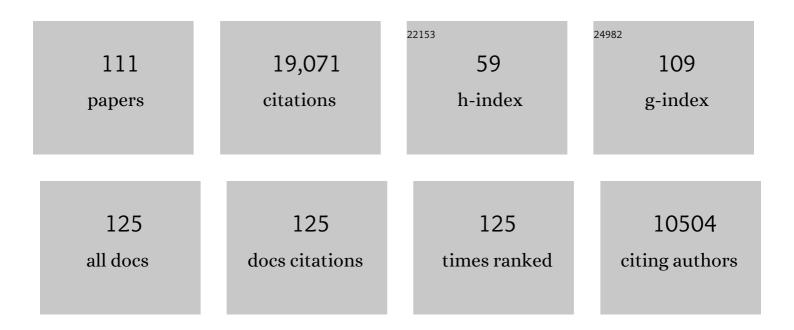
Ca Stedmon

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. Limnology and Oceanography: Methods, 2008, 6, 572-579.	2.0	1,969
2	Tracing dissolved organic matter in aquatic environments using a new approach to fluorescence spectroscopy. Marine Chemistry, 2003, 82, 239-254.	2.3	1,598
3	Fluorescence spectroscopy and multi-way techniques. PARAFAC. Analytical Methods, 2013, 5, 6557.	2.7	1,349
4	Resolving the variability in dissolved organic matter fluorescence in a temperate estuary and its catchment using PARAFAC analysis. Limnology and Oceanography, 2005, 50, 686-697.	3.1	908
5	Fluorescence Intensity Calibration Using the Raman Scatter Peak of Water. Applied Spectroscopy, 2009, 63, 936-940.	2.2	826
6	OpenFluor– an online spectral library of auto-fluorescence by organic compounds in the environment. Analytical Methods, 2014, 6, 658-661.	2.7	676
7	Distinguishing between terrestrial and autochthonous organic matter sources in marine environments using fluorescence spectroscopy. Marine Chemistry, 2008, 108, 40-58.	2.3	654
8	Measurement of Dissolved Organic Matter Fluorescence in Aquatic Environments: An Interlaboratory Comparison. Environmental Science & Technology, 2010, 44, 9405-9412.	10.0	562
9	A critical assessment of visual identification of marine microplastic using Raman spectroscopy for analysis improvement. Marine Pollution Bulletin, 2015, 100, 82-91.	5.0	561
10	Abundance, size and polymer composition of marine microplastics ≥ 10 μm in the Atlantic Ocean and their modelled vertical distribution. Marine Pollution Bulletin, 2015, 100, 70-81.	5.0	560
11	Tracing the production and degradation of autochthonous fractions of dissolved organic matter by fluorescence analysis. Limnology and Oceanography, 2005, 50, 1415-1426.	3.1	513
12	Handling of Rayleigh and Raman scatter for PARAFAC modeling of fluorescence data using interpolation. Journal of Chemometrics, 2006, 20, 99-105.	1.3	434
13	Experimental insights into the importance of aquatic bacterial community composition to the degradation of dissolved organic matter. ISME Journal, 2016, 10, 533-545.	9.8	418
14	Optical Properties and Signatures of Chromophoric Dissolved Organic Matter (CDOM) in Danish Coastal Waters. Estuarine, Coastal and Shelf Science, 2000, 51, 267-278.	2.1	406
15	Global trends in the fluorescence characteristics and distribution of marine dissolved organic matter. Marine Chemistry, 2011, 126, 139-148.	2.3	315
16	Controls of dissolved organic matter quality: evidence from a largeâ€scale boreal lake survey. Global Change Biology, 2014, 20, 1101-1114.	9.5	287
17	Photochemical production of ammonium and transformation of dissolved organic matter in the Baltic Sea. Marine Chemistry, 2007, 104, 227-240.	2.3	268
18	Inner filter correction of dissolved organic matter fluorescence. Limnology and Oceanography: Methods, 2013, 11, 616-630.	2.0	244

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19	The supply and characteristics of colored dissolved organic matter (CDOM) in the Arctic Ocean: Pan Arctic trends and differences. Marine Chemistry, 2011, 124, 108-118.	2.3	240
20	Characteristics of Dissolved Organic Matter in Baltic Coastal Sea Ice:  Allochthonous or Autochthonous Origins?. Environmental Science & Technology, 2007, 41, 7273-7279.	10.0	233
21	Turnover time of fluorescent dissolved organic matter in the dark global ocean. Nature Communications, 2015, 6, 5986.	12.8	209
22	Dissolved organic matter sources in large Arctic rivers. Geochimica Et Cosmochimica Acta, 2012, 94, 217-237.	3.9	207
23	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. Limnology and Oceanography: Methods, 2008, 6, 572-579.	2.0	189
