

# Ca Stedmon

## List of Publications by Year in Descending Order

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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	Anthropogenic U and U in the Baltic Sea: Distributions, source terms, and budgets.. <i>Water Research</i> , <b>2021</b> , 210, 117987	12.5	0
110	Terrestrial Dissolved Organic Matter Mobilized From Eroding Permafrost Controls Microbial Community Composition and Growth in Arctic Coastal Zones. <i>Frontiers in Earth Science</i> , <b>2021</b> , 9,	3.5	1
109	Insights into the origins, molecular characteristics and distribution of iron-binding ligands in the Arctic Ocean. <i>Marine Chemistry</i> , <b>2021</b> , 231, 103936	3.7	5
108	Insights Into Water Mass Origins in the Central Arctic Ocean From In-Situ Dissolved Organic Matter Fluorescence. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2021JC017407	3.3	4
107	Origin and fate of dissolved organic matter in four shallow Baltic Sea estuaries. <i>Biogeochemistry</i> , <b>2021</b> , 154, 385-403	3.8	7
106	Identifying Drivers of Seasonality in Lena River Biogeochemistry and Dissolved Organic Matter Fluxes. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	18
105	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> , <b>2020</b> , 125, e2019JC015920	3.3	42
104	A Decade of Annual Arctic DOC Export With Polar Surface Water in the East Greenland Current. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089686	4.9	2
103	Classification and Quantification of Microplastics (. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13724-13733	7.8	37
102	Emerging patterns in the global distribution of dissolved organic matter fluorescence. <i>Analytical Methods</i> , <b>2019</b> , 11, 888-893	3.2	28
101	Biological transformation of Arctic dissolved organic matter in a NE Greenland fjord. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 1014-1033	4.8	8
100	Sediment alkaline-extracted organic matter (AEOM) fluorescence: An archive of Holocene marine organic matter origins. <i>Science of the Total Environment</i> , <b>2019</b> , 676, 298-304	10.2	2
99	The Influence of Sediment-Derived Dissolved Organic Matter in the Vistula River Estuary/Gulf of Gdansk. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 115-126	3.7	10
98	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> , <b>2019</b> , 124, 349-373	3.3	5
97	Unraveling the size-dependent optical properties of dissolved organic matter. <i>Limnology and Oceanography</i> , <b>2018</b> , 63, 588-601	4.8	23
96	The Molecular Fingerprint of Fluorescent Natural Organic Matter Offers Insight into Biogeochemical Sources and Diagenetic State. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 14188-14197	7.8	22
95	Investigating Fluorescent Organic-Matter Composition as a Key Predictor for Arsenic Mobility in Groundwater Aquifers. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13027-13036	10.3	35

94	Quantifying the impact of solid-phase extraction on chromophoric dissolved organic matter composition. <i>Marine Chemistry</i> , <b>2018</b> , 207, 33-41	3.7	22
93	Photochemistry Illuminates Ubiquitous Organic Matter Fluorescence Spectra. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 11243-11250	10.3	62
92	Examples of unwanted variation when characterising dissolved organic matter using direct injection electrospray mass spectrometry and chemometrics. <i>Analytical Methods</i> , <b>2018</b> , 10, 2636-2646	3.2	1
91	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> , <b>2017</b> , 127, 164-172	1.9	5
90	The One-Sample PARAFAC Approach Reveals Molecular Size Distributions of Fluorescent Components in Dissolved Organic Matter. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 11900-11908	10.3	66
89	Evidence of local and regional freshening of Northeast Greenland coastal waters. <i>Scientific Reports</i> , <b>2017</b> , 7, 13183	4.9	35
88	Spectral signature of suspended fine particulate material on light absorption properties of CDOM. <i>Marine Chemistry</i> , <b>2017</b> , 196, 98-106	3.7	6
87	Global distribution of dissolved organic matter along the aquatic continuum: Across rivers, lakes and oceans. <i>Science of the Total Environment</i> , <b>2017</b> , 609, 180-191	10.2	99
86	Assessment of drinking water quality at the tap using fluorescence spectroscopy. <i>Water Research</i> , <b>2017</b> , 125, 1-10	12.5	73
85	Calibration, standardization, and quantitative analysis of multidimensional fluorescence (MDF) measurements on complex mixtures (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2017</b> , 89, 1849-1870	2.1	12
84	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> , <b>2017</b> , 129, 374-385	3.3	21
83	Extraction of microplastic from biota: recommended acidic digestion destroys common plastic polymers. <i>ICES Journal of Marine Science</i> , <b>2017</b> , 74, 326-331	2.7	109
82	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> , <b>2017</b> , 122, 3431-3445	3.7	28
81	Carbon Bioavailability in a High Arctic Fjord Influenced by Glacial Meltwater, NE Greenland. <i>Frontiers in Marine Science</i> , <b>2017</b> , 4,	4.5	29
80	The Effect of Increased Loads of Dissolved Organic Matter on Estuarine Microbial Community Composition and Function. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 351	5.7	48
79	Experimental insights into the importance of aquatic bacterial community composition to the degradation of dissolved organic matter. <i>ISME Journal</i> , <b>2016</b> , 10, 533-45	11.9	197
78	Linkages between the circulation and distribution of dissolved organic matter in the White Sea, Arctic Ocean. <i>Continental Shelf Research</i> , <b>2016</b> , 119, 1-13	2.4	16
77	Coupling Bacterioplankton Populations and Environment to Community Function in Coastal Temperate Waters. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1533	5.7	11

