Fernando L Rosario-Ortiz

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Evaluation of UV/H2O2 treatment for the oxidation of pharmaceuticals in wastewater. Water Research, 2010, 44, 1440-1448.	11.3	245
2	Formation of oxidation byproducts from ozonation of wastewater. Water Research, 2007, 41, 1481-1490.	11.3	243
3	Singlet Oxygen Formation from Wastewater Organic Matter. Environmental Science & Technology, 2013, 47, 8179-8186.	10.0	238
4	Effect of ozone exposure on the oxidation of trace organic contaminants in wastewater. Water Research, 2009, 43, 1005-1014.	11.3	228
5	Probe Compounds to Assess the Photochemical Activity of Dissolved Organic Matter. Environmental Science & Technology, 2016, 50, 12532-12547.	10.0	214
6	Photochemical Formation of Hydroxyl Radical from Effluent Organic Matter. Environmental Science & Technology, 2012, 46, 3788-3794.	10.0	165
7	Critical analysis of commonly used fluorescence metrics to characterize dissolved organic matter. Water Research, 2014, 49, 327-338.	11.3	123
8	Using Ultraviolet Absorbance and Color To Assess Pharmaceutical Oxidation during Ozonation of Wastewater. Environmental Science & Technology, 2009, 43, 4858-4863.	10.0	118
9	Reactivity of Effluent Organic Matter (EfOM) with Hydroxyl Radical as a Function of Molecular Weight. Environmental Science & Technology, 2010, 44, 5714-5720.	10.0	118
10	Effect of oxidant exposure on the release of intracellular microcystin, MIB, and geosmin from three cyanobacteria species. Water Research, 2014, 52, 251-259.	11.3	118
11	How do you like your tap water?. Science, 2016, 351, 912-914.	12.6	115
12	Photochemical Formation of Hydroxyl Radical from Effluent Organic Matter: Role of Composition. Environmental Science & Technology, 2013, 47, 12073-12080.	10.0	114
13	Multiple Roles of Dissolved Organic Matter in Advanced Oxidation Processes. Environmental Science & Technology, 2022, 56, 11111-11131.	10.0	112
14	Intracellular Organic Matter from Cyanobacteria as a Precursor for Carbonaceous and Nitrogenous Disinfection Byproducts. Environmental Science & Technology, 2013, 47, 6332-6340.	10.0	111
15	Identifying the factors that influence the reactivity of effluent organic matter with hydroxyl radicals. Water Research, 2014, 50, 408-419.	11.3	111
16	Investigation of the Coupled Effects of Molecular Weight and Charge-Transfer Interactions on the Optical and Photochemical Properties of Dissolved Organic Matter. Environmental Science & Technology, 2016, 50, 8093-8102.	10.0	97
17	Wildfires Alter Forest Watersheds and Threaten Drinking Water Quality. Accounts of Chemical Research, 2019, 52, 1234-1244.	15.6	97
18	Characterization of dissolved organic matter in drinking water sources impacted by multiple tributaries. Water Research. 2007. 41. 4115-4128.	11.3	95

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19	Predicting Reactive Intermediate Quantum Yields from Dissolved Organic Matter Photolysis Using Optical Properties and Antioxidant Capacity. Environmental Science & Technology, 2017, 51, 5404-5413.	10.0	91
20	Some issues limiting photo(cata)lysis application in water pollutant control: A critical review from chemistry perspectives. Water Research, 2020, 174, 115605.	11.3	91
21	Quantitative Correlation of Absolute Hydroxyl Radical Rate Constants with Non-Isolated Effluent Organic Matter Bulk Properties in Water. Environmental Science & Technology, 2008, 42, 5924-5930.	10.0	88
22	Using digital flow cytometry to assess the degradation of three cyanobacteria species after oxidation processes. Water Research, 2013, 47, 3752-3761.	11.3	78
23	Temperature Dependence of the Photochemical Formation of Hydroxyl Radical from Dissolved Organic Matter. Environmental Science & Technology, 2015, 49, 4147-4154.	10.0	77
