

Fernando L Rosario-Ortiz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3981462/publications.pdf>

Version: 2024-02-01

89
papers

4,792
citations

87723

38
h-index

98622

67
g-index

92
all docs

92
docs citations

92
times ranked

4028
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Assessing the source of the photochemical formation of hydroxylating species from dissolved organic matter using model sensitizers. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 102-115. | 1.7 | 4 |
| 2 | Nitrogen Enrichment during Soil Organic Matter Burning and Molecular Evidence of Maillard Reactions. <i>Environmental Science & Technology</i> , 2022, 56, 4597-4609. | 4.6 | 20 |
| 3 | Computational Calculation of Dissolved Organic Matter Absorption Spectra. <i>Environmental Science & Technology</i> , 2022, 56, 491-500. | 4.6 | 16 |
| 4 | Multiple Roles of Dissolved Organic Matter in Advanced Oxidation Processes. <i>Environmental Science & Technology</i> , 2022, 56, 11111-11131. | 4.6 | 112 |
| 5 | Optical properties and photochemical production of hydroxyl radical and singlet oxygen after ozonation of dissolved organic matter. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 346-356. | 1.2 | 13 |
| 6 | Impact of simulated wildfire on disinfection byproduct formation potential. <i>AWWA Water Science</i> , 2021, 3, . | 1.0 | 3 |
| 7 | Photodegradation of cyanotoxins in surface waters. <i>Water Research</i> , 2021, 192, 116804. | 5.3 | 31 |
| 8 | Wildfires: Identification of a new suite of aromatic polycarboxylic acids in ash and surface water. <i>Science of the Total Environment</i> , 2021, 770, 144661. | 3.9 | 22 |
| 9 | Foreseen Effects of Climate-Impacted Scenarios on the Photochemical Fate of Selected Cyanotoxins in Surface Freshwaters. <i>Environmental Science & Technology</i> , 2021, 55, 10928-10934. | 4.6 | 13 |
| 10 | Photochemical Aging of Atmospheric Particulate Matter in the Aqueous Phase. <i>Environmental Science & Technology</i> , 2021, 55, 13152-13163. | 4.6 | 14 |
| 11 | Multi-objective optimization of water treatment operations for disinfection byproduct control. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 702-714. | 1.2 | 3 |
| 12 | Methodology for selection of optical parameters as wastewater effluent organic matter surrogates. <i>Water Research</i> , 2020, 170, 115321. | 5.3 | 15 |
| 13 | Advancing Critical Applications of High Resolution Mass Spectrometry for DOM Assessments: Re-Engaging with Mass Spectral Principles, Limitations, and Data Analysis. <i>Environmental Science & Technology</i> , 2020, 54, 11654-11656. | 4.6 | 18 |
| 14 | Computational Assessment of the Three-Dimensional Configuration of Dissolved Organic Matter Chromophores and Influence on Absorption Spectra. <i>Environmental Science & Technology</i> , 2020, 54, 15904-15913. | 4.6 | 22 |
| 15 | Iron Speciation in PM 2.5 From Urban, Agriculture, and Mixed Environments in Colorado, USA. <i>Earth and Space Science</i> , 2020, 7, e2020EA001262. | 1.1 | 8 |
| 16 | Some issues limiting photo(cata)lysis application in water pollutant control: A critical review from chemistry perspectives. <i>Water Research</i> , 2020, 174, 115605. | 5.3 | 91 |
| 17 | Use of optical properties for evaluating the presence of pyrogenic organic matter in thermally altered soil leachates. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 981-992. | 1.7 | 7 |
| 18 | Molecular Transformation of Crude Oil Contaminated Soil after Bioelectrochemical Degradation Revealed by FT-ICR Mass Spectrometry. <i>Environmental Science & Technology</i> , 2020, 54, 2500-2509. | 4.6 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Molecular Identification of Water-Extractable Organic Carbon from Thermally Heated Soils: C-13 NMR and Accurate Mass Analyses Find Benzene and Pyridine Carboxylic Acids. <i>Environmental Science & Technology</i> , 2020, 54, 2994-3001. | 4.6 | 19 |
| 20 | Photolysis and photocatalysis of haloacetic acids in water: A review of kinetics, influencing factors, products, pathways, and mechanisms. <i>Journal of Hazardous Materials</i> , 2020, 391, 122143. | 6.5 | 39 |
