

Aron Stubbins

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

9,450
citations

57631

44
h-index

40881

93
g-index

108
all docs

108
docs citations

108
times ranked

6933
citing authors

#	ARTICLE	IF	CITATIONS
1	Absorption spectral slopes and slope ratios as indicators of molecular weight, source, and photobleaching of chromophoric dissolved organic matter. <i>Limnology and Oceanography</i> , 2008, 53, 955-969.	1.6	2,071
2	Illuminated darkness: Molecular signatures of Congo River dissolved organic matter and its photochemical alteration as revealed by ultrahigh precision mass spectrometry. <i>Limnology and Oceanography</i> , 2010, 55, 1467-1477.	1.6	527
3	Global Charcoal Mobilization from Soils via Dissolution and Riverine Transport to the Oceans. <i>Science</i> , 2013, 340, 345-347.	6.0	432
4	Advanced Instrumental Approaches for Characterization of Marine Dissolved Organic Matter:Â Extraction Techniques, Mass Spectrometry, and Nuclear Magnetic Resonance Spectroscopy. <i>Chemical Reviews</i> , 2007, 107, 419-442.	23.0	310
5	Whatâ€™s in an EEM? Molecular Signatures Associated with Dissolved Organic Fluorescence in Boreal Canada. <i>Environmental Science & Technology</i> , 2014, 48, 10598-10606.	4.6	292
6	Plastics in the Earth system. <i>Science</i> , 2021, 373, 51-55.	6.0	290
7	Detecting the signature of permafrost thaw in Arctic rivers. <i>Geophysical Research Letters</i> , 2015, 42, 2830-2835.	1.5	261
8	Deciphering ocean carbon in a changing world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3143-3151.	3.3	253
9	Photochemical degradation of dissolved organic matter and dissolved lignin phenols from the Congo River. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	252
10	Photochemical bleaching of oceanic dissolved organic matter and its effect on absorption spectral slope and fluorescence. <i>Marine Chemistry</i> , 2013, 155, 81-91.	0.9	239
11	Photochemical dissolution of buoyant microplastics to dissolved organic carbon: Rates and microbial impacts. <i>Journal of Hazardous Materials</i> , 2020, 383, 121065.	6.5	212
12	Photo-lability of deep ocean dissolved black carbon. <i>Biogeosciences</i> , 2012, 9, 1661-1670.	1.3	207
13	Anthropogenic aerosols as a source of ancient dissolved organic matter in glaciers. <i>Nature Geoscience</i> , 2012, 5, 198-201.	5.4	199
14	Source and biolability of ancient dissolved organic matter in glacier and lake ecosystems on the Tibetan Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 64-74.	1.6	186
15	Continuous flux of dissolved black carbon from a vanished tropical forest biome. <i>Nature Geoscience</i> , 2012, 5, 618-622.	5.4	183
16	An intercomparison of three methods for the large-scale isolation of oceanic dissolved organic matter. <i>Marine Chemistry</i> , 2014, 161, 14-19.	0.9	168
17	Temporal controls on dissolved organic matter and lignin biogeochemistry in a pristine tropical river, Democratic Republic of Congo. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	137
18	Dissolved black carbon in aquatic ecosystems. <i>Limnology and Oceanography Letters</i> , 2018, 3, 168-185.	1.6	115

