminated soils".
2019	**External Evaluator: n.1 Ph.D. thesis in Ingegneria per l'Innovazione e lo Sviluppo Sostenibile, Università degli Studi della Basilicata,** "Bonifica di suoli contaminati da

	idrocarburi: trattamenti innovativi di ossidazione avanzata e bioremediation", Candidate Giuseppina Mazzone.
2017	**External Evaluator: Doctor (PhD) in ENVIRONMENTAL AND INFRASTRUCTURE ENGINEERING, Politecnico di Milano,** "OPTIMIZATION OF ACTIVATED CARBON ADSORPTION FOR MICROPOLLUTANT REMOVAL FROM DRINKING WATER", Candidate Andrea Piazzoli.
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,** Candidate Michael Chys.
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) – Universitè Paris–Est, Università degli Studi di Cassino e UNESCO – IHE –** Candidate 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) – Universitè Paris–Est, Università degli Studi di Cassino e UNESCO – IHE –** Candidate Borislava Lukić, titolo "Composting of organic waste for enhanced bioremediation of PAHs contaminated soils"**.**
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 - Present	Course "Water Treatment Plants", University of Catania
2008 - 2010 2011 - 2012 2015 – 2017	Course "Environmental and Sanitary Engineering", University of Catania
2008- 2009	Course "Treatment plants of Environmental and Sanitary Engineering", University Enna "Kore" jointly with University of Catania

SCIENTIFIC SERVICE

2023 - Present	**Associate Editor - Chemosphere**, Elsevier.
2019 - Present	**Associate Editor – Journal of Environmental Management**, Elsevier.
2017 - Present	**Editorial Board - Current Opinion in Environmental Science & Health**, Elsevier.
2017 - Present	**Editorial Board - Heliyon**, Elsevier.
2018 - 2023	**Editorial Board – Data in Brief**, Elsevier.
2018	**Editor Special Issue, Wastewater and Reuse, vol. 2, 2018 - Current Opinion in Environmental Science & Health**, Elsevier.
2012 - 2023	**Editorial Board - 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

2020 - Present	**Chair of the Master Degree in Environmental Engineering** at the Department of Civil Engineering and Architecture, University of Catania.
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.
2016 - 2020	**Member of the Professors-Students Committee of the** Department of Civil Engineering and Architecture, 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 - Present	Member of the Scientific and Organizing Committee of the Workshop "SICON - CONTAMINATED SITES. Experiences in the remediation activities", from 1st to 7th Edition, (in Italian).

2015	Member of the Scientific Committee of the 10th IWA International Conference on Water Reclamation & Reuse, 5-9 July 2015, Harbin, China.
2013	Member of the Scientific Committee of the 9th 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 8th 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. 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.
2. 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.
3. 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.
4. 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.

5. 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.
6. 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. Nature Water, 1, 1004–1015 (2023). https://doi.org/10.1038/s44221-023-00164-8.
7. 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.
8. 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.
9. 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
10. 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
11. Gagliano, E., Falciglia, P.P., Zaker, Y., Karanfil, T., 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.
12. 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.
13. 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.
14. 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.
15. 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
16. 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
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. Paolo Roccaro, Paola Verlicchi (2018) Wastewater and reuse, Editorial, Current Opinion in Environmental Science & Health, 2:61-63.
36. 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.
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Catania, 30/08/2025 Prof. Paolo Roccaro