

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.

111 papers	13,783 citations	52 h-index	117 g-index
125 ext. papers	16,645 ext. citations	4.9 avg, IF	6.87 L-index

#	Paper	IF	Citations
111	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. <i>Limnology and Oceanography: Methods</i> , 2008 , 6, 572-579	2.6	1436
110	Tracing dissolved organic matter in aquatic environments using a new approach to fluorescence spectroscopy. <i>Marine Chemistry</i> , 2003 , 82, 239-254	3.7	1296
109	Fluorescence spectroscopy and multi-way techniques. PARAFAC. <i>Analytical Methods</i> , 2013 , 5, 6557	3.2	862
108	Resolving the variability in dissolved organic matter fluorescence in a temperate estuary and its catchment using PARAFAC analysis. <i>Limnology and Oceanography</i> , 2005 , 50, 686-697	4.8	703
107	Fluorescence intensity calibration using the Raman scatter peak of water. <i>Applied Spectroscopy</i> , 2009 , 63, 936-40	3.1	633
106	Distinguishing between terrestrial and autochthonous organic matter sources in marine environments using fluorescence spectroscopy. <i>Marine Chemistry</i> , 2008 , 108, 40-58	3.7	517
105	OpenFluor: an online spectral library of auto-fluorescence by organic compounds in the environment. <i>Analytical Methods</i> , 2014 , 6, 658-661	3.2	422
104	Measurement of dissolved organic matter fluorescence in aquatic environments: an interlaboratory comparison. <i>Environmental Science & Technology</i> , 2010 , 44, 9405-12	10.3	418
103	Tracing the production and degradation of autochthonous fractions of dissolved organic matter by fluorescence analysis. <i>Limnology and Oceanography</i> , 2005 , 50, 1415-1426	4.8	411
102	A critical assessment of visual identification of marine microplastic using Raman spectroscopy for analysis improvement. <i>Marine Pollution Bulletin</i> , 2015 , 100, 82-91	6.7	407
101	Abundance, size and polymer composition of marine microplastics in the Atlantic Ocean and their modelled vertical distribution. <i>Marine Pollution Bulletin</i> , 2015 , 100, 70-81	6.7	385
100	Handling of Rayleigh and Raman scatter for PARAFAC modeling of fluorescence data using interpolation. <i>Journal of Chemometrics</i> , 2006 , 20, 99-105	1.6	344
99	Optical Properties and Signatures of Chromophoric Dissolved Organic Matter (CDOM) in Danish Coastal Waters. <i>Estuarine, Coastal and Shelf Science</i> , 2000 , 51, 267-278	2.9	337
98	Global trends in the fluorescence characteristics and distribution of marine dissolved organic matter. <i>Marine Chemistry</i> , 2011 , 126, 139-148	3.7	244
97	Photochemical production of ammonium and transformation of dissolved organic matter in the Baltic Sea. <i>Marine Chemistry</i> , 2007 , 104, 227-240	3.7	222
96	Controls of dissolved organic matter quality: evidence from a large-scale boreal lake survey. <i>Global Change Biology</i> , 2014 , 20, 1101-14	11.4	207
95	Experimental insights into the importance of aquatic bacterial community composition to the degradation of dissolved organic matter. <i>ISME Journal</i> , 2016 , 10, 533-45	11.9	197

