

Aron Stubbins

List of Publications by Citations

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98
papers

6,494
citations

38
h-index

80
g-index

108
ext. papers

8,080
ext. citations

7
avg, IF

5.95
L-index

#	Paper	IF	Citations
98	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	4.8	1550
97	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	4.8	396
96	Global charcoal mobilization from soils via dissolution and riverine transport to the oceans. <i>Science</i> , 2013 , 340, 345-7	33.3	310
95	Advanced instrumental approaches for characterization of marine dissolved organic matter: extraction techniques, mass spectrometry, and nuclear magnetic resonance spectroscopy. <i>Chemical Reviews</i> , 2007 , 107, 419-42	68.1	251
94	What's in an EEM? Molecular signatures associated with dissolved organic fluorescence in boreal Canada. <i>Environmental Science & Technology</i> , 2014 , 48, 10598-606	10.3	213
93	Detecting the signature of permafrost thaw in Arctic rivers. <i>Geophysical Research Letters</i> , 2015 , 42, 2830-2835	4.9	211
92	Photochemical degradation of dissolved organic matter and dissolved lignin phenols from the Congo River. <i>Journal of Geophysical Research</i> , 2009 , 114,		194
91	Photochemical bleaching of oceanic dissolved organic matter and its effect on absorption spectral slope and fluorescence. <i>Marine Chemistry</i> , 2013 , 155, 81-91	3.7	170
90	Anthropogenic aerosols as a source of ancient dissolved organic matter in glaciers. <i>Nature Geoscience</i> , 2012 , 5, 198-201	18.3	165
89	Deciphering ocean carbon in a changing world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3143-51	11.5	159
88	Photo-lability of deep ocean dissolved black carbon. <i>Biogeosciences</i> , 2012 , 9, 1661-1670	4.6	154
87	Continuous flux of dissolved black carbon from a vanished tropical forest biome. <i>Nature Geoscience</i> , 2012 , 5, 618-622	18.3	141
86	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	5.5	137
85	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,		122
84	An intercomparison of three methods for the large-scale isolation of oceanic dissolved organic matter. <i>Marine Chemistry</i> , 2014 , 161, 14-19	3.7	114
83	Photochemical dissolution of buoyant microplastics to dissolved organic carbon: Rates and microbial impacts. <i>Journal of Hazardous Materials</i> , 2020 , 383, 121065	12.8	97
82	An initial investigation into the organic matter biogeochemistry of the Congo River. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 84, 614-627	5.5	94

81	Open-ocean carbon monoxide photoproduction. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006 , 53, 1695-1705	2.3	82
80	Loss of optical and molecular indicators of terrigenous dissolved organic matter during long-term photobleaching. <i>Aquatic Sciences</i> , 2014 , 76, 353-373	2.5	79
79	Marine Photochemistry of Organic Matter 2015 , 389-450		76
78	Relating carbon monoxide photoproduction to dissolved organic matter functionality. <i>Environmental Science & Technology</i> , 2008 , 42, 3271-6	10.3	74
77	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	2.3	74
76	Efficient removal of recalcitrant deep-ocean dissolved organic matter during hydrothermal circulation. <i>Nature Geoscience</i> , 2015 , 8, 856-860	18.3	72
75	Chromophoric dissolved organic matter export from U.S. rivers. <i>Geophysical Research Letters</i> , 2013 , 40, 1575-1579	4.9	68
74	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	4.8	67
73	Low volume quantification of dissolved organic carbon and dissolved nitrogen. <i>Limnology and Oceanography: Methods</i> , 2012 , 10, 347-352	2.6	59
72	Plastics in the Earth system. <i>Science</i> , 2021 , 373, 51-55	33.3	59
71	Utilizing colored dissolved organic matter to derive dissolved black carbon export by arctic rivers. <i>Frontiers in Earth Science</i> , 2015 , 3,	3.5	58
70	Dissolved black carbon in aquatic ecosystems. <i>Limnology and Oceanography Letters</i> , 2018 , 3, 168-185	7.9	55
69	Dissolved Organic Matter in Aquatic Systems 2014 , 125-156		49
68	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	3.7	48
67	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	5	48
66	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	3.7	46
65	The open-ocean source of atmospheric carbon monoxide. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006 , 53, 1685-1694	2.3	46
64	Spatial Dependence of Reduced Sulfur in Everglades Dissolved Organic Matter Controlled by Sulfate Enrichment. <i>Environmental Science & Technology</i> , 2017 , 51, 3630-3639	10.3	45