76	Drivers of fluorescent dissolved organic matter in the global epipelagic ocean. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1101-1119	4.8	33
75	Using fluorescent dissolved organic matter to trace and distinguish the origin of Arctic surface waters. <i>Scientific Reports</i> , <b>2016</b> , 6, 33978	4.9	55
74	Contrasting optical properties of surface waters across the Fram Strait and its potential biological implications. <i>Journal of Marine Systems</i> , <b>2015</b> , 143, 62-72	2.7	34
73	Characterising organic matter in recirculating aquaculture systems with fluorescence EEM spectroscopy. <i>Water Research</i> , <b>2015</b> , 83, 112-20	12.5	83
72	Abundance, size and polymer composition of marine microplastics in the Atlantic Ocean and their modelled vertical distribution. <i>Marine Pollution Bulletin</i> , <b>2015</b> , 100, 70-81	6.7	385
71	A model of extracellular enzymes in free-living microbes: which strategy pays off?. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 7385-93	4.8	44
70	A critical assessment of visual identification of marine microplastic using Raman spectroscopy for analysis improvement. <i>Marine Pollution Bulletin</i> , <b>2015</b> , 100, 82-91	6.7	407
69	The Optical Properties of DOM in the Ocean <b>2015</b> , 481-508		62
68	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> , <b>2015</b> , 120, 7028-7039	3.3	30
67	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> , <b>2015</b> , 120, 1107-1117	3.3	24
66	Recent decrease in DOC concentrations in Arctic lakes of southwest Greenland. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6703-6709	4.9	25
65	Mass and UV-visible spectral fingerprints of dissolved organic matter: sources and reactivity. <i>Frontiers in Marine Science</i> , <b>2015</b> , 2,	4.5	9
64	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> , <b>2015</b> , 2,	4.5	71
63	Microbially-Mediated Fluorescent Organic Matter Transformations in the Deep Ocean. Do the Chemical Precursors Matter?. <i>Frontiers in Marine Science</i> , <b>2015</b> , 2,	4.5	11
62	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> , <b>2015</b> , 2,	4.5	49
61	Changes in the composition and bioavailability of dissolved organic matter during sea ice formation. <i>Limnology and Oceanography</i> , <b>2015</b> , 60, 817-830	4.8	15
60	The influence of glacial melt water on bio-optical properties in two contrasting Greenlandic fjords. <i>Estuarine, Coastal and Shelf Science</i> , <b>2015</b> , 163, 72-83	2.9	49
59	Turnover time of fluorescent dissolved organic matter in the dark global ocean. <i>Nature Communications</i> , <b>2015</b> , 6, 5986	17.4	121