94	The supply and characteristics of colored dissolved organic matter (CDOM) in the Arctic Ocean: Pan Arctic trends and differences. <i>Marine Chemistry</i> , 2011 , 124, 108-118	3.7	191
93	Characteristics of dissolved organic matter in Baltic coastal sea ice: allochthonous or autochthonous origins?. <i>Environmental Science & Technology</i> , 2007 , 41, 7273-9	10.3	187
92	Inner filter correction of dissolved organic matter fluorescence. <i>Limnology and Oceanography: Methods</i> , 2013 , 11, 616-630	2.6	167
91	Dissolved organic matter sources in large Arctic rivers. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 94, 217-233	3.7	162
90	The optics of chromophoric dissolved organic matter (CDOM) in the Greenland Sea: An algorithm for differentiation between marine and terrestrially derived organic matter. <i>Limnology and Oceanography</i> , 2001 , 46, 2087-2093	4.8	144
89	Behaviour of the optical properties of coloured dissolved organic matter under conservative mixing. <i>Estuarine, Coastal and Shelf Science</i> , 2003 , 57, 973-979	2.9	133
88	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. <i>Limnology and Oceanography: Methods</i> , 2008 , 6, 572-579	2.6	128
87	A potential approach for monitoring drinking water quality from groundwater systems using organic matter fluorescence as an early warning for contamination events. <i>Water Research</i> , 2011 , 45, 6030-8	12.5	126
86	Turnover time of fluorescent dissolved organic matter in the dark global ocean. <i>Nature Communications</i> , 2015 , 6, 5986	17.4	121
85	Linking the chemical and optical properties of dissolved organic matter in the Baltic-North Sea transition zone to differentiate three allochthonous inputs. <i>Marine Chemistry</i> , 2011 , 126, 281-294	3.7	118
84	The use of PARAFAC modeling to trace terrestrial dissolved organic matter and fingerprint water masses in coastal Canadian Arctic surface waters. <i>Journal of Geophysical Research</i> , 2009 , 114,		111
83	Extraction of microplastic from biota: recommended acidic digestion destroys common plastic polymers. <i>ICES Journal of Marine Science</i> , 2017 , 74, 326-331	2.7	109
82	The conservative and non-conservative behavior of chromophoric dissolved organic matter in Chinese estuarine waters. <i>Marine Chemistry</i> , 2007 , 107, 357-366	3.7	103
81	Modeling absorption by CDOM in the Baltic Sea from season, salinity and chlorophyll. <i>Marine Chemistry</i> , 2006 , 101, 1-11	3.7	100
80	Global distribution of dissolved organic matter along the aquatic continuum: Across rivers, lakes and oceans. <i>Science of the Total Environment</i> , 2017 , 609, 180-191	10.2	99
79	Bioavailability of riverine dissolved organic matter in three Baltic Sea estuaries and the effect of catchment land use. <i>Biogeosciences</i> , 2013 , 10, 6969-6986	4.6	99
78	Assessing the dynamics of chromophoric dissolved organic matter in a subtropical estuary using parallel factor analysis. <i>Marine Chemistry</i> , 2011 , 124, 125-133	3.7	96
77	Variations in high-latitude riverine fluorescent dissolved organic matter: A comparison of large Arctic rivers. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1689-1702	3.7	84