24	The optics of chromophoric dissolved organic matter (CDOM) in the Greenland Sea: An algorithm for differentiation between marine and terrestrially derived organic matter. Limnology and Oceanography, 2001, 46, 2087-2093.	3.1	184
25	Extraction of microplastic from biota: recommended acidic digestion destroys common plastic polymers. ICES Journal of Marine Science, 2017, 74, 326-331.	2.5	174
26	Global distribution of dissolved organic matter along the aquatic continuum: Across rivers, lakes and oceans. Science of the Total Environment, 2017, 609, 180-191.	8.0	166
27	Behaviour of the optical properties of coloured dissolved organic matter under conservative mixing. Estuarine, Coastal and Shelf Science, 2003, 57, 973-979.	2.1	159
28	A potential approach for monitoring drinking water quality from groundwater systems using organic matter fluorescence as an early warning for contamination events. Water Research, 2011, 45, 6030-6038.	11.3	159
29	Linking the chemical and optical properties of dissolved organic matter in the Baltic–North Sea transition zone to differentiate three allochthonous inputs. Marine Chemistry, 2011, 126, 281-294.	2.3	150
30	The use of PARAFAC modeling to trace terrestrial dissolved organic matter and fingerprint water masses in coastal Canadian Arctic surface waters. Journal of Geophysical Research, 2009, 114, .	3.3	138
31	Modeling absorption by CDOM in the Baltic Sea from season, salinity and chlorophyll. Marine Chemistry, 2006, 101, 1-11.	2.3	136
32	The conservative and non-conservative behavior of chromophoric dissolved organic matter in Chinese estuarine waters. Marine Chemistry, 2007, 107, 357-366.	2.3	130
33	Variations in highâ€latitude riverine fluorescent dissolved organic matter: A comparison of large Arctic rivers. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1689-1702.	3.0	124
34	Bioavailability of riverine dissolved organic matter in three Baltic Sea estuaries and the effect of catchment land use. Biogeosciences, 2013, 10, 6969-6986.	3.3	122
35	The Effect of Increased Loads of Dissolved Organic Matter on Estuarine Microbial Community Composition and Function. Frontiers in Microbiology, 2017, 8, 351.	3.5	119
36	Assessing the dynamics of chromophoric dissolved organic matter in a subtropical estuary using parallel factor analysis. Marine Chemistry, 2011, 124, 125-133.	2.3	116

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37	Fate of terrigenous dissolved organic matter (DOM) in estuaries: Aggregation and bioavailability. Ophelia, 2003, 57, 161-176.	0.3	114
38	Characterising organic matter in recirculating aquaculture systems with fluorescence EEM spectroscopy. Water Research, 2015, 83, 112-120.	11.3	114
39	The One-Sample PARAFAC Approach Reveals Molecular Size Distributions of Fluorescent Components in Dissolved Organic Matter. Environmental Science & Technology, 2017, 51, 11900-11908.	10.0	113
40	Photochemistry Illuminates Ubiquitous Organic Matter Fluorescence Spectra. Environmental Science & Technology, 2018, 52, 11243-11250.	10.0	113
41	Assessment of drinking water quality at the tap using fluorescence spectroscopy. Water Research, 2017, 125, 1-10.	11.3	104
42	Fluorescence Quantum Yields of Natural Organic Matter and Organic Compounds: Implications for the Fluorescence-based Interpretation of Organic Matter Composition. Frontiers in Marine Science, 2015, 2, .	2.5	103
43	The Optical Properties of DOM in the Ocean. , 2015, , 481-508.		103
44	The effect of evapoconcentration on dissolved organic carbon concentration and quality in lakes of SW Greenland. Freshwater Biology, 2007, 52, 280-289.	2.4	99
45	Using fluorescence to characterize dissolved organic matter in Antarctic sea ice brines. Journal of Geophysical Research, 2011, 116, .	3.3	95