24	Impact of Halides on the Photoproduction of Reactive Intermediates from Organic Matter. Environmental Science & Technology, 2013, 47, 13949-13956.	10.0	76
25	Temperature Dependence of the Reaction between the Hydroxyl Radical and Organic Matter. Environmental Science & Technology, 2011, 45, 6932-6937.	10.0	73
26	Drinking water treatment response following a Colorado wildfire. Water Research, 2016, 105, 187-198.	11.3	69
27	Ozone and chlorine reactions with dissolved organic matter - Assessment of oxidant-reactive moieties by optical measurements and the electron donating capacities. Water Research, 2018, 144, 64-75.	11.3	67
28	In-stream sources and links between particulate and dissolved black carbon following a wildfire. Biogeochemistry, 2015, 124, 145-161.	3.5	66
29	Photochemical degradation of atenolol, carbamazepine, meprobamate, phenytoin and primidone in wastewater effluents. Journal of Hazardous Materials, 2015, 282, 216-223.	12.4	64
30	Evaluating fluorescence spectroscopy as a tool to characterize cyanobacteria intracellular organic matter upon simulated release and oxidation in natural water. Water Research, 2015, 68, 432-443.	11.3	62
31	The Case Against Charge Transfer Interactions in Dissolved Organic Matter Photophysics. Environmental Science & Technology, 2018, 52, 406-414.	10.0	60
32	Water treatment implications after the High Park Wildfire, Colorado. Journal - American Water Works Association, 2014, 106, E189.	0.3	58
33	Evaluation of enhanced coagulation pretreatment to improve ozone oxidation efficiency in wastewater. Water Research, 2011, 45, 5191-5199.	11.3	52
34	Oversimplification of Dissolved Organic Matter Fluorescence Analysis: Potential Pitfalls of Current Methods. Environmental Science & Technology, 2017, 51, 759-761.	10.0	51
35	Characterization of the Polarity of Natural Organic Matter under Ambient Conditions by the Polarity Rapid Assessment Method (PRAM). Environmental Science & Technology, 2007, 41, 4895-4900.	10.0	46
36	Quantum Yields for the Formation of Reactive Intermediates from Dissolved Organic Matter Samples from the Suwannee River. Environmental Engineering Science, 2015, 32, 31-37.	1.6	45

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37	Molecular and Spectroscopic Characterization of Water Extractable Organic Matter from Thermally Altered Soils Reveal Insight into Disinfection Byproduct Precursors. Environmental Science & Technology, 2017, 51, 771-779.	10.0	42
38	Effects of Ozone on the Photochemical and Photophysical Properties of Dissolved Organic Matter. Environmental Science & Technology, 2019, 53, 5622-5632.	10.0	41
39	Photolysis and photocatalysis of haloacetic acids in water: A review of kinetics, influencing factors, products, pathways, and mechanisms. Journal of Hazardous Materials, 2020, 391, 122143.	12.4	39
40	Enhanced DOC removal using anion and cation ion exchange resins. Water Research, 2016, 88, 981-989.	11.3	36
41	Low levels of iron enhance UV/H2O2 efficiency at neutral pH. Water Research, 2018, 130, 234-242.	11.3	36
42	Examining the Role of Effluent Organic Matter Components on the Decomposition of Ozone and Formation of Hydroxyl Radicals in Wastewater. Ozone: Science and Engineering, 2012, 34, 42-48.	2.5	34
43	Modeling Nonequilibrium Adsorption of MIB and Sulfamethoxazole by Powdered Activated Carbon and the Role of Dissolved Organic Matter Competition. Environmental Science & Technology, 2014, 48, 13735-13742.	10.0	33
44	Photodegradation of cyanotoxins in surface waters. Water Research, 2021, 192, 116804.	11.3	31
45	Analysis of formaldehyde formation in wastewater using on-fiber derivatization–solid-phase microextraction–gas chromatography–mass spectrometry. Journal of Chromatography A, 2008, 1210, 25-29.	3.7	25