| 21 | Laboratory simulation of postfire effects on conventional drinking water treatment and disinfection byproduct formation. <i>AWWA Water Science</i> , 2019, 1, e1155. | 1.0 | 6 |
| 22 | Wildfires Alter Forest Watersheds and Threaten Drinking Water Quality. <i>Accounts of Chemical Research</i> , 2019, 52, 1234-1244. | 7.6 | 97 |
| 23 | Effects of Ozone on the Photochemical and Photophysical Properties of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2019, 53, 5622-5632. | 4.6 | 41 |
| 24 | Preface "special issue in memory of Frank J. Stevenson. <i>Journal of Soils and Sediments</i> , 2018, 18, 1209-1211. | 1.5 | 2 |
| 25 | A Tribute to George R. Aiken. <i>Environmental Science & Technology</i> , 2018, 52, 4489-4489. | 4.6 | 1 |
| 26 | Characterization and spatial distribution of particulate and soluble carbon and nitrogen from wildfire-impacted sediments. <i>Journal of Soils and Sediments</i> , 2018, 18, 1314-1326. | 1.5 | 12 |
| 27 | The Case Against Charge Transfer Interactions in Dissolved Organic Matter Photophysics. <i>Environmental Science & Technology</i> , 2018, 52, 406-414. | 4.6 | 60 |
| 28 | Low levels of iron enhance UV/H ₂ O ₂ efficiency at neutral pH. <i>Water Research</i> , 2018, 130, 234-242. | 5.3 | 36 |
| 29 | Ozone and chlorine reactions with dissolved organic matter - Assessment of oxidant-reactive moieties by optical measurements and the electron donating capacities. <i>Water Research</i> , 2018, 144, 64-75. | 5.3 | 67 |
| 30 | Preparing for Wildfires and Extreme Weather: Plant Design and Operation Recommendations. <i>Journal - American Water Works Association</i> , 2018, 110, 32-40. | 0.2 | 11 |
| 31 | Temperature Dependence of Dissolved Organic Matter Fluorescence. <i>Environmental Science & Technology</i> , 2018, 52, 9022-9032. | 4.6 | 22 |
| 32 | Water treatment process evaluation of wildfire-affected sediment leachates. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 352-365. | 1.2 | 23 |
| 33 | Predicting Reactive Intermediate Quantum Yields from Dissolved Organic Matter Photolysis Using Optical Properties and Antioxidant Capacity. <i>Environmental Science & Technology</i> , 2017, 51, 5404-5413. | 4.6 | 91 |
| 34 | Oversimplification of Dissolved Organic Matter Fluorescence Analysis: Potential Pitfalls of Current Methods. <i>Environmental Science & Technology</i> , 2017, 51, 759-761. | 4.6 | 51 |
| 35 | Molecular and Spectroscopic Characterization of Water Extractable Organic Matter from Thermally Altered Soils Reveal Insight into Disinfection Byproduct Precursors. <i>Environmental Science & Technology</i> , 2017, 51, 771-779. | 4.6 | 42 |
| 36 | Characterizing Limits of Precision for Dissolved Organic Nitrogen Calculations. <i>Environmental Science and Technology Letters</i> , 2017, 4, 452-456. | 3.9 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Photochemical generation of reactive intermediates from urban-waste bio-organic substances under UV and solar irradiation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18470-18478. | 2.7 | 10 |
| 38 | Emerging investigators series: a critical review of decision support systems for water treatment: making the case for incorporating climate change and climate extremes. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 18-36. | 1.2 | 24 |
| 39 | Impact of Light Screening and Photosensitization by Surface Water Organic Matter on <i>Enterococcus Faecalis</i> Inactivation. <i>Environmental Engineering Science</i> , 2016, 33, 365-373. | 0.8 | 10 |
| 40 | Investigation of the Coupled Effects of Molecular Weight and Charge-Transfer Interactions on the Optical and Photochemical Properties of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2016, 50, 8093-8102. | 4.6 | 97 |
| 41 | Drinking water treatment response following a Colorado wildfire. <i>Water Research</i> , 2016, 105, 187-198. | 5.3 | 69 |
| 42 | Probe Compounds to Assess the Photochemical Activity of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2016, 50, 12532-12547. | 4.6 | 214 |
| 43 | Enhanced DOC removal using anion and cation ion exchange resins. <i>Water Research</i> , 2016, 88, 981-989. | 5.3 | 36 |
