

Rose Cory

List of Publications by Year in descending order

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68
papers

6,783
citations

66343

42
h-index

110387

64
g-index

73
all docs

73
docs citations

73
times ranked

6848
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence Spectroscopy Reveals Ubiquitous Presence of Oxidized and Reduced Quinones in Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2005, 39, 8142-8149.	10.0	1,313
2	Sunlight controls water column processing of carbon in arctic fresh waters. <i>Science</i> , 2014, 345, 925-928.	12.6	428
3	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. <i>Biogeosciences</i> , 2015, 12, 7129-7167.	3.3	354
4	Dark Formation of Hydroxyl Radical in Arctic Soil and Surface Waters. <i>Environmental Science & Technology</i> , 2013, 47, 12860-12867.	10.0	198
5	Cyanobacterial harmful algal blooms are a biological disturbance to Western Lake Erie bacterial communities. <i>Environmental Microbiology</i> , 2017, 19, 1149-1162.	3.8	193
6	Fluorescence characteristics of dissolved organic matter in the deep waters of the Okhotsk Sea and the northwestern North Pacific Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1478-1485.	1.4	181
7	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 127-179.	2.9	177
8	Biological lability of streamwater fluorescent dissolved organic matter. <i>Limnology and Oceanography</i> , 2012, 57, 1347-1360.	3.1	171
9	Chemical characteristics of fulvic acids from Arctic surface waters: Microbial contributions and photochemical transformations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	168
10	Surface exposure to sunlight stimulates CO ₂ release from permafrost soil carbon in the Arctic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3429-3434.	7.1	166
11	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , 2019, 2, 569-579.	23.7	156
12	Probing the oxidation–reduction properties of terrestrially and microbially derived dissolved organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3003-3015.	3.9	143
13	Complete and Partial Photo-oxidation of Dissolved Organic Matter Draining Permafrost Soils. <i>Environmental Science & Technology</i> , 2016, 50, 3545-3553.	10.0	140
14	Characterizing Dissolved Organic Matter Using PARAFAC Modeling of Fluorescence Spectroscopy: A Comparison of Two Models. <i>Environmental Science & Technology</i> , 2009, 43, 6228-6234.	10.0	137
15	Interactions between sunlight and microorganisms influence dissolved organic matter degradation along the aquatic continuum. <i>Limnology and Oceanography Letters</i> , 2018, 3, 102-116.	3.9	137
16	Singlet Oxygen in the Coupled Photochemical and Biochemical Oxidation of Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2010, 44, 3683-3689.	10.0	134
17	Biotic and Abiotic Interactions in Aquatic Microcosms Determine Fate and Toxicity of Ag Nanoparticles: Part 2—Toxicity and Ag Speciation. <i>Environmental Science & Technology</i> , 2012, 46, 6925-6933.	10.0	128
18	Effect of instrument-specific response on the analysis of fulvic acid fluorescence spectra. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 67-78.	2.0	113

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19	Photochemical alteration of organic carbon draining permafrost soils shifts microbial metabolic pathways and stimulates respiration. <i>Nature Communications</i> , 2017, 8, 772.	12.8	112
20	Effect of instrument-specific response on the analysis of fulvic acid fluorescence spectra. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 67-78.	2.0	104
21	Spatial and Temporal Distribution of Singlet Oxygen in Lake Superior. <i>Environmental Science & Technology</i> , 2012, 46, 7222-7229.	10.0	103
22	Quantifying Interactions between Singlet Oxygen and Aquatic Fulvic Acids. <i>Environmental Science & Technology</i> , 2009, 43, 718-723.	10.0	102
23	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, 9350-9359.	10.0	93
24	Evidence for dissolved organic matter as the primary source and sink of photochemically produced hydroxyl radical in arctic surface waters. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 807-822.	3.5	92
25	The role of reactive oxygen species in the degradation of lignin derived dissolved organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 208, 171-184.	3.9	91
26	Characterization of a nitrogen-rich fulvic acid and its precursor algae from solid state NMR. <i>Organic Geochemistry</i> , 2007, 38, 1277-1292.	1.8	89
27	The role of iron and reactive oxygen species in the production of CO ₂ in arctic soil waters. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 80-95.	3.9	89
28	Chemical composition of dissolved organic matter draining permafrost soils. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 167, 63-79.	3.9	88
29	Hyporheic Exchange and Fulvic Acid Redox Reactions in an Alpine Stream/Wetland Ecosystem, Colorado Front Range. <i>Environmental Science & Technology</i> , 2006, 40, 5943-5949.	10.0	85
30	Insights into the complete and partial photooxidation of black carbon in surface waters. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 721-731.	3.5	82
31	Sources and fates of dissolved organic carbon in lakes as determined by whole-lake carbon isotope additions. <i>Biogeochemistry</i> , 2007, 84, 115-129.	3.5	80
32	Controls on dissolved organic matter (DOM) degradation in a headwater stream: the influence of photochemical and hydrological conditions in determining light-limitation or substrate-limitation of photo-degradation. <i>Biogeosciences</i> , 2015, 12, 6669-6685.	3.3	79
33	A coupled geochemical and biogeochemical approach to characterize the bioreactivity of dissolved organic matter from a headwater stream. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1520-1537.	3.0	73
34	Changes in dissolved organic matter fluorescence and disinfection byproduct formation from UV and subsequent chlorination/chloramination. <i>Journal of Hazardous Materials</i> , 2014, 264, 411-419.	12.4	68
35	New light on a dark subject: comment. <i>Aquatic Sciences</i> , 2010, 72, 269-275.	1.5	59
36	Seasonal Dynamics in Dissolved Organic Matter, Hydrogen Peroxide, and Cyanobacterial Blooms in Lake Erie. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	57

