

Christina K Remucal

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

2,568
citations

22
h-index

46
g-index

46
ext. papers

3,170
ext. citations

7.6
avg, IF

5.98
L-index

#	Paper	IF	Citations
42	Factors affecting the yield of oxidants from the reaction of nanoparticulate zero-valent iron and oxygen. <i>Environmental Science & Technology</i> , 2008 , 42, 1262-7	10.3	519
41	Ligand-enhanced reactive oxidant generation by nanoparticulate zero-valent iron and oxygen. <i>Environmental Science & Technology</i> , 2008 , 42, 6936-41	10.3	252
40	Oxidative stress induced by zero-valent iron nanoparticles and Fe(II) in human bronchial epithelial cells. <i>Environmental Science & Technology</i> , 2009 , 43, 4555-60	10.3	184
39	A critical review of the reactivity of manganese oxides with organic contaminants. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 1247-66	4.3	166
38	Polyoxometalate-enhanced oxidation of organic compounds by nanoparticulate zero-valent iron and ferrous ion in the presence of oxygen. <i>Environmental Science & Technology</i> , 2008 , 42, 4921-6	10.3	150
37	The role of indirect photochemical degradation in the environmental fate of pesticides: a review. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 628-53	4.3	143
36	Molecular Composition and Photochemical Reactivity of Size-Fractionated Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2017 , 51, 2113-2123	10.3	104
35	Emerging investigators series: the efficacy of chlorine photolysis as an advanced oxidation process for drinking water treatment. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 565-579	4.2	102
34	The effect of advanced secondary municipal wastewater treatment on the molecular composition of dissolved organic matter. <i>Water Research</i> , 2017 , 122, 42-52	12.5	89
33	Photosensitized amino acid degradation in the presence of riboflavin and its derivatives. <i>Environmental Science & Technology</i> , 2011 , 45, 5230-7	10.3	88
32	The Impact of pH and Irradiation Wavelength on the Production of Reactive Oxidants during Chlorine Photolysis. <i>Environmental Science & Technology</i> , 2019 , 53, 4450-4459	10.3	73
31	Low molecular weight components in an aquatic humic substance as characterized by membrane dialysis and orbitrap mass spectrometry. <i>Environmental Science & Technology</i> , 2012 , 46, 9350-9	10.3	72
30	Relationships Between Dissolved Organic Matter Composition and Photochemistry in Lakes of Diverse Trophic Status. <i>Environmental Science & Technology</i> , 2017 , 51, 9624-9632	10.3	66
29	Speeding up solar disinfection (SODIS): effects of hydrogen peroxide, temperature, pH, and copper plus ascorbate on the photoinactivation of E. coli. <i>Journal of Water and Health</i> , 2008 , 6, 35-51	2.2	62
28	Structural Transformation of MnO during the Oxidation of Bisphenol A. <i>Environmental Science & Technology</i> , 2017 , 51, 6053-6062	10.3	53
27	The Role of Dissolved Organic Matter Composition in Determining Photochemical Reactivity at the Molecular Level. <i>Environmental Science & Technology</i> , 2019 , 53, 11725-11734	10.3	50
26	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 235-258	2.6	43