46	Effect of Ozonation on Trihalomethane and Haloacetic Acid Formation and Speciation in a Full-Scale Distribution System. Ozone: Science and Engineering, 2011, 33, 14-22.	2.5	25
47	Characterization of fulvic acids by liquid chromatography-quadrupole time-of-flight mass spectrometry. Journal of Chromatography A, 2009, 1216, 1319-1324.	3.7	24
48	Emerging investigators series: a critical review of decision support systems for water treatment: making the case for incorporating climate change and climate extremes. Environmental Science: Water Research and Technology, 2017, 3, 18-36.	2.4	24
49	Water treatment process evaluation of wildfire-affected sediment leachates. Environmental Science: Water Research and Technology, 2017, 3, 352-365.	2.4	23
50	Analysis of p-chlorobenzoic acid in water by liquid chromatography–tandem mass spectrometry. Journal of Chromatography A, 2007, 1164, 219-223.	3.7	22
51	Temperature Dependence of Dissolved Organic Matter Fluorescence. Environmental Science & Technology, 2018, 52, 9022-9032.	10.0	22
52	Computational Assessment of the Three-Dimensional Configuration of Dissolved Organic Matter Chromophores and Influence on Absorption Spectra. Environmental Science & Technology, 2020, 54, 15904-15913.	10.0	22
53	Wildfires: Identification of a new suite of aromatic polycarboxylic acids in ash and surface water. Science of the Total Environment, 2021, 770, 144661.	8.0	22
54	Photochemical Fate of Amicarbazone in Aqueous Media: Laboratory Measurement and Simulations. Environmental Engineering Science, 2015, 32, 730-740.	1.6	21

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55	Evaluation of optical surrogates for the characterization of DOM removal by coagulation. Environmental Science: Water Research and Technology, 2015, 1, 493-506.	2.4	20
56	Nitrogen Enrichment during Soil Organic Matter Burning and Molecular Evidence of Maillard Reactions. Environmental Science & Technology, 2022, 56, 4597-4609.	10.0	20
57	Kinetics of the reaction between the hydroxyl radical and organic matter standards from the International Humic Substance Society. Journal of Soils and Sediments, 2014, 14, 298-304.	3.0	19
58	Molecular Transformation of Crude Oil Contaminated Soil after Bioelectrochemical Degradation Revealed by FT-ICR Mass Spectrometry. Environmental Science & Technology, 2020, 54, 2500-2509.	10.0	19
59	Molecular Identification of Water-Extractable Organic Carbon from Thermally Heated Soils: C-13 NMR and Accurate Mass Analyses Find Benzene and Pyridine Carboxylic Acids. Environmental Science & Technology, 2020, 54, 2994-3001.	10.0	19
60	Advancing Critical Applications of High Resolution Mass Spectrometry for DOM Assessments: Re-Engaging with Mass Spectral Principles, Limitations, and Data Analysis. Environmental Science & Technology, 2020, 54, 11654-11656.	10.0	18
61	Real-Time Detection and Identification of Aqueous Chlorine Transformation Products Using QTOF MS. Analytical Chemistry, 2008, 80, 4193-4199.	6.5	17
62	Relation between Optical Properties and Formation of Reactive Intermediates from Different Size Fractions of Organic Matter. ACS Symposium Series, 2014, , 159-179.	0.5	17
63	Computational Calculation of Dissolved Organic Matter Absorption Spectra. Environmental Science & Technology, 2022, 56, 491-500.	10.0	16
64	Methodology for selection of optical parameters as wastewater effluent organic matter surrogates. Water Research, 2020, 170, 115321.	11.3	15
65	Characterizing Limits of Precision for Dissolved Organic Nitrogen Calculations. Environmental Science and Technology Letters, 2017, 4, 452-456.	8.7	14
66	Photochemical Aging of Atmospheric Particulate Matter in the Aqueous Phase. Environmental Science & Technology, 2021, 55, 13152-13163.	10.0	14
67	Photochemical degradation of Corexit components in ocean water. Chemosphere, 2014, 111, 596-602.	8.2	13