| 44 | How do you like your tap water?. <i>Science</i> , 2016, 351, 912-914. | 6.0 | 115 |
| 45 | Regulating Chlorophyll a to Control DBP Precursors in Water Supply Reservoirs. <i>Journal - American Water Works Association</i> , 2015, 107, E603. | 0.2 | 8 |
| 46 | Evaluation of optical surrogates for the characterization of DOM removal by coagulation. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 493-506. | 1.2 | 20 |
| 47 | Quantum Yields for the Formation of Reactive Intermediates from Dissolved Organic Matter Samples from the Suwannee River. <i>Environmental Engineering Science</i> , 2015, 32, 31-37. | 0.8 | 45 |
| 48 | Temperature Dependence of the Photochemical Formation of Hydroxyl Radical from Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2015, 49, 4147-4154. | 4.6 | 77 |
| 49 | In-stream sources and links between particulate and dissolved black carbon following a wildfire. <i>Biogeochemistry</i> , 2015, 124, 145-161. | 1.7 | 66 |
| 50 | Photochemical Fate of Amicarbazone in Aqueous Media: Laboratory Measurement and Simulations. <i>Environmental Engineering Science</i> , 2015, 32, 730-740. | 0.8 | 21 |
| 51 | Evaluating fluorescence spectroscopy as a tool to characterize cyanobacteria intracellular organic matter upon simulated release and oxidation in natural water. <i>Water Research</i> , 2015, 68, 432-443. | 5.3 | 62 |
| 52 | Photochemical degradation of atenolol, carbamazepine, meprobamate, phenytoin and primidone in wastewater effluents. <i>Journal of Hazardous Materials</i> , 2015, 282, 216-223. | 6.5 | 64 |
| 53 | Modeling Nonequilibrium Adsorption of MIB and Sulfamethoxazole by Powdered Activated Carbon and the Role of Dissolved Organic Matter Competition. <i>Environmental Science & Technology</i> , 2014, 48, 13735-13742. | 4.6 | 33 |
| 54 | Photochemical fate of solvent constituents of Corexit oil dispersants. <i>Water Research</i> , 2014, 52, 101-111. | 5.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Effect of oxidant exposure on the release of intracellular microcystin, MIB, and geosmin from three cyanobacteria species. <i>Water Research</i> , 2014, 52, 251-259. | 5.3 | 118 |
| 56 | Kinetics of the reaction between the hydroxyl radical and organic matter standards from the International Humic Substance Society. <i>Journal of Soils and Sediments</i> , 2014, 14, 298-304. | 1.5 | 19 |
| 57 | Critical analysis of commonly used fluorescence metrics to characterize dissolved organic matter. <i>Water Research</i> , 2014, 49, 327-338. | 5.3 | 123 |
| 58 | Determination of COREXIT components used in the Deepwater Horizon cleanup by liquid chromatography-ion trap mass spectrometry. <i>Analytical Methods</i> , 2014, 6, 5498-5502. | 1.3 | 8 |
| 59 | Identifying the factors that influence the reactivity of effluent organic matter with hydroxyl radicals. <i>Water Research</i> , 2014, 50, 408-419. | 5.3 | 111 |
| 60 | Relation between Optical Properties and Formation of Reactive Intermediates from Different Size Fractions of Organic Matter. <i>ACS Symposium Series</i> , 2014, , 159-179. | 0.5 | 17 |
| 61 | Photochemical degradation of Corexit components in ocean water. <i>Chemosphere</i> , 2014, 111, 596-602. | 4.2 | 13 |
| 62 | Water treatment implications after the High Park Wildfire, Colorado. <i>Journal - American Water Works Association</i> , 2014, 106, E189. | 0.2 | 58 |
| 63 | Photochemical Formation of Hydroxyl Radical from Effluent Organic Matter: Role of Composition. <i>Environmental Science & Technology</i> , 2013, 47, 12073-12080. | 4.6 | 114 |
| 64 | Singlet Oxygen Formation from Wastewater Organic Matter. <i>Environmental Science & Technology</i> , 2013, 47, 8179-8186. | 4.6 | 238 |
| 65 | Using digital flow cytometry to assess the degradation of three cyanobacteria species after oxidation processes. <i>Water Research</i> , 2013, 47, 3752-3761. | 5.3 | 78 |
| 66 | Intracellular Organic Matter from Cyanobacteria as a Precursor for Carbonaceous and Nitrogenous Disinfection Byproducts. <i>Environmental Science & Technology</i> , 2013, 47, 6332-6340. | 4.6 | 111 |