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19	Marine Photochemistry of Organic Matter. , 2015, , 389-450.		111
20	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.	1.0	109
21	An initial investigation into the organic matter biogeochemistry of the Congo River. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 614-627.	1.6	108
22	Loss of optical and molecular indicators of terrigenous dissolved organic matter during long-term photobleaching. <i>Aquatic Sciences</i> , 2014, 76, 353-373.	0.6	105
23	Efficient removal of recalcitrant deep-ocean dissolved organic matter during hydrothermal circulation. <i>Nature Geoscience</i> , 2015, 8, 856-860.	5.4	104
24	Competition between photochemical and biological degradation of dissolved organic matter from the cyanobacteria <i>Microcystis aeruginosa</i> . <i>Limnology and Oceanography</i> , 2015, 60, 1172-1194.	1.6	103
25	Open-ocean carbon monoxide photoproduction. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1695-1705.	0.6	102
26	Chromophoric dissolved organic matter export from U.S. rivers. <i>Geophysical Research Letters</i> , 2013, 40, 1575-1579.	1.5	94
27	Relating Carbon Monoxide Photoproduction to Dissolved Organic Matter Functionality. <i>Environmental Science & Technology</i> , 2008, 42, 3271-3276.	4.6	87
28	Utilizing colored dissolved organic matter to derive dissolved black carbon export by arctic rivers. <i>Frontiers in Earth Science</i> , 2015, 3, .	0.8	83
29	Variability of chromophoric organic matter in surface waters of the Atlantic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1666-1684.	0.6	82
30	Dissolved Organic Matter in Aquatic Systems. , 2014, , 125-156.		82
31	Low volume quantification of dissolved organic carbon and dissolved nitrogen. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 347-352.	1.0	79
32	Spatial Dependence of Reduced Sulfur in Everglades Dissolved Organic Matter Controlled by Sulfate Enrichment. <i>Environmental Science & Technology</i> , 2017, 51, 3630-3639.	4.6	78
33	Associations Between the Molecular and Optical Properties of Dissolved Organic Matter in the Florida Everglades, a Model Coastal Wetland System. <i>Frontiers in Chemistry</i> , 2015, 3, 66.	1.8	74
34	ICBM-OCEAN: Processing Ultrahigh-Resolution Mass Spectrometry Data of Complex Molecular Mixtures. <i>Analytical Chemistry</i> , 2020, 92, 6832-6838.	3.2	74
35	Isotopic composition of oceanic dissolved black carbon reveals non-riverine source. <i>Nature Communications</i> , 2019, 10, 5064.	5.8	73
36	Illuminating the deep: Molecular signatures of photochemical alteration of dissolved organic matter from North Atlantic Deep Water. <i>Marine Chemistry</i> , 2015, 177, 318-324.	0.9	69

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37	Ultrahigh resolution mass spectrometric differentiation of dissolved organic matter isolated by coupled reverse osmosis-electrodialysis from various major oceanic water masses. <i>Marine Chemistry</i> , 2014, 164, 48-59.	0.9	61
38	Characterization and photodegradation of dissolved organic matter (DOM) from a tropical lake and its dominant primary producer, the cyanobacteria <i>Microcystis aeruginosa</i> . <i>Marine Chemistry</i> , 2015, 177, 205-217.	0.9	61
39	Thermally altered marine dissolved organic matter in hydrothermal fluids. <i>Organic Geochemistry</i> , 2017, 110, 73-86.	0.9	57
40	Tree-DOM: Dissolved organic matter in throughfall and stemflow. <i>Limnology and Oceanography Letters</i> , 2018, 3, 199-214.	1.6	56
41	Molecular Hysteresis: Hydrologically Driven Changes in Riverine Dissolved Organic Matter Chemistry During a Storm Event. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 759-774.	1.3	55
42	The open-ocean source of atmospheric carbon monoxide. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1685-1694.	0.6	54
43	Low photolability of yedoma permafrost dissolved organic carbon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 200-211.	1.3	52
44	Carbon monoxide apparent quantum yields and photoproduction in the Tyne estuary. <i>Biogeosciences</i> , 2011, 8, 703-713.	1.3	48
45	Bioavailability and molecular composition of dissolved organic matter from a diffuse hydrothermal system. <i>Marine Chemistry</i> , 2015, 177, 257-266.	0.9	48
46	Molecular and Optical Properties of Tree-Derived Dissolved Organic Matter in Throughfall and Stemflow from Live Oaks and Eastern Red Cedar. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	48
47	Seasonal dynamics of dissolved, particulate and microbial components of a tidal saltmarsh-dominated estuary under contrasting levels of freshwater discharge. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 182, 72-85.	0.9	47
48	Evaluating the photoalteration of estuarine dissolved organic matter using direct temperature-resolved mass spectrometry and UV-visible spectroscopy. <i>Aquatic Sciences</i> , 2007, 69, 440-455.	0.6	42
49	Carbonaceous matter in the atmosphere and glaciers of the Himalayas and the Tibetan plateau: An investigative review. <i>Environment International</i> , 2021, 146, 106281.	4.8	42
50	Seasonal variability of organic matter composition in an Alaskan glacier outflow: insights into glacier carbon sources. <i>Environmental Research Letters</i> , 2014, 9, 055005.	2.2	41
51	Photochemical Alteration of Dissolved Organic Sulfur from Sulfidic Porewater. <i>Environmental Science & Technology</i> , 2017, 51, 14144-14154.	4.6	38
52	Spatial Variation in the Origin of Dissolved Organic Carbon in Snow on the Juneau Icefield, Southeast Alaska. <i>Environmental Science & Technology</i> , 2015, 49, 11492-11499.	4.6	34
53	Fossil Fuel Combustion Emission From South Asia Influences Precipitation Dissolved Organic Carbon Reaching the Remote Tibetan Plateau: Isotopic and Molecular Evidence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6248-6258.	1.2	34
54	Online quantification and compound-specific stable isotopic analysis of black carbon in environmental matrices via liquid chromatography-isotope ratio mass spectrometry. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 995-1006.	1.0	33