68	Optical properties and photochemical production of hydroxyl radical and singlet oxygen after ozonation of dissolved organic matter. Environmental Science: Water Research and Technology, 2021, 7, 346-356.	2.4	13
69	Foreseen Effects of Climate-Impacted Scenarios on the Photochemical Fate of Selected Cyanotoxins in Surface Freshwaters. Environmental Science & Technology, 2021, 55, 10928-10934.	10.0	13
70	Spectral evaluation of watershed DOM and DBP precursors. Journal - American Water Works Association, 2013, 105, E173.	0.3	12
71	Photochemical fate of solvent constituents ofÂCorexit oil dispersants. Water Research, 2014, 52, 101-111.	11.3	12
72	Characterization and spatial distribution of particulate and soluble carbon and nitrogen from wildfire-impacted sediments. Journal of Soils and Sediments, 2018, 18, 1314-1326.	3.0	12

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73	Preparing for Wildfires and Extreme Weather: Plant Design and Operation Recommendations. Journal - American Water Works Association, 2018, 110, 32-40.	0.3	11
74	Impact of Light Screening and Photosensitization by Surface Water Organic Matter onEnterococcus FaecalisInactivation. Environmental Engineering Science, 2016, 33, 365-373.	1.6	10
75	Photochemical generation of reactive intermediates from urban-waste bio-organic substances under UV and solar irradiation. Environmental Science and Pollution Research, 2017, 24, 18470-18478.	5.3	10
76	Determination of COREXIT components used in the Deepwater Horizon cleanup by liquid chromatography-ion trap mass spectrometry. Analytical Methods, 2014, 6, 5498-5502.	2.7	8
77	Regulating Chlorophyll a to Control DBP Precursors in Water Supply Reservoirs. Journal - American Water Works Association, 2015, 107, E603.	0.3	8
78	Iron Speciation in PM 2.5 From Urban, Agriculture, and Mixed Environments in Colorado, USA. Earth and Space Science, 2020, 7, e2020EA001262.	2.6	8
79	Use of optical properties for evaluating the presence of pyrogenic organic matter in thermally altered soil leachates. Environmental Sciences: Processes and Impacts, 2020, 22, 981-992.	3.5	7
80	Laboratory simulation of postfire effects on conventional drinking water treatment and disinfection byproduct formation. AWWA Water Science, 2019, 1, e1155.	2.1	6
81	Advances in the characterization of the polarity of DOM under ambient water quality conditions using the polarity rapid assessment method. Water Science and Technology: Water Supply, 2008, 8, 725-733.	2.1	4
82	Application of a novel polarity method for the characterization of natural organic matter during water treatment. Journal of Water Supply: Research and Technology - AQUA, 2009, 58, 159-169.	1.4	4
83	Comparison of two polarity measurements of hydrophobic organic matter for the evaluation of water treatment processes: XAD resin and PRAM. Water Science and Technology, 2012, 66, 2418-2424.	2.5	4
84	Assessing the source of the photochemical formation of hydroxylating species from dissolved organic matter using model sensitizers. Environmental Sciences: Processes and Impacts, 2022, 24, 102-115.	3.5	4
85	Multi-objective optimization of water treatment operations for disinfection byproduct control. Environmental Science: Water Research and Technology, 2020, 6, 702-714.	2.4	3
86	Impact of simulated wildfire on disinfection byproduct formation potential. AWWA Water Science, 2021, 3, .	2.1	3
87	Preface—special issue in memory of Frank J. Stevenson. Journal of Soils and Sediments, 2018, 18, 1209-1211.	3.0	2
88	A Tribute to George R. Aiken. Environmental Science & amp; Technology, 2018, 52, 4489-4489.	10.0	1
89	Hearing All Voices to Address Environmental Challenges at a Global Scale. Environmental Science & Technology, 0, , .	10.0	1