

Paolo Roccaro

List of Publications by Year in descending order

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57
papers

2,588
citations

201575

27
h-index

189801

50
g-index

59
all docs

59
docs citations

59
times ranked

2558
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Water Research</i> , 2020, 171, 115381.	5.3	479
2	N-Nitrosodimethylamine (NDMA) and its precursors in water and wastewater: A review on formation and removal. <i>Chemosphere</i> , 2018, 191, 685-703.	4.2	144
3	Use of fluorescence EEM to monitor the removal of emerging contaminants in full scale wastewater treatment plants. <i>Journal of Hazardous Materials</i> , 2017, 323, 367-376.	6.5	126
4	Predicting trace organic compound breakthrough in granular activated carbon using fluorescence and UV absorbance as surrogates. <i>Water Research</i> , 2015, 76, 76-87.	5.3	111
5	Removal of organic carbon, nitrogen, emerging contaminants and fluorescing organic matter in different constructed wetland configurations. <i>Chemical Engineering Journal</i> , 2018, 332, 619-627.	6.6	109
6	A review on the microwave heating as a sustainable technique for environmental remediation/detoxification applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 95, 147-170.	8.2	97
7	<i>N</i>-Nitrosodimethylamine Formation upon Ozonation and Identification of Precursors Source in a Municipal Wastewater Treatment Plant. <i>Environmental Science & Technology</i> , 2014, 48, 10308-10315.	4.6	82
8	Differential absorbance study of effects of temperature on chlorine consumption and formation of disinfection by-products in chlorinated water. <i>Water Research</i> , 2008, 42, 1879-1888.	5.3	81
9	Enhancement of total nitrogen removal through effluent recirculation and fate of PPCPs in a hybrid constructed wetland system treating urban wastewater. <i>Science of the Total Environment</i> , 2017, 584-585, 414-425.	3.9	75
10	Monitoring the Behavior of Emerging Contaminants in Wastewater-Impacted Rivers Based on the Use of Fluorescence Excitation Emission Matrixes (EEM). <i>Environmental Science & Technology</i> , 2017, 51, 4306-4316.	4.6	74
11	Differential vs. absolute UV absorbance approaches in studying NOM reactivity in DBPs formation: Comparison and applicability. <i>Water Research</i> , 2009, 43, 744-750.	5.3	73
12	Removal of manganese from water supplies intended for human consumption: a case study. <i>Desalination</i> , 2007, 210, 205-214.	4.0	72
13	Changes in NOM Fluorescence Caused by Chlorination and their Associations with Disinfection by-Products Formation. <i>Environmental Science & Technology</i> , 2009, 43, 724-729.	4.6	70
14	Treatment processes for municipal wastewater reclamation: The challenges of emerging contaminants and direct potable reuse. <i>Current Opinion in Environmental Science and Health</i> , 2018, 2, 46-54.	2.1	66
15	Comparison of AOPs at pilot scale: Energy costs for micro-pollutants oxidation, disinfection by-products formation and pathogens inactivation. <i>Chemosphere</i> , 2021, 273, 128527.	4.2	60
16	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. <i>Science of the Total Environment</i> , 2021, 765, 142720.	3.9	58
17	N-nitrosodimethylamine (NDMA) formation at an indirect potable reuse facility. <i>Water Research</i> , 2015, 70, 174-183.	5.3	57
18	Modeling emerging contaminants breakthrough in packed bed adsorption columns by UV absorbance and fluorescing components of dissolved organic matter. <i>Water Research</i> , 2018, 145, 667-677.	5.3	57

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19	Effects of pH on the speciation coefficients in models of bromide influence on the formation of trihalomethanes and haloacetic acids. <i>Water Research</i> , 2014, 62, 117-126.	5.3	51
20	Irrigation of World Agricultural Lands: Evolution through the Millennia. <i>Water (Switzerland)</i> , 2020, 12, 1285.	1.2	50
21	Use of log-transformed absorbance spectra for online monitoring of the reactivity of natural organic matter. <i>Water Research</i> , 2015, 84, 136-143.	5.3	47
22	Comparison of the effects of chloramine and chlorine on the aromaticity of dissolved organic matter and yields of disinfection by-products. <i>Chemosphere</i> , 2018, 191, 477-484.	4.2	47
23	Modeling bromide effects on yields and speciation of dihaloacetonitriles formed in chlorinated drinking water. <i>Water Research</i> , 2013, 47, 5995-6006.	5.3	36
24	N-nitrosodimethylamine (NDMA) formation during ozonation of wastewater and water treatment polymers. <i>Chemosphere</i> , 2016, 144, 1618-1623.	4.2	36
25	Microwave regeneration of granular activated carbon saturated with PFAS. <i>Water Research</i> , 2021, 198, 117121.	5.3	33
26	The Evolution of Agricultural Drainage from the Earliest Times to the Present. <i>Sustainability</i> , 2020, 12, 416.	1.6	31
27	Water intended for human consumption " Part I: Compliance with European water quality standards. <i>Desalination</i> , 2005, 176, 1-11.	4.0	29
28	Quantifying the formation of nitrogen-containing disinfection by-products in chlorinated water using absorbance and fluorescence indexes. <i>Water Science and Technology</i> , 2011, 63, 40-44.	1.2	28
29	Relationships between trihalomethanes, haloacetic acids, and haloacetonitriles formed by the chlorination of raw, treated, and fractionated surface waters. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2014, 63, 21-30.	0.6	21
30	Inner filter effect, suspended solids and nitrite/nitrate interferences in fluorescence measurements of wastewater organic matter. <i>Science of the Total Environment</i> , 2020, 711, 134663.	3.9	21
31	Effectiveness of water saving devices and educational programs in urban buildings. <i>Water Science and Technology</i> , 2011, 63, 1357-1365.	1.2	20
32	Coprecipitation of vanadium with iron(III) in drinking water: a pilot-scale study. <i>Desalination and Water Treatment</i> , 2015, 55, 799-809.	1.0	18
33	Water reuse in closed hydroponic systems: Comparison of GAC adsorption, ion exchange and ozonation processes to treat recycled nutrient solution. <i>Aquacultural Engineering</i> , 2017, 78, 190-195.	1.4	18
34	Absorbance and EEM fluorescence of wastewater: Effects of filters, storage conditions, and chlorination. <i>Chemosphere</i> , 2020, 243, 125292.	4.2	18
35	Comparison of the yields of mono-, Di- and tri-chlorinated HAAs and THMs in chlorination and chloramination based on experimental and quantum-chemical data. <i>Water Research</i> , 2020, 169, 115100.	5.3	17
36	Monitoring emerging chlorination by-products in drinking water using UV-absorbance and fluorescence indexes. <i>Desalination and Water Treatment</i> , 2010, 23, 118-122.	1.0	16