76	Fate of terrigenous dissolved organic matter (DOM) in estuaries: Aggregation and bioavailability. <i>Ophelia</i> , 2003 , 57, 161-176		84
75	Characterising organic matter in recirculating aquaculture systems with fluorescence EEM spectroscopy. <i>Water Research</i> , 2015 , 83, 112-20	12.5	83
74	Dissolved organic matter (DOM) export to a temperate estuary: seasonal variations and implications of land use. <i>Estuaries and Coasts</i> , 2006 , 29, 388-400	2.8	79
73	The effect of evapoconcentration on dissolved organic carbon concentration and quality in lakes of SW Greenland. <i>Freshwater Biology</i> , 2007 , 52, 280-289	3.1	78
72	Lake metabolism scales with lake morphometry and catchment conditions. <i>Aquatic Sciences</i> , 2012 , 74, 155-169	2.5	75
71	Assessment of drinking water quality at the tap using fluorescence spectroscopy. <i>Water Research</i> , 2017 , 125, 1-10	12.5	73
70	Fluorescence Quantum Yields of Natural Organic Matter and Organic Compounds: Implications for the Fluorescence-based Interpretation of Organic Matter Composition. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	71
69	Using fluorescence to characterize dissolved organic matter in Antarctic sea ice brines. <i>Journal of Geophysical Research</i> , 2011 , 116,		71
68	The One-Sample PARAFAC Approach Reveals Molecular Size Distributions of Fluorescent Components in Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2017 , 51, 11900-11908	10.3	66
67	The Optical Properties of DOM in the Ocean 2015 , 481-508		62
66	Photochemistry Illuminates Ubiquitous Organic Matter Fluorescence Spectra. <i>Environmental Science & Technology</i> , 2018 , 52, 11243-11250	10.3	62
65	Characteristics of colored dissolved organic matter (CDOM) in the Arctic outflow in the Fram Strait: Assessing the changes and fate of terrigenous CDOM in the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		61
64	Tracing the long-term microbial production of recalcitrant fluorescent dissolved organic matter in seawater. <i>Geophysical Research Letters</i> , 2014 , 41, 2481-2488	4.9	60
63	The characteristics of dissolved organic matter (DOM) and chromophoric dissolved organic matter (CDOM) in Antarctic sea ice. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 1075-1091	2.3	58
62	Using fluorescent dissolved organic matter to trace and distinguish the origin of Arctic surface waters. <i>Scientific Reports</i> , 2016 , 6, 33978	4.9	55
61	Seasonal dynamics and conservative mixing of dissolved organic matter in the temperate eutrophic estuary Horsens Fjord. <i>Estuarine, Coastal and Shelf Science</i> , 2011 , 92, 376-388	2.9	53
60	Oceanographic regime shift during 1997 in Disko Bay, Western Greenland. <i>Limnology and Oceanography</i> , 2012 , 57, 634-644	4.8	53
59	Linking CDOM spectral absorption to dissolved organic carbon concentrations and loadings in boreal estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2012 , 111, 107-117	2.9	51

58	Tracing water mass mixing in the Baltic-North Sea transition zone using the optical properties of coloured dissolved organic matter. <i>Estuarine, Coastal and Shelf Science</i> , 2010 , 87, 156-162	2.9	51
57	Changes in fulvic acid redox state through the oxycline of a permanently ice-covered Antarctic lake. <i>Aquatic Sciences</i> , 2004 , 66, 27-46	2.5	51
56	From Fresh to Marine Waters: Characterization and Fate of Dissolved Organic Matter in the Lena River Delta Region, Siberia. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	49
55	The influence of glacial melt water on bio-optical properties in two contrasting Greenlandic fjords. <i>Estuarine, Coastal and Shelf Science</i> , 2015 , 163, 72-83	2.9	49
54	The freshwater composition of the Fram Strait outflow derived from a decade of tracer measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		49
53	The Effect of Increased Loads of Dissolved Organic Matter on Estuarine Microbial Community Composition and Function. <i>Frontiers in Microbiology</i> , 2017 , 8, 351	5.7	48
52	A model of extracellular enzymes in free-living microbes: which strategy pays off?. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 7385-93	4.8	44
51	The Transpolar Drift as a Source of Riverine and Shelf-Derived Trace Elements to the Central Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2019JC015920	3.3	42
50	Processing of humic-rich riverine dissolved organic matter by estuarine bacteria: effects of predegradation and inorganic nutrients. <i>Aquatic Sciences</i> , 2014 , 76, 451-463	2.5	41
49	Monitoring organic loading to swimming pools by fluorescence excitation-emission matrix with parallel factor analysis (PARAFAC). <i>Water Research</i> , 2011 , 45, 2306-14	12.5	41
48	Classification and Quantification of Microplastics (. <i>Analytical Chemistry</i> , 2020 , 92, 13724-13733	7.8	37
47	Evidence of local and regional freshening of Northeast Greenland coastal waters. <i>Scientific Reports</i> , 2017 , 7, 13183	4.9	35
46	Investigating Fluorescent Organic-Matter Composition as a Key Predictor for Arsenic Mobility in Groundwater Aquifers. <i>Environmental Science & Technology</i> , 2018 , 52, 13027-13036	10.3	35
45	Contrasting optical properties of surface waters across the Fram Strait and its potential biological implications. <i>Journal of Marine Systems</i> , 2015 , 143, 62-72	2.7	34
44	Bioavailability and radiocarbon age of fluvial dissolved organic matter (DOM) from a northern peatland-dominated catchment: effect of land-use change. <i>Aquatic Sciences</i> , 2014 , 76, 393-404	2.5	34
43	Selective incorporation of dissolved organic matter (DOM) during sea ice formation. <i>Marine Chemistry</i> , 2013 , 155, 148-157	3.7	33
42	Drivers of fluorescent dissolved organic matter in the global epipelagic ocean. <i>Limnology and Oceanography</i> , 2016 , 61, 1101-1119	4.8	33
41	Chemometric Analysis of Organic Matter Fluorescence339-375		31