46	Lake metabolism scales with lake morphometry and catchment conditions. Aquatic Sciences, 2012, 74, 155-169.	1.5	94
47	Dissolved organic matter (DOM) export to a temperate estuary: seasonal variations and implications of land use. Estuaries and Coasts, 2006, 29, 388-400.	2.2	91
48	Classification and Quantification of Microplastics (<100 μm) Using a Focal Plane Array–Fourier Transform Infrared Imaging System and Machine Learning. Analytical Chemistry, 2020, 92, 13724-13733.	6.5	91
49	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. Journal of Geophysical Research, 2012, 117, .	3.3	87
50	Using fluorescent dissolved organic matter to trace and distinguish the origin of Arctic surface waters. Scientific Reports, 2016, 6, 33978.	3.3	85
51	Tracing the long-term microbial production of recalcitrant fluorescent dissolved organic matter in seawater. Geophysical Research Letters, 2014, 41, 2481-2488.	4.0	83
52	The Transpolar Drift as a Source of Riverine and Shelfâ€Derived Trace Elements to the Central Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015920.	2.6	80
53	From Fresh to Marine Waters: Characterization and Fate of Dissolved Organic Matter in the Lena River Delta Region, Siberia. Frontiers in Marine Science, 2015, 2, .	2.5	77
54	A Model of Extracellular Enzymes in Free-Living Microbes: Which Strategy Pays Off?. Applied and Environmental Microbiology, 2015, 81, 7385-7393.	3.1	74

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55	Seasonal dynamics and conservative mixing of dissolved organic matter in the temperate eutrophic estuary Horsens Fjord. Estuarine, Coastal and Shelf Science, 2011, 92, 376-388.	2.1	72
56	The influence of glacial melt water on bio-optical properties in two contrasting Greenlandic fjords. Estuarine, Coastal and Shelf Science, 2015, 163, 72-83.	2.1	72
57	The characteristics of dissolved organic matter (DOM) and chromophoric dissolved organic matter (CDOM) in Antarctic sea ice. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1075-1091.	1.4	71
58	Tracing water mass mixing in the Baltic–North Sea transition zone using the optical properties of coloured dissolved organic matter. Estuarine, Coastal and Shelf Science, 2010, 87, 156-162.	2.1	69
59	Linking CDOM spectral absorption to dissolved organic carbon concentrations and loadings in boreal estuaries. Estuarine, Coastal and Shelf Science, 2012, 111, 107-117.	2.1	68
60	Oceanographic regime shift during 1997 in Disko Bay, Western Greenland. Limnology and Oceanography, 2012, 57, 634-644.	3.1	64
61	Investigating Fluorescent Organic-Matter Composition as a Key Predictor for Arsenic Mobility in Groundwater Aquifers. Environmental Science & amp; Technology, 2018, 52, 13027-13036.	10.0	64
62	The freshwater composition of the Fram Strait outflow derived from a decade of tracer measurements. Journal of Geophysical Research, 2012, 117, .	3.3	62
63	Evidence of local and regional freshening of Northeast Greenland coastal waters. Scientific Reports, 2017, 7, 13183.	3.3	57
64	Processing of humic-rich riverine dissolved organic matter by estuarine bacteria: effects of predegradation and inorganic nutrients. Aquatic Sciences, 2014, 76, 451-463.	1.5	56
65	Drivers of fluorescent dissolved organic matter in the global epipelagic ocean. Limnology and Oceanography, 2016, 61, 1101-1119.	3.1	53
66	Emerging patterns in the global distribution of dissolved organic matter fluorescence. Analytical Methods, 2019, 11, 888-893.	2.7	52
67	Changes in fulvic acid redox state through the oxycline of a permanently ice-covered Antarctic lake. Aquatic Sciences, 2004, 66, 27-46.	1.5	51
68	Contrasting optical properties of surface waters across the Fram Strait and its potential biological implications. Journal of Marine Systems, 2015, 143, 62-72.	2.1	51