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37	Distinguishing dynamics of dissolved organic matter components in a forested stream using kinetic enrichments. <i>Limnology and Oceanography</i> , 2012, 57, 76-89.	3.1	56
38	Changes in fulvic acid redox state through the oxycline of a permanently ice-covered Antarctic lake. <i>Aquatic Sciences</i> , 2004, 66, 27-46.	1.5	51
39	Chemical characterization of DOM in channels of a seasonal wetland. <i>Aquatic Sciences</i> , 2007, 69, 456-471.	1.5	51
40	Solar UV radiation in a changing world: roles of cryosphere-land-water-atmosphere interfaces in global biogeochemical cycles. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 747-774.	2.9	49
41	Photodegradation disproportionately impacts biodegradation of semi-labile DOM in streams. <i>Limnology and Oceanography</i> , 2020, 65, 13-26.	3.1	49
42	The Controls of Iron and Oxygen on Hydroxyl Radical ($\cdot\text{OH}$) Production in Soils. <i>Soil Systems</i> , 2019, 3, 1.	2.6	48
43	Arctic Amplification of Global Warming Strengthened by Sunlight Oxidation of Permafrost Carbon to CO_2 . <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087085.	4.0	38
44	Disentangling the Interactions Between Photochemical and Bacterial Degradation of Dissolved Organic Matter: Amino Acids Play a Central Role. <i>Microbial Ecology</i> , 2015, 69, 554-566.	2.8	37
45	Determination of specific types and relative levels of QPCR inhibitors in environmental water samples using excitation-emission matrix spectroscopy and PARAFAC. <i>Water Research</i> , 2013, 47, 3467-3476.	11.3	31
46	When a habitat freezes solid: microorganisms over-winter within the ice column of a coastal Antarctic lake. <i>FEMS Microbiology Ecology</i> , 2011, 76, 401-412.	2.7	28
47	Dissolved organic carbon lability increases with water residence time in the alluvial aquifer of a river floodplain ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 693-706.	3.0	28
48	Characterization of fulvic acid fractions of dissolved organic matter during ice-out in a hyper-eutrophic, coastal pond in Antarctica. <i>Environmental Research Letters</i> , 2013, 8, 045015.	5.2	27
49	Biological Origins and Fate of Fluorescent Dissolved Organic Matter in Aquatic Environments. , 2014, , 278-300.		27
50	Assessing the prevalence, products, and pathways of dissolved organic matter partial photo-oxidation in arctic surface waters. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1214-1223.	3.5	26
51	Spectral Methods to Advance Understanding of Dissolved Organic Carbon Dynamics in Forested Catchments. <i>Ecological Studies</i> , 2011, , 117-135.	1.2	26
52	Minimization of short-term low-pressure membrane fouling using a magnetic ion exchange (MIEX [®]) resin. <i>Water Research</i> , 2016, 98, 225-234.	11.3	24
53	Pulling apart the urbanization axis: patterns of physiochemical degradation and biological response across stream ecosystems. <i>Freshwater Science</i> , 2018, 37, 653-672.	1.8	24
54	Variability of in-stream and riparian storage in a beaded arctic stream. <i>Hydrological Processes</i> , 2012, 26, 2938-2950.	2.6	22

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55	Microbial growth under humic-free conditions in a supraglacial stream system on the Cotton Glacier, Antarctica. <i>Environmental Research Letters</i> , 2013, 8, 035022.	5.2	21
56	Experimental metatranscriptomics reveals the costs and benefits of dissolved organic matter photoalteration for freshwater microbes. <i>Environmental Microbiology</i> , 2020, 22, 3505-3521.	3.8	21
57	The role of dissolved organic matter in arctic surface waters in the photolysis of hexachlorobenzene and lindane. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
58	¹⁵ N and ¹³ C{ ¹⁴ N} NMR investigation of the major nitrogen-containing segment in an aquatic fulvic acid: Evidence for a hydantoin derivative. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 775-780.	1.9	15
59	Chemical differences of aquatic humic substances extracted by XAD-8 and DEAE-cellulose. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 2982-2990.	6.7	14
60	Efficacy of selected pretreatment processes in the mitigation of low-pressure membrane fouling and its correlation to their removal of microbial DOM. <i>Chemosphere</i> , 2021, 277, 130284.	8.2	13
61	Direct noninvasive ¹ H NMR analysis of stream water DOM: Insights into the effects of lyophilization compared with whole water. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 540-553.	1.9	9
62	Effects of vertical hydrodynamic mixing on photomineralization of dissolved organic carbon in arctic surface waters. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 748-760.	3.5	8
63	Effect of Decreasing Biological Lability on Dissolved Organic Matter Dynamics in Streams. <i>Water Resources Research</i> , 2021, 57, e2020WR027918.	4.2	6
64	Interlaboratory differences in the apparent quantum yield for the photochemical production of dissolved inorganic carbon in inland waters and implications for photochemical rate modeling. <i>Limnology and Oceanography: Methods</i> , 2022, 20, 320-337.	2.0	6
65	Appreciation of 2017 GRL Peer Reviewers. <i>Geophysical Research Letters</i> , 2018, 45, 4494-4528.	4.0	0
66	Thank You to Our 2018 Peer Reviewers. <i>Geophysical Research Letters</i> , 2019, 46, 12608-12636.	4.0	0
67	Thank You to Our 2020 Peer Reviewers. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093126.	4.0	0
68	Thank You to Our 2021 Peer Reviewers. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	0