| 67 | Impact of Halides on the Photoproduction of Reactive Intermediates from Organic Matter. <i>Environmental Science & Technology</i> , 2013, 47, 13949-13956. | 4.6 | 76 |
| 68 | Spectral evaluation of watershed DOM and DBP precursors. <i>Journal - American Water Works Association</i> , 2013, 105, E173. | 0.2 | 12 |
| 69 | Comparison of two polarity measurements of hydrophobic organic matter for the evaluation of water treatment processes: XAD resin and PRAM. <i>Water Science and Technology</i> , 2012, 66, 2418-2424. | 1.2 | 4 |
| 70 | Examining the Role of Effluent Organic Matter Components on the Decomposition of Ozone and Formation of Hydroxyl Radicals in Wastewater. <i>Ozone: Science and Engineering</i> , 2012, 34, 42-48. | 1.4 | 34 |
| 71 | Photochemical Formation of Hydroxyl Radical from Effluent Organic Matter. <i>Environmental Science & Technology</i> , 2012, 46, 3788-3794. | 4.6 | 165 |
| 72 | Temperature Dependence of the Reaction between the Hydroxyl Radical and Organic Matter. <i>Environmental Science & Technology</i> , 2011, 45, 6932-6937. | 4.6 | 73 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Evaluation of enhanced coagulation pretreatment to improve ozone oxidation efficiency in wastewater. <i>Water Research</i> , 2011, 45, 5191-5199. | 5.3 | 52 |
| 74 | Effect of Ozonation on Trihalomethane and Haloacetic Acid Formation and Speciation in a Full-Scale Distribution System. <i>Ozone: Science and Engineering</i> , 2011, 33, 14-22. | 1.4 | 25 |
| 75 | Reactivity of Effluent Organic Matter (EfOM) with Hydroxyl Radical as a Function of Molecular Weight. <i>Environmental Science & Technology</i> , 2010, 44, 5714-5720. | 4.6 | 118 |
| 76 | Evaluation of UV/H ₂ O ₂ treatment for the oxidation of pharmaceuticals in wastewater. <i>Water Research</i> , 2010, 44, 1440-1448. | 5.3 | 245 |
| 77 | Application of a novel polarity method for the characterization of natural organic matter during water treatment. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2009, 58, 159-169. | 0.6 | 4 |
| 78 | Characterization of fulvic acids by liquid chromatography-quadrupole time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 1319-1324. | 1.8 | 24 |
| 79 | Using Ultraviolet Absorbance and Color To Assess Pharmaceutical Oxidation during Ozonation of Wastewater. <i>Environmental Science & Technology</i> , 2009, 43, 4858-4863. | 4.6 | 118 |
| 80 | Effect of ozone exposure on the oxidation of trace organic contaminants in wastewater. <i>Water Research</i> , 2009, 43, 1005-1014. | 5.3 | 228 |
| 81 | Analysis of formaldehyde formation in wastewater using on-fiber derivatization-“solid-phase microextraction”-gas chromatography-“mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1210, 25-29. | 1.8 | 25 |
| 82 | Quantitative Correlation of Absolute Hydroxyl Radical Rate Constants with Non-Isolated Effluent Organic Matter Bulk Properties in Water. <i>Environmental Science & Technology</i> , 2008, 42, 5924-5930. | 4.6 | 88 |
| 83 | Real-Time Detection and Identification of Aqueous Chlorine Transformation Products Using QTOF MS. <i>Analytical Chemistry</i> , 2008, 80, 4193-4199. | 3.2 | 17 |
| 84 | Advances in the characterization of the polarity of DOM under ambient water quality conditions using the polarity rapid assessment method. <i>Water Science and Technology: Water Supply</i> , 2008, 8, 725-733. | 1.0 | 4 |
| 85 | Formation of oxidation byproducts from ozonation of wastewater. <i>Water Research</i> , 2007, 41, 1481-1490. | 5.3 | 243 |
| 86 | Characterization of dissolved organic matter in drinking water sources impacted by multiple tributaries. <i>Water Research</i> , 2007, 41, 4115-4128. | 5.3 | 95 |
| 87 | Characterization of the Polarity of Natural Organic Matter under Ambient Conditions by the Polarity Rapid Assessment Method (PRAM). <i>Environmental Science & Technology</i> , 2007, 41, 4895-4900. | 4.6 | 46 |
| 88 | Analysis of p-chlorobenzoic acid in water by liquid chromatography-“tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1164, 219-223. | 1.8 | 22 |
| 89 | Hearing All Voices to Address Environmental Challenges at a Global Scale. <i>Environmental Science & Technology</i> , 0, , . | 4.6 | 1 |