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37	Remediation of petrol hydrocarbon-contaminated marine sediments by thermal desorption. <i>Chemosphere</i> , 2020, 260, 127576.	4.2	16
38	Ternary Model of the Speciation of I-/Br-/Cl-Trihalomethanes Formed in Chloraminated Surface Waters. <i>Environmental Science & Technology</i> , 2016, 50, 4468-4475.	4.6	12
39	Wastewater and reuse. <i>Current Opinion in Environmental Science and Health</i> , 2018, 2, 61-63.	2.1	12
40	Indoor release of asbestiform fibers from naturally contaminated water and related health risk. <i>Chemosphere</i> , 2018, 202, 76-84.	4.2	12
41	Monitoring NDMA precursors throughout membrane-based advanced wastewater treatment processes by organic matter fluorescence. <i>Water Research</i> , 2020, 175, 115682.	5.3	11
42	Asbestiform fibers in the Biancavilla site of national interest (Sicily, Italy): review of environmental data via GIS platforms. <i>Reviews in Environmental Science and Biotechnology</i> , 2012, 11, 417-427.	3.9	10
43	Degradation of root exudates in closed hydroponic systems using UV/H ₂ O ₂ : Kinetic investigation, reaction pathways and cost analysis. <i>Science of the Total Environment</i> , 2019, 687, 479-487.	3.9	10
44	Microwave based regenerating permeable reactive barriers (MW-PRBs): Proof of concept and application for Cs removal. <i>Chemosphere</i> , 2020, 251, 126582.	4.2	9
45	The beneficial effects of storage on the quality of wastewater for irrigation: a case study in Sicily. <i>Water Science and Technology</i> , 2007, 55, 417-424.	1.2	8
46	Offline bioregeneration of spent activated carbon loaded with real Produced Water and its adsorption capacity for benzene and toluene. <i>Desalination and Water Treatment</i> , 2015, 55, 756-766.	1.0	8
47	Water intended for human consumption " Part II: Treatment alternatives, monitoring issues and resulting costs. <i>Desalination</i> , 2005, 176, 143-153.	4.0	7
48	Field technical applicability and cost analysis for microwave based regenerating permeable reactive barriers (MW-PRBs) operating in Cs-contaminated groundwater treatment. <i>Journal of Environmental Management</i> , 2020, 260, 110064.	3.8	7
49	Free and open-source GIS technologies for the management of woody biomass. <i>Applied Geomatics</i> , 2019, 11, 309-315.	1.2	5
50	Comparison of the Performance of Spectroscopic Indices Developed to Quantify the Halogenation of Natural Organic Matter at Varying Chlorine Concentrations, Reaction Times and Temperatures. <i>ACS Symposium Series</i> , 2008, , 198-212.	0.5	4
51	Innovative thermal and physico-chemical treatments for the clean-up of marine sediments dredged from the Augusta Bay (Southern Italy). <i>Regional Studies in Marine Science</i> , 2020, 39, 101426.	0.4	3
52	Membrane bioreactors for wastewater reclamation: Cost analysis. , 2020, , 311-322.		3
53	Interpretation of the formation of unstable halogen-containing disinfection by-products based on the differential absorbance spectroscopy approach. <i>Chemosphere</i> , 2021, 268, 129241.	4.2	3
54	Data on the inner filter effect, suspended solids and nitrate interferences in fluorescence measurements of wastewater organic matter. <i>Data in Brief</i> , 2020, 28, 104869.	0.5	2

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55	Data on the effects of filters, storage conditions, and chlorination in fluorescence and absorbance wastewater measurements. <i>Data in Brief</i> , 2020, 28, 105099.	0.5	2
56	Bromination and Chlorination of NOM: New Modeling Approaches and Mechanistic Insights. <i>ACS Symposium Series</i> , 2015, , 63-77.	0.5	1
57	Criteria for marginal water treatment and reuse under drought conditions. , 2005, , 19-47.		1