40	Phytoplankton growth and microzooplankton grazing along a sub-Arctic fjord (Godthåbsfjord, west Greenland). <i>Marine Ecology - Progress Series</i> , 2011 , 442, 11-22	2.6	31
39	Effect of sea-ice melt on inherent optical properties and vertical distribution of solar radiant heating in Arctic surface waters. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 7028-7039	3.3	30
38	Carbon Bioavailability in a High Arctic Fjord Influenced by Glacial Meltwater, NE Greenland. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	29
37	Emerging patterns in the global distribution of dissolved organic matter fluorescence. <i>Analytical Methods</i> , 2019 , 11, 888-893	3.2	28
36	Shifts in the Source and Composition of Dissolved Organic Matter in Southwest Greenland Lakes Along a Regional Hydro-climatic Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 3431-3445	3.7	28
35	Recent decrease in DOC concentrations in Arctic lakes of southwest Greenland. <i>Geophysical Research Letters</i> , 2015 , 42, 6703-6709	4.9	25
34	An approach to estimate the freshwater contribution from glacial melt and precipitation in East Greenland shelf waters using colored dissolved organic matter (CDOM). <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 1107-1117	3.3	24
33	Unraveling the size-dependent optical properties of dissolved organic matter. <i>Limnology and Oceanography</i> , 2018 , 63, 588-601	4.8	23
32	The Molecular Fingerprint of Fluorescent Natural Organic Matter Offers Insight into Biogeochemical Sources and Diagenetic State. <i>Analytical Chemistry</i> , 2018 , 90, 14188-14197	7.8	22
31	Quantifying the impact of solid-phase extraction on chromophoric dissolved organic matter composition. <i>Marine Chemistry</i> , 2018 , 207, 33-41	3.7	22
30	Ecological effects of scrubber water discharge on coastal plankton: Potential synergistic effects of contaminants reduce survival and feeding of the copepod <i>Acartia tonsa</i> . <i>Marine Environmental Research</i> , 2017 , 129, 374-385	3.3	21
29	Seasonal contribution of terrestrial organic matter and biological oxygen demand to the Baltic Sea from three contrasting river catchments. <i>Biogeosciences</i> , 2014 , 11, 3409-3419	4.6	21
28	Interactions between algal-bacterial populations and trace metals in fjord surface waters during a nutrient-stimulated summer bloom. <i>Limnology and Oceanography</i> , 2005 , 50, 1855-1871	4.8	19
27	Identifying Drivers of Seasonality in Lena River Biogeochemistry and Dissolved Organic Matter Fluxes. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	18
26	Physical and bacterial controls on inorganic nutrients and dissolved organic carbon during a sea ice growth and decay experiment. <i>Marine Chemistry</i> , 2014 , 166, 59-69	3.7	17
25	Biological Origins and Fate of Fluorescent Dissolved Organic Matter in Aquatic Environments	278-300	17
24	Linkages between the circulation and distribution of dissolved organic matter in the White Sea, Arctic Ocean. <i>Continental Shelf Research</i> , 2016 , 119, 1-13	2.4	16
23	Changes in the composition and bioavailability of dissolved organic matter during sea ice formation. <i>Limnology and Oceanography</i> , 2015 , 60, 817-830	4.8	15