63	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
62	Carbon monoxide apparent quantum yields and photoproduction in the Tyne estuary. <i>Biogeosciences</i> , 2011 , 8, 703-713	4.6	43
61	Low photolability of yedoma permafrost dissolved organic carbon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 200-211	3.7	42
60	Tree-DOM: Dissolved organic matter in throughfall and stemflow. <i>Limnology and Oceanography Letters</i> , 2018 , 3, 199-214	7.9	37
59	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,	3.5	36
58	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	2.5	36
57	Thermally altered marine dissolved organic matter in hydrothermal fluids. <i>Organic Geochemistry</i> , 2017 , 110, 73-86	3.1	35
56	Isotopic composition of oceanic dissolved black carbon reveals non-riverine source. <i>Nature Communications</i> , 2019 , 10, 5064	17.4	35
55	Seasonal variability of organic matter composition in an Alaskan glacier outflow: insights into glacier carbon sources. <i>Environmental Research Letters</i> , 2014 , 9, 055005	6.2	34
54	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	3.7	33
53	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	3.7	33
52	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	2.9	32
51	Bioavailability and molecular composition of dissolved organic matter from a diffuse hydrothermal system. <i>Marine Chemistry</i> , 2015 , 177, 257-266	3.7	31
50	Photochemical Alteration of Dissolved Organic Sulfur from Sulfidic Porewater. <i>Environmental Science & Technology</i> , 2017 , 51, 14144-14154	10.3	25
49	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	4.4	25
48	Spatial Variation in the Origin of Dissolved Organic Carbon in Snow on the Juneau Icefield, Southeast Alaska. <i>Environmental Science & Technology</i> , 2015 , 49, 11492-9	10.3	24
47	<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	2.5	24
46	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	3.7	22

45	ICBM-OCEAN: Processing Ultrahigh-Resolution Mass Spectrometry Data of Complex Molecular Mixtures. <i>Analytical Chemistry</i> , 2020 , 92, 6832-6838	7.8	21
44	Watershed Glacier Coverage Influences Dissolved Organic Matter Biogeochemistry in Coastal Watersheds of Southeast Alaska. <i>Ecosystems</i> , 2014 , 17, 1014-1025	3.9	20
43	Aged dissolved organic carbon exported from rivers of the Tibetan Plateau. <i>PLoS ONE</i> , 2017 , 12, e0178166	3.9	19
42	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	2.6	19
41	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	2.6	17
40	Spectroscopic characterization of oceanic dissolved organic matter isolated by reverse osmosis coupled with electrodialysis. <i>Marine Chemistry</i> , 2015 , 177, 278-287	3.7	15
39	Characterization of dissolved organic material in the interstitial brine of Lake Vida, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 183, 63-78	5.5	15
38	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	3.7	15
37	Carbonaceous matter in the atmosphere and glaciers of the Himalayas and the Tibetan plateau: An investigative review. <i>Environment International</i> , 2021 , 146, 106281	12.9	14
36	Interstorm Variability in the Biolability of Tree-Derived Dissolved Organic Matter (Tree-DOM) in Throughfall and Stemflow. <i>Forests</i> , 2018 , 9, 236	2.8	14
35	Source Switching Maintains Dissolved Organic Matter Chemostasis Across Discharge Levels in a Large Temperate River Network. <i>Ecosystems</i> , 2021 , 24, 227-247	3.9	13
34	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	3.7	11
33	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	4.8	10
32	Dissolved black carbon in throughfall and stemflow in a fire-managed longleaf pine woodland. <i>Biogeochemistry</i> , 2019 , 146, 191-207	3.8	10
31	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	12.8	10
30	Dissolved organic matter sources in glacierized watersheds delineated through compositional and carbon isotopic modeling. <i>Limnology and Oceanography</i> , 2021 , 66, 438-451	4.8	8
29	Photo-lability of deep ocean dissolved black carbon		7
28	A carbon for every nitrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10736-8	11.5	6