69	Monitoring organic loading to swimming pools by fluorescence excitation–emission matrix with parallel factor analysis (PARAFAC). Water Research, 2011, 45, 2306-2314.	11.3	50
70	Chemometric Analysis of Organic Matter Fluorescence. , 2014, , 339-375.		49
71	Carbon Bioavailability in a High Arctic Fjord Influenced by Glacial Meltwater, NE Greenland. Frontiers in Marine Science, 2017, 4, .	2.5	49
72	Quantifying the impact of solid-phase extraction on chromophoric dissolved organic matter composition. Marine Chemistry, 2018, 207, 33-41.	2.3	48

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73	Bioavailability and radiocarbon age of fluvial dissolved organic matter (DOM) from a northern peatland-dominated catchment: effect of land-use change. Aquatic Sciences, 2014, 76, 393-404.	1.5	46
74	The Molecular Fingerprint of Fluorescent Natural Organic Matter Offers Insight into Biogeochemical Sources and Diagenetic State. Analytical Chemistry, 2018, 90, 14188-14197.	6.5	45
75	Identifying Drivers of Seasonality in Lena River Biogeochemistry and Dissolved Organic Matter Fluxes. Frontiers in Environmental Science, 2020, 8, .	3.3	44
76	Shifts in the Source and Composition of Dissolved Organic Matter in Southwest Greenland Lakes Along a Regional Hydro limatic Gradient. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3431-3445.	3.0	43
77	Selective incorporation of dissolved organic matter (DOM) during sea ice formation. Marine Chemistry, 2013, 155, 148-157.	2.3	41
78	Effect of seaâ€ice melt on inherent optical properties and vertical distribution of solar radiant heating in Arctic surface waters. Journal of Geophysical Research: Oceans, 2015, 120, 7028-7039.	2.6	39
79	Unraveling the sizeâ€dependent optical properties of dissolved organic matter. Limnology and Oceanography, 2018, 63, 588-601.	3.1	36
80	An approach to estimate the freshwater contribution from glacial melt and precipitation in <scp>E</scp> ast <scp>G</scp> reenland shelf waters using colored dissolved organic matter (<scp>CDOM</scp>). Journal of Geophysical Research: Oceans, 2015, 120, 1107-1117.	2.6	34
81	Phytoplankton growth and microzooplankton grazing along a sub-Arctic fjord (Godthåbsfjord, west) Tj ETQq1	1 0,78431 1.9	14 rgBT /Overl
82	Ecological effects of scrubber water discharge on coastal plankton: Potential synergistic effects of contaminants reduce survival and feeding of the copepod Acartia tonsa. Marine Environmental Research, 2017, 129, 374-385.	2.5	32
83	Biological Origins and Fate of Fluorescent Dissolved Organic Matter in Aquatic Environments. , 2014, , 278-300.		27
84	Seasonal contribution of terrestrial organic matter and biological oxygen demand to the Baltic Sea from three contrasting river catchments. Biogeosciences, 2014, 11, 3409-3419.	3.3	26
85	Recent decrease in DOC concentrations in Arctic lakes of southwest Greenland. Geophysical Research Letters, 2015, 42, 6703-6709.	4.0	26
86	Interactions between algal-bacterial populations and trace metals in fjord surface waters during a nutrient-stimulated summer bloom. Limnology and Oceanography, 2005, 50, 1855-1871.	3.1	24
87	Changes in the composition and bioavailability of dissolved organic matter during sea ice formation. Limnology and Oceanography, 2015, 60, 817-830.	3.1	23
88	Linkages between the circulation and distribution of dissolved organic matter in the White Sea, Arctic Ocean. Continental Shelf Research, 2016, 119, 1-13.	1.8	22
89	Biological transformation of Arctic dissolved organic matter in a NE Greenland fjord. Limnology and Oceanography, 2019, 64, 1014-1033.	3.1	22