22	Calibration, standardization, and quantitative analysis of multidimensional fluorescence (MDF) measurements on complex mixtures (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2017 , 89, 1849-1870	2.1	12
21	Microbially-Mediated Fluorescent Organic Matter Transformations in the Deep Ocean. Do the Chemical Precursors Matter?. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	11
20	Coupling Bacterioplankton Populations and Environment to Community Function in Coastal Temperate Waters. <i>Frontiers in Microbiology</i> , 2016 , 7, 1533	5.7	11
19	Radiocarbon dating of fluvial organic matter reveals land-use impacts in boreal peatlands. <i>Environmental Science & Technology</i> , 2014 , 48, 12543-51	10.3	10
18	The Influence of Sediment-Derived Dissolved Organic Matter in the Vistula River Estuary/Gulf of Gdansk. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 115-126	3.7	10
17	Mass and UV-visible spectral fingerprints of dissolved organic matter: sources and reactivity. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	9
16	Production and transformation of dissolved neutral sugars and amino acids by bacteria in seawater. <i>Biogeosciences</i> , 2014 , 11, 5349-5363	4.6	9
15	Biological transformation of Arctic dissolved organic matter in a NE Greenland fjord. <i>Limnology and Oceanography</i> , 2019 , 64, 1014-1033	4.8	8
14	Origin and fate of dissolved organic matter in four shallow Baltic Sea estuaries. <i>Biogeochemistry</i> , 2021 , 154, 385-403	3.8	7
13	Spectral signature of suspended fine particulate material on light absorption properties of CDOM. <i>Marine Chemistry</i> , 2017 , 196, 98-106	3.7	6
12	Changes in distributional patterns of plaice <i>Pleuronectes platessa</i> in the central and eastern North Sea; do declining nutrient loadings play a role?. <i>Journal of Sea Research</i> , 2017 , 127, 164-172	1.9	5
11	Insights into the origins, molecular characteristics and distribution of iron-binding ligands in the Arctic Ocean. <i>Marine Chemistry</i> , 2021 , 231, 103936	3.7	5
10	Variability of the Pacific-Derived Arctic Water Over the Southeastern Wandel Sea Shelf (Northeast Greenland) in 2015-2016. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 349-373	3.3	5
9	Insights Into Water Mass Origins in the Central Arctic Ocean From In-Situ Dissolved Organic Matter Fluorescence. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017407	3.3	4
8	Sediment alkaline-extracted organic matter (AEOM) fluorescence: An archive of Holocene marine organic matter origins. <i>Science of the Total Environment</i> , 2019 , 676, 298-304	10.2	2
7	Bioavailability of riverine dissolved organic matter in three Baltic Sea estuaries and the effect of catchment land-use		2
6	Bacterial production and transformation of dissolved neutral sugars and amino acids in seawater		2
5	A Decade of Annual Arctic DOC Export With Polar Surface Water in the East Greenland Current. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089686	4.9	2

4	FluoRAS Sensor - Online organic matter for optimising recirculating aquaculture systems. <i>Research Ideas and Outcomes</i> , 4, e23957	2.5	1
3	Terrestrial Dissolved Organic Matter Mobilized From Eroding Permafrost Controls Microbial Community Composition and Growth in Arctic Coastal Zones. <i>Frontiers in Earth Science</i> , 2021, 9,	3.5	1
2	Examples of unwanted variation when characterising dissolved organic matter using direct injection electrospray mass spectrometry and chemometrics. <i>Analytical Methods</i> , 2018, 10, 2636-2646	3.2	1
1	Anthropogenic U and U in the Baltic Sea: Distributions, source terms, and budgets.. <i>Water Research</i> , 2021, 210, 117987	12.5	0