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55	Temporal Dynamics in the Concentration, Flux, and Optical Properties of Tree-Derived Dissolved Organic Matter in an Epiphyte-Laden Oak-Cedar Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2982-2997.	1.3	32
56	Hydrological and Biogeochemical Controls on Absorption and Fluorescence of Dissolved Organic Matter in the Northern South China Sea. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3405-3418.	1.3	31
57	Hydrocarbons to carboxyl-rich alicyclic molecules: A continuum model to describe biodegradation of petroleum-derived dissolved organic matter in contaminated groundwater plumes. <i>Journal of Hazardous Materials</i> , 2021, 402, 123998.	6.5	31
58	Source Switching Maintains Dissolved Organic Matter Chemostasis Across Discharge Levels in a Large Temperate River Network. <i>Ecosystems</i> , 2021, 24, 227-247.	1.6	30
59	Aged dissolved organic carbon exported from rivers of the Tibetan Plateau. <i>PLoS ONE</i> , 2017, 12, e0178166.	1.1	29
60	Questions remain about the biolability of dissolved black carbon along the combustion continuum. <i>Nature Communications</i> , 2021, 12, 4281.	5.8	28
61	Watershed Glacier Coverage Influences Dissolved Organic Matter Biogeochemistry in Coastal Watersheds of Southeast Alaska. <i>Ecosystems</i> , 2014, 17, 1014-1025.	1.6	27
62	<i>Tillandsia usneoides</i> (L.) L. (Spanish moss) water storage and leachate characteristics from two maritime oak forest settings. <i>Ecohydrology</i> , 2015, 8, 988-1004.	1.1	27
63	A mini-electrodialysis system for desalting small volume saline samples for Fourier transform ion cyclotron resonance mass spectrometry. <i>Limnology and Oceanography: Methods</i> , 2011, 9, 582-592.	1.0	25
64	Spectroscopic characterization of oceanic dissolved organic matter isolated by reverse osmosis coupled with electrodialysis. <i>Marine Chemistry</i> , 2015, 177, 278-287.	0.9	22
65	Characterization of dissolved organic material in the interstitial brine of Lake Vida, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 183, 63-78.	1.6	19
66	Interstorm Variability in the Biolability of Tree-Derived Dissolved Organic Matter (Tree-DOM) in Throughfall and Stemflow. <i>Forests</i> , 2018, 9, 236.	0.9	18
67	Assessing the potential impacts of declining Arctic sea ice cover on the photochemical degradation of dissolved organic matter in the Chukchi and Beaufort Seas. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2326-2344.	1.3	17
68	Dissolved black carbon in throughfall and stemflow in a fire-managed longleaf pine woodland. <i>Biogeochemistry</i> , 2019, 146, 191-207.	1.7	17
69	Dissolved Organic Matter Dynamics in the Epipelagic Northwest Pacific Low-Latitude Western Boundary Current System: Insights From Optical Analyses. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017458.	1.0	17
70	Dissolved organic matter sources in glacierized watersheds delineated through compositional and carbon isotopic modeling. <i>Limnology and Oceanography</i> , 2021, 66, 438-451.	1.6	16
71	El Niño-Driven Dry Season Flushing Enhances Dissolved Organic Matter Export From a Subtropical Watershed. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089877.	1.5	15
72	Spatial characteristics and removal of dissolved black carbon in the western Arctic Ocean and Bering Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 304, 178-190.	1.6	14

