

Charles M Sharpless

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,460
citations

304743

22
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

2402
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of charge-transfer interactions in determining chromophoric dissolved organic matter (CDOM) optical and photochemical properties. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 654-671.	3.5	267
2	Correlations between Dissolved Organic Matter Optical Properties and Quantum Yields of Singlet Oxygen and Hydrogen Peroxide. <i>Environmental Science & Technology</i> , 2010, 44, 5824-5829.	10.0	254
3	Experimental and Model Comparisons of Low- and Medium-Pressure Hg Lamps for the Direct and H ₂ O ₂ Assisted UV Photodegradation of N-Nitrosodimethylamine in Simulated Drinking Water. <i>Environmental Science & Technology</i> , 2003, 37, 1933-1940.	10.0	245
4	Photooxidation-Induced Changes in Optical, Electrochemical, and Photochemical Properties of Humic Substances. <i>Environmental Science & Technology</i> , 2014, 48, 2688-2696.	10.0	211
5	Lifetimes of Triplet Dissolved Natural Organic Matter (DOM) and the Effect of NaBH ₄ Reduction on Singlet Oxygen Quantum Yields: Implications for DOM Photophysics. <i>Environmental Science & Technology</i> , 2012, 46, 4466-4473.	10.0	168
6	Bacterial Spore Detection and Determination by Use of Terbium Dipicolinate Photoluminescence. <i>Analytical Chemistry</i> , 1997, 69, 1082-1085.	6.5	145
7	Triplet Photochemistry of Effluent and Natural Organic Matter in Whole Water and Isolates from Effluent-Receiving Rivers. <i>Environmental Science & Technology</i> , 2015, 49, 3453-3463.	10.0	135
8	p-Nitroanisole/Pyridine and p-Nitroacetophenone/Pyridine Actinometers Revisited: Quantum Yield in Comparison to Ferrioxalate. <i>Environmental Science and Technology Letters</i> , 2017, 4, 11-14.	8.7	135
9	UV Photolysis of Nitrate: Effects of Natural Organic Matter and Dissolved Inorganic Carbon and Implications for UV Water Disinfection. <i>Environmental Science & Technology</i> , 2001, 35, 2949-2955.	10.0	121
10	Production of Photo-oxidants by Dissolved Organic Matter During UV Water Treatment. <i>Environmental Science & Technology</i> , 2013, 47, 11726-11733.	10.0	101
11	Partial Photochemical Oxidation Was a Dominant Fate of <i>Deepwater Horizon</i> Surface Oil. <i>Environmental Science & Technology</i> , 2018, 52, 1797-1805.	10.0	94
12	Role of effluent organic matter in the photochemical degradation of compounds of wastewater origin. <i>Water Research</i> , 2017, 110, 170-179.	11.3	87
13	Photochemical Degradation of Polycyclic Aromatic Hydrocarbons in Oil Films. <i>Environmental Science & Technology</i> , 2008, 42, 2432-2438.	10.0	86
14	How Persistent and Bioavailable Are Oxygenated <i>Deepwater Horizon</i> Oil Transformation Products?. <i>Environmental Science & Technology</i> , 2018, 52, 7250-7258.	10.0	51
15	Impact of hydrogen peroxide on nitrite formation during UV disinfection. <i>Water Research</i> , 2003, 37, 4730-4736.	11.3	50
16	Effects of Aluminum-Induced Aggregation on the Fluorescence of Humic Substances. <i>Environmental Science & Technology</i> , 1999, 33, 3264-3270.	10.0	49
17	Relative Rate Constants of Contaminant Candidate List Pesticides with Hydroxyl Radicals. <i>Environmental Science & Technology</i> , 2006, 40, 4460-4466.	10.0	43
18	Effect of UV Irradiation on Organic Matter Extracted from Treated Ohio River Water Studied through the Use of Electrospray Mass Spectrometry. <i>Environmental Science & Technology</i> , 2002, 36, 5252-5260.	10.0	42

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19	Nitrate photosensitized degradation of atrazine during UV water treatment. <i>Aquatic Sciences</i> , 2003, 65, 359-366.	1.5	42
20	Treatment of Volatile Organic Chemicals on the EPA Contaminant Candidate List Using Ozonation and the O ₃ /H ₂ O ₂ Advanced Oxidation Process. <i>Environmental Science & Technology</i> , 2006, 40, 2734-2739.	10.0	42
21	Photodegradation of UV filters oxybenzone and sulisobenzene in wastewater effluent and by dissolved organic matter. <i>Applied Geochemistry</i> , 2017, 83, 150-157.	3.0	26
22	Photodegradation of 3,5,6-trichloro-2-pyridinol in aqueous solution. <i>Water, Air, and Soil Pollution</i> , 2005, 168, 145-155.	2.4	22
23	Nitrate with benefits: optimizing radical production during UV water treatment. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1163-1175.	2.4	19
24	Interpreting collimated beam ultraviolet photolysis rate data in terms of electrical efficiency of treatment. <i>Journal of Environmental Engineering and Science</i> , 2005, 4, S19-S26.	0.8	13
25	Examining Inputs of Biogenic and Oil-Derived Hydrocarbons in Surface Waters Following the Deepwater Horizon Oil Spill. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1329-1337.	2.7	12