25	Long-term trends and synchrony in dissolved organic matter characteristics in Wisconsin, USA, lakes: Quality, not quantity, is highly sensitive to climate. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 546-561	3-7	32
24	Direct Photolysis Rates and Transformation Pathways of the Lampricides TFM and Niclosamide in Simulated Sunlight. <i>Environmental Science & Technology</i> , 2016 , 50, 9998-10006	10-3	32
23	Enhanced Indirect Photochemical Transformation of Histidine and Histamine through Association with Chromophoric Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2015 , 49, 5511-9 ¹⁰⁻³	10-3	31
22	The effect of probe choice and solution conditions on the apparent photoreactivity of dissolved organic matter. <i>Environmental Sciences: Processes and Impacts</i> , 2017 , 19, 1040-1050	4-3	25
21	Molecular-Level Transformation of Dissolved Organic Matter during Oxidation by Ozone and Hydroxyl Radical. <i>Environmental Science & Technology</i> , 2020 , 54, 10351-10360	10-3	25
20	Large Uncertainty in Estimating pCO ₂ From Carbonate Equilibria in Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2909-2924	3-7	22
19	Role of Reactive Halogen Species in Disinfection Byproduct Formation during Chlorine Photolysis. <i>Environmental Science & Technology</i> , 2020 , 54, 9629-9639	10-3	22
18	Spatial and temporal variability of perfluoroalkyl substances in the Laurentian Great Lakes. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 1816-1834	4-3	19
17	Chlorinated Byproduct Formation during the Electrochemical Advanced Oxidation Process at Magn ^{II} Phase TiO Electrodes. <i>Environmental Science & Technology</i> , 2020 , 54, 12673-12683	10-3	17
16	Potential changes to the biology and challenges to the management of invasive sea lamprey <i>Petromyzon marinus</i> in the Laurentian Great Lakes due to climate change. <i>Global Change Biology</i> , 2020 , 26, 1118-1137	11-4	15
15	Evolution of N-Containing Compounds during Hydrothermal Liquefaction of Sewage Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18303-18313	8-3	15
14	Trace Element Removal in Distributed Drinking Water Treatment Systems by Cathodic HO ₂ Production and UV Photolysis. <i>Environmental Science & Technology</i> , 2018 , 52, 195-204	10-3	15
13	Comment on "Oxidation of sulfoxides and arsenic(III) in corrosion of nanoscale zero valent iron by oxygen: evidence against ferryl ions (Fe(IV)) as active intermediates in Fenton reaction". <i>Environmental Science & Technology</i> , 2011 , 45, 3177-8; author reply 3179-80	10-3	14
12	Indirect photodegradation of the lampricides TFM and niclosamide. <i>Environmental Sciences: Processes and Impacts</i> , 2017 , 19, 1028-1039	4-3	11
11	A field analysis of lampricide photodegradation in Great Lakes tributaries. <i>Environmental Sciences: Processes and Impacts</i> , 2017 , 19, 891-900	4-3	11
10	Impact of bisphenol A influent concentration and reaction time on MnO ₂ transformation in a stirred flow reactor. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 19-27	4-3	11
9	Response to Comment on Factors Affecting the Yield of Oxidants from the Reaction of Nanoparticulate Zero-Valent Iron and Oxygen. <i>Environmental Science & Technology</i> , 2008 , 42, 5378-5378	10-3	9
8	Organic structure and solid characteristics determine reactivity of phenolic compounds with synthetic and reclaimed manganese oxides. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 540-553	4-2	9

7	Selective Reactivity and Oxidation of Dissolved Organic Matter by Manganese Oxides. <i>Environmental Science & Technology</i> , 2021 , 55, 12084-12094	10.3	4
6	Molecular-Level Insights into the Formation of Traditional and Novel Halogenated Disinfection Byproducts. <i>ACS ES&T Water</i> , 2021 , 1, 1966-1974		3
5	Response to Comment on Polyoxometalate-Enhanced Oxidation of Organic Compounds by Nanoparticulate Zero-Valent Iron and Ferrous Ion in the Presence of Oxygen. <i>Environmental Science & Technology</i> , 2008 , 42, 8169-8169	10.3	2
4	Tributary Loading and Sediment Desorption as Sources of PFAS to Receiving Waters. <i>ACS ES&T Water</i> ,		2
3	Identifying the mechanisms of cation inhibition of phenol oxidation by acid birnessite. <i>Journal of Environmental Quality</i> , 2020 , 49, 1644-1654	3.4	1
2	Seasonal and Spatial Variability of Dissolved Carbon Concentration and Composition in Lake Michigan Tributaries. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006449	3.7	0
1	Patterns and trends of organic matter processing and transport: Insights from the US long-term ecological research network. <i>Climate Change Ecology</i> , 2021 , 2, 100025		0