27	Enhanced Dissolved Organic Matter Recovery from Saltwater Samples with Electrodialysis. <i>Aquatic Geochemistry</i> , 2016 , 22, 555-572	1.7	6
26	Questions remain about the biolability of dissolved black carbon along the combustion continuum. <i>Nature Communications</i> , 2021 , 12, 4281	17.4	6
25	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	3.7	5
24	Du Feu l'Eau: Source and Flux of Dissolved Black Carbon From the Congo River. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006560	5.9	5
23	The evolution of stream dissolved organic matter composition following glacier retreat in coastal watersheds of southeast Alaska. <i>Biogeochemistry</i> , 1	3.8	5
22	Comment on "Dissolved organic sulfur in the ocean: Biogeochemistry of a petagram inventory". <i>Science</i> , 2017 , 356, 813	33.3	4
21	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	2.6	4
20	Geochemistry of the Congo River, estuary, and plume 554-583		4
19	El Niño-Driven Dry Season Flushing Enhances Dissolved Organic Matter Export From a Subtropical Watershed. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089877	4.9	4
18	LINKING OPTICAL AND CHEMICAL PROPERTIES OF DISSOLVED ORGANIC MATTER IN NATURAL WATERS. <i>Limnology and Oceanography Bulletin</i> , 2013 , 22, 78-82	0.9	3
17	Key Questions on the Evaporation and Transport of Intercepted Precipitation Open image in new window 2020 , 269-280		3
16	Throughfall and Stemflow: The Crowning Headwaters of the Aquatic Carbon Cycle Open image in new window 2020 , 121-132		3
15	Chemical Fouling Reduction of a Submersible Steel Spectrophotometer in Estuarine Environments Using a Sacrificial Zinc Anode. <i>Journal of Environmental Quality</i> , 2015 , 44, 1321-5	3.4	2
14	Carbon monoxide apparent quantum yields and photoproduction in the estuary Tyne		2
13	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	3.3	2
12	Drivers of Organic Molecular Signatures in the Amazon River. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2021GB006938	5.9	2
11	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	5.5	2
10	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	3.7	2

9	Export of photolabile and photoprivable dissolved organic carbon from the Connecticut River. <i>Aquatic Sciences</i> , 2021 , 83, 1	2.5	2
8	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	3.3	2
7	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	3.7	2
6	A dissolved organic carbon (DOC) analyzer capable of detecting sub-M DOC differences in natural fresh waters: A proof of concept study. <i>Limnology and Oceanography: Methods</i> , 2018 , 16, 309-321	2.6	1
5	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	3.7	1
4	Non-conservative behavior of dissolved organic carbon in a Georgia salt marsh creek indicates summer outwelling. <i>Estuarine, Coastal and Shelf Science</i> , 2022 , 265, 107709	2.9	0
3	Predicting dissolved organic carbon concentration in a dynamic salt marsh creek via machine learning. <i>Limnology and Oceanography: Methods</i> , 2021 , 19, 81-95	2.6	0
2	Assessing inputs of aquaculture-derived nutrients to streams using dissolved organic matter fluorescence. <i>Science of the Total Environment</i> , 2021 , 807, 150785	10.2	0
1	Does Photomineralization of Dissolved Organics Matter in Temperate Rivers?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2021JG006402	3.7	0