58	Processing of humic-rich riverine dissolved organic matter by estuarine bacteria: effects of predegradation and inorganic nutrients. <i>Aquatic Sciences</i> , <b>2014</b> , 76, 451-463	2.5	41
57	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> , <b>2014</b> , 76, 393-404	2.5	34
56	Radiocarbon dating of fluvial organic matter reveals land-use impacts in boreal peatlands. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12543-51	10.3	10
55	OpenFluor: an online spectral library of auto-fluorescence by organic compounds in the environment. <i>Analytical Methods</i> , <b>2014</b> , 6, 658-661	3.2	422
54	Controls of dissolved organic matter quality: evidence from a large-scale boreal lake survey. <i>Global Change Biology</i> , <b>2014</b> , 20, 1101-14	11.4	207
53	Physical and bacterial controls on inorganic nutrients and dissolved organic carbon during a sea ice growth and decay experiment. <i>Marine Chemistry</i> , <b>2014</b> , 166, 59-69	3.7	17
52	Tracing the long-term microbial production of recalcitrant fluorescent dissolved organic matter in seawater. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2481-2488	4.9	60
51	Seasonal contribution of terrestrial organic matter and biological oxygen demand to the Baltic Sea from three contrasting river catchments. <i>Biogeosciences</i> , <b>2014</b> , 11, 3409-3419	4.6	21
50	Production and transformation of dissolved neutral sugars and amino acids by bacteria in seawater. <i>Biogeosciences</i> , <b>2014</b> , 11, 5349-5363	4.6	9
49	Selective incorporation of dissolved organic matter (DOM) during sea ice formation. <i>Marine Chemistry</i> , <b>2013</b> , 155, 148-157	3.7	33
48	Fluorescence spectroscopy and multi-way techniques. PARAFAC. <i>Analytical Methods</i> , <b>2013</b> , 5, 6557	3.2	862
47	Variations in high-latitude riverine fluorescent dissolved organic matter: A comparison of large Arctic rivers. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 1689-1702	3.7	84
46	Inner filter correction of dissolved organic matter fluorescence. <i>Limnology and Oceanography: Methods</i> , <b>2013</b> , 11, 616-630	2.6	167
45	Bioavailability of riverine dissolved organic matter in three Baltic Sea estuaries and the effect of catchment land use. <i>Biogeosciences</i> , <b>2013</b> , 10, 6969-6986	4.6	99
44	Lake metabolism scales with lake morphometry and catchment conditions. <i>Aquatic Sciences</i> , <b>2012</b> , 74, 155-169	2.5	75
43	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> , <b>2012</b> , 117, n/a-n/a		61
42	Dissolved organic matter sources in large Arctic rivers. <i>Geochimica Et Cosmochimica Acta</i> , <b>2012</b> , 94, 217-233	3.7	162
41	The freshwater composition of the Fram Strait outflow derived from a decade of tracer measurements. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		49

40	Linking CDOM spectral absorption to dissolved organic carbon concentrations and loadings in boreal estuaries. <i>Estuarine, Coastal and Shelf Science</i> , <b>2012</b> , 111, 107-117	2.9	51
39	Oceanographic regime shift during 1997 in Disko Bay, Western Greenland. <i>Limnology and Oceanography</i> , <b>2012</b> , 57, 634-644	4.8	53
38	Using fluorescence to characterize dissolved organic matter in Antarctic sea ice brines. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		71
37	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> , <b>2011</b> , 58, 1075-1091	2.3	58
36	Monitoring organic loading to swimming pools by fluorescence excitation-emission matrix with parallel factor analysis (PARAFAC). <i>Water Research</i> , <b>2011</b> , 45, 2306-14	12.5	41
35	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> , <b>2011</b> , 45, 6030-8	12.5	126
34	Global trends in the fluorescence characteristics and distribution of marine dissolved organic matter. <i>Marine Chemistry</i> , <b>2011</b> , 126, 139-148	3.7	244
33	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> , <b>2011</b> , 126, 281-294	3.7	118
32	Seasonal dynamics and conservative mixing of dissolved organic matter in the temperate eutrophic estuary Horsens Fjord. <i>Estuarine, Coastal and Shelf Science</i> , <b>2011</b> , 92, 376-388	2.9	53
31	The supply and characteristics of colored dissolved organic matter (CDOM) in the Arctic Ocean: Pan Arctic trends and differences. <i>Marine Chemistry</i> , <b>2011</b> , 124, 108-118	3.7	191
30	Assessing the dynamics of chromophoric dissolved organic matter in a subtropical estuary using parallel factor analysis. <i>Marine Chemistry</i> , <b>2011</b> , 124, 125-133	3.7	96
29	Phytoplankton growth and microzooplankton grazing along a sub-Arctic fjord (Godthåbsfjord, west Greenland). <i>Marine Ecology - Progress Series</i> , <b>2011</b> , 442, 11-22	2.6	31
28	Measurement of dissolved organic matter fluorescence in aquatic environments: an interlaboratory comparison. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 9405-12	10.3	418
27	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> , <b>2010</b> , 87, 156-162	2.9	51
26	Fluorescence intensity calibration using the Raman scatter peak of water. <i>Applied Spectroscopy</i> , <b>2009</b> , 63, 936-40	3.1	633
25	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> , <b>2009</b> , 114,		111
24	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. <i>Limnology and Oceanography: Methods</i> , <b>2008</b> , 6, 572-579	2.6	1436
23	Characterizing dissolved organic matter fluorescence with parallel factor analysis: a tutorial. <i>Limnology and Oceanography: Methods</i> , <b>2008</b> , 6, 572-579	2.6	128