90	Physical and bacterial controls on inorganic nutrients and dissolved organic carbon during a sea ice growth and decay experiment. Marine Chemistry, 2014, 166, 59-69.	2.3	21

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91	Calibration, standardization, and quantitative analysis of multidimensional fluorescence (MDF) measurements on complex mixtures (IUPAC Technical Report). Pure and Applied Chemistry, 2017, 89, 1849-1870.	1.9	18
92	The Influence of Sedimentâ€Đerived Dissolved Organic Matter in the Vistula River Estuary/Gulf of Gdansk. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 115-126.	3.0	16
93	Origin and fate of dissolved organic matter in four shallow Baltic Sea estuaries. Biogeochemistry, 2021, 154, 385-403.	3.5	16
94	Mass and UV-visible spectral fingerprints of dissolved organic matter: sources and reactivity. Frontiers in Marine Science, 2015, 2, .	2.5	13
95	Microbially-Mediated Fluorescent Organic Matter Transformations in the Deep Ocean. Do the Chemical Precursors Matter?. Frontiers in Marine Science, 2015, 2, .	2.5	13
96	Coupling Bacterioplankton Populations and Environment to Community Function in Coastal Temperate Waters. Frontiers in Microbiology, 2016, 7, 1533.	3.5	13
97	Radiocarbon Dating of Fluvial Organic Matter Reveals Land-Use Impacts in Boreal Peatlands. Environmental Science & Technology, 2014, 48, 12543-12551.	10.0	12
98	Changes in distributional patterns of plaice Pleuronectes platessa in the central and eastern North Sea; do declining nutrient loadings play a role?. Journal of Sea Research, 2017, 127, 164-172.	1.6	12
99	Insights into the origins, molecular characteristics and distribution of iron-binding ligands in the Arctic Ocean. Marine Chemistry, 2021, 231, 103936.	2.3	12
100	Production and transformation of dissolved neutral sugars and amino acids by bacteria in seawater. Biogeosciences, 2014, 11, 5349-5363.	3.3	11
101	Spectral signature of suspended fine particulate material on light absorption properties of CDOM. Marine Chemistry, 2017, 196, 98-106.	2.3	10
102	Terrestrial Dissolved Organic Matter Mobilized From Eroding Permafrost Controls Microbial Community Composition and Growth in Arctic Coastal Zones. Frontiers in Earth Science, 2021, 9, .	1.8	10
103	Variability of the Pacificâ€Derived Arctic Water Over the Southeastern Wandel Sea Shelf (Northeast) Tj ETQq1 1	0.784314 2.6	rgBT /Overl
104	Insights Into Water Mass Origins in the Central Arctic Ocean From In‣itu Dissolved Organic Matter Fluorescence. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017407.	2.6	9
105	A Decade of Annual Arctic DOC Export With Polar Surface Water in the East Greenland Current. Geophysical Research Letters, 2020, 47, e2020GL089686.	4.0	5
106	Anthropogenic 236U and 233U in the Baltic Sea: Distributions, source terms, and budgets. Water Research, 2022, 210, 117987.	11.3	5
107	Sediment alkaline-extracted organic matter (AEOM) fluorescence: An archive of Holocene marine organic matter origins. Science of the Total Environment, 2019, 676, 298-304.	8.0	4
108	Estimation of Atlantic Water transit times in East Greenland fjords using a 233U-236U tracer approach. Chemical Geology, 2022, 607, 121007.	3.3	3

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109	Examples of unwanted variation when characterising dissolved organic matter using direct injection electrospray mass spectrometry and chemometrics. Analytical Methods, 2018, 10, 2636-2646.	2.7	1
110	FluoRAS Sensor - Online organic matter for optimising recirculating aquaculture systems. Research Ideas and Outcomes, 0, 4, e23957.	1.0	1
111	Substrate diversity affects carbon utilization rate and threshold concentration for uptake by natural bacterioplankton communities. Aquatic Microbial Ecology, 2022, 88, 95-108.	1.8	1