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73	Organic Molecular Signatures of the Congo River and Comparison to the Amazon. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	14
74	Transport of dissolved black carbon from the Prydz Bay Shelf, Antarctica to the deep Southern Ocean. <i>Limnology and Oceanography</i> , 2018, 63, 2179-2190.	1.6	13
75	Key Questions on the Evaporation and Transport of Intercepted Precipitation. , 2020, , 269-280.		13
76	The evolution of stream dissolved organic matter composition following glacier retreat in coastal watersheds of southeast Alaska. <i>Biogeochemistry</i> , 2023, 164, 99-116.	1.7	12
77	Drivers of Organic Molecular Signatures in the Amazon River. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006938.	1.9	12
78	Investigating Atmospheric Inputs of Dissolved Black Carbon to the Santa Barbara Channel During the Thomas Fire (California, USA). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006442.	1.3	12
79	A carbon for every nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10736-10738.	3.3	11
80	MoDIE: Moderate dissolved inorganic carbon (DI13C) isotope enrichment for improved evaluation of DIC photochemical production in natural waters. <i>Marine Chemistry</i> , 2017, 194, 1-9.	0.9	11
81	Du Feu À l'Eau: Source and Flux of Dissolved Black Carbon From the Congo River. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006560.	1.9	11
82	River network travel time is correlated with dissolved organic matter composition in rivers of the contiguous United States. <i>Hydrological Processes</i> , 2021, 35, e14124.	1.1	11
83	Does Photomineralization of Dissolved Organics Matter in Temperate Rivers?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006402.	1.3	11
84	Enhanced Dissolved Organic Matter Recovery from Saltwater Samples with Electrodialysis. <i>Aquatic Geochemistry</i> , 2016, 22, 555-572.	1.5	10
85	Using liquid chromatography-isotope ratio mass spectrometry to measure the $\delta^{13}C$ of dissolved inorganic carbon photochemically produced from dissolved organic carbon. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 103-115.	1.0	9
86	Event Scale Relationships of DOC and TDN Fluxes in Throughfall and Stemflow Diverge From Stream Exports in a Forested Catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006281.	1.3	9
87	Throughfall and Stemflow: The Crowning Headwaters of the Aquatic Carbon Cycle. , 2020, , 121-132.		8
88	Comment on "Dissolved organic sulfur in the ocean: Biogeochemistry of a petagram inventory". <i>Science</i> , 2017, 356, 813-813.	6.0	7
89	Assessing inputs of aquaculture-derived nutrients to streams using dissolved organic matter fluorescence. <i>Science of the Total Environment</i> , 2022, 807, 150785.	3.9	7
90	Assessing the Role of Photochemistry in Driving the Composition of Dissolved Organic Matter in Glacier Runoff. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006516.	1.3	7

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91	Geochemistry of the Congo River, estuary, and plume. , 2013, , 554-583.		5
92	Predicting dissolved organic carbon concentration in a dynamic salt marsh creek via machine learning. Limnology and Oceanography: Methods, 2021, 19, 81-95.	1.0	5
93	Export of photolabile and photoprivable dissolved organic carbon from the Connecticut River. Aquatic Sciences, 2021, 83, 1.	0.6	4
94	Non-conservative behavior of dissolved organic carbon in a Georgia salt marsh creek indicates summer outwelling. Estuarine, Coastal and Shelf Science, 2022, 265, 107709.	0.9	4
95	LINKING OPTICAL AND CHEMICAL PROPERTIES OF DISSOLVED ORGANIC MATTER IN NATURAL WATERS. Limnology and Oceanography Bulletin, 2013, 22, 78-82.	0.2	3
96	Chemical Fouling Reduction of a Submersible Steel Spectrophotometer in Estuarine Environments Using a Sacrificial Zinc Anode. Journal of Environmental Quality, 2015, 44, 1321-1325.	1.0	3
97	Using <sc>DOM</sc> fluorescence to predict total mercury and methylmercury in forested headwater streams, Sleepers River, Vermont <sc>USA</sc>. Hydrological Processes, 0, , .	1.1	2
98	The Ocean Microbiome: Metabolic Engine of the Marine Carbon Cycle. Microbe Magazine, 2016, 11, 262-267.	0.4	1
99	A dissolved organic carbon (DOC) analyzer capable of detecting sub—1/4M DOC differences in natural fresh waters: A proof of concept study. Limnology and Oceanography: Methods, 2018, 16, 309-321.	1.0	1
100	How Trees Make Tea. Frontiers for Young Minds, 0, 10, .	0.8	1