22	Distinguishing between terrestrial and autochthonous organic matter sources in marine environments using fluorescence spectroscopy. <i>Marine Chemistry</i> , <b>2008</b> , 108, 40-58	3.7	517
21	Characteristics of dissolved organic matter in Baltic coastal sea ice: allochthonous or autochthonous origins?. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 7273-9	10.3	187
20	Photochemical production of ammonium and transformation of dissolved organic matter in the Baltic Sea. <i>Marine Chemistry</i> , <b>2007</b> , 104, 227-240	3.7	222
19	The conservative and non-conservative behavior of chromophoric dissolved organic matter in Chinese estuarine waters. <i>Marine Chemistry</i> , <b>2007</b> , 107, 357-366	3.7	103
18	The effect of evapoconcentration on dissolved organic carbon concentration and quality in lakes of SW Greenland. <i>Freshwater Biology</i> , <b>2007</b> , 52, 280-289	3.1	78
17	Dissolved organic matter (DOM) export to a temperate estuary: seasonal variations and implications of land use. <i>Estuaries and Coasts</i> , <b>2006</b> , 29, 388-400	2.8	79
16	Handling of Rayleigh and Raman scatter for PARAFAC modeling of fluorescence data using interpolation. <i>Journal of Chemometrics</i> , <b>2006</b> , 20, 99-105	1.6	344
15	Modeling absorption by CDOM in the Baltic Sea from season, salinity and chlorophyll. <i>Marine Chemistry</i> , <b>2006</b> , 101, 1-11	3.7	100
14	Tracing the production and degradation of autochthonous fractions of dissolved organic matter by fluorescence analysis. <i>Limnology and Oceanography</i> , <b>2005</b> , 50, 1415-1426	4.8	411
13	Resolving the variability in dissolved organic matter fluorescence in a temperate estuary and its catchment using PARAFAC analysis. <i>Limnology and Oceanography</i> , <b>2005</b> , 50, 686-697	4.8	703
12	Interactions between algal-bacterial populations and trace metals in fjord surface waters during a nutrient-stimulated summer bloom. <i>Limnology and Oceanography</i> , <b>2005</b> , 50, 1855-1871	4.8	19
11	Changes in fulvic acid redox state through the oxycline of a permanently ice-covered Antarctic lake. <i>Aquatic Sciences</i> , <b>2004</b> , 66, 27-46	2.5	51
10	Behaviour of the optical properties of coloured dissolved organic matter under conservative mixing. <i>Estuarine, Coastal and Shelf Science</i> , <b>2003</b> , 57, 973-979	2.9	133
9	Tracing dissolved organic matter in aquatic environments using a new approach to fluorescence spectroscopy. <i>Marine Chemistry</i> , <b>2003</b> , 82, 239-254	3.7	1296
8	Fate of terrigenous dissolved organic matter (DOM) in estuaries: Aggregation and bioavailability. <i>Ophelia</i> , <b>2003</b> , 57, 161-176		84
7	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> , <b>2001</b> , 46, 2087-2093	4.8	144
6	Optical Properties and Signatures of Chromophoric Dissolved Organic Matter (CDOM) in Danish Coastal Waters. <i>Estuarine, Coastal and Shelf Science</i> , <b>2000</b> , 51, 267-278	2.9	337
5	Biological Origins and Fate of Fluorescent Dissolved Organic Matter in Aquatic Environments		278-300 17

4	Chemometric Analysis of Organic Matter Fluorescence339-375		31
3	FluoRAS Sensor - Online organic matter for optimising recirculating aquaculture systems. <i>Research Ideas and Outcomes</i> ,4, e23957	2.5	1
2	Bioavailability of riverine dissolved organic matter in three Baltic Sea estuaries and the effect of catchment land-use		2
1	Bacterial production and transformation of dissolved neutral sugars and amino acids in seawater		2