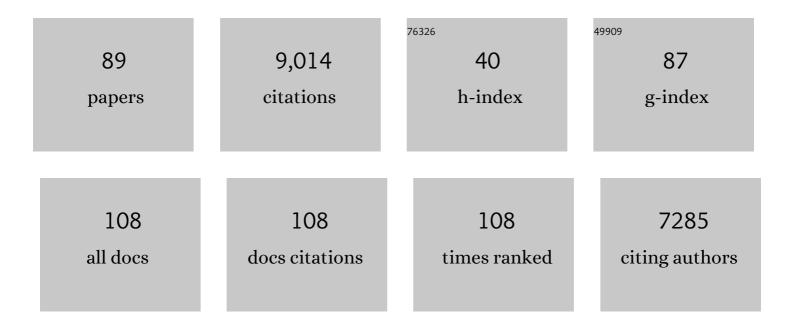
List of Publications by Year in descending order

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RODIS KOCH

#	Article	IF	CITATIONS
1	In contrast to diatoms, cryptophytes are susceptible to iron limitation, but not to ocean acidification. Physiologia Plantarum, 2022, 174, e13614.	5.2	3
2	Dissolved organic matter characterization in soils and streams in a small coastal low-Arctic catchment. Biogeosciences, 2022, 19, 3073-3097.	3.3	9
3	Permafrost Carbon and CO2 Pathways Differ at Contrasting Coastal Erosion Sites in the Canadian Arctic. Frontiers in Earth Science, 2021, 9, .	1.8	21
4	The impact of the freeze–melt cycle of land-fast ice on the distribution of dissolved organic matter in the Laptev and East Siberian seas (Siberian Arctic). Biogeosciences, 2021, 18, 3637-3655.	3.3	4
5	Reef communities associated with â€~dead' cold-water coral framework drive resource retention and recycling in the deep sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 175, 103574.	1.4	18
6	Solid-Phase Extraction of Aquatic Organic Matter: Loading-Dependent Chemical Fractionation and Self-Assembly. Environmental Science & Technology, 2021, 55, 15495-15504.	10.0	15
7	Analytical and Computational Advances, Opportunities, and Challenges in Marine Organic Biogeochemistry in an Era of "Omicsâ€: Frontiers in Marine Science, 2020, 7, .	2.5	24
8	Siderophore purification with titanium dioxide nanoparticle solid phase extraction. Analyst, The, 2020, 145, 7303-7311.	3.5	5
9	Particulate Organic Carbon Deconstructed: Molecular and Chemical Composition of Particulate Organic Carbon in the Ocean. Frontiers in Marine Science, 2020, 7, .	2.5	72
10	Dissolved Domoic Acid Does Not Improve Growth Rates and Iron Content in Iron-Stressed Pseudo-Nitzschia subcurvata. Frontiers in Marine Science, 2020, 7, .	2.5	4
11	Vibrio and Bacterial Communities Across a Pollution Gradient in the Bay of Bengal: Unraveling Their Biogeochemical Drivers. Frontiers in Microbiology, 2020, 11, 594.	3.5	31
12	Interlaboratory comparison of humic substances compositional space as measured by Fourier transform ion cyclotron resonance mass spectrometry (IUPAC Technical Report). Pure and Applied Chemistry, 2020, 92, 1447-1467.	1.9	15
13	The influence of dissolved organic matter on the marine production of carbonyl sulfide (OCS) and carbon disulfide (CS <sub>2</sub> ) in the Peruvian upwelling. Ocean Science, 2019, 15, 1071-1090.	3.4	21
14	Influence of Glacial Meltwater on Summer Biogeochemical Cycles in Scoresby Sund, East Greenland. Frontiers in Marine Science, 2019, 6, .	2,5	19
15	Organic matter from Arctic sea-ice loss alters bacterial community structure and function. Nature Climate Change, 2019, 9, 170-176.	18.8	48
16	Quantification, extractability and stability of dissolved domoic acid within marine dissolved organic matter. Marine Chemistry, 2019, 215, 103669.	2.3	13
17	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. Reviews of Geophysics, 2019, 57, 623-708.	23.0	105
18	Interactions of trace elements and organic ligands in seawater and implications for quantifying biogeochemical dynamics: A review. Earth-Science Reviews, 2019, 192, 631-649.	9.1	23

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19	Linking optical and chemical signatures of dissolved organic matter in the southern Argentine shelf: Distribution and bioavailability. Journal of Marine Systems, 2019, 195, 74-82.	2.1	10
20	UltraMassExplorer: a browserâ€based application for the evaluation of highâ€resolution mass spectrometric data. Rapid Communications in Mass Spectrometry, 2019, 33, 193-202.	1.5	41
21	Stoichiometry, polarity, and organometallics in solid-phase extracted dissolved organic matter of the Elbe-Weser estuary. PLoS ONE, 2018, 13, e0203260.	2.5	12
22	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
23	Quantifying the impact of solid-phase extraction on chromophoric dissolved organic matter composition. Marine Chemistry, 2018, 207, 33-41.	2.3	48
24	Aging and Molecular Changes of Dissolved Organic Matter Between Two Deep Oceanic Endâ€Members. Global Biogeochemical Cycles, 2018, 32, 1449-1456.	4.9	15
25	Bacterioplankton drawdown of coral mass-spawned organic matter. ISME Journal, 2018, 12, 2238-2251.	9.8	8
26	Molecular diversity patterns among various phytoplankton size-fractions in West Greenland in late summer. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 121, 54-69.	1.4	30
27	Response to Comment on "Dissolved organic sulfur in the ocean: Biogeochemistry of a petagram inventory― Science, 2017, 356, 813-813.	12.6	10
28	Near-surface Heating of Young Rift Sediment Causes Mass Production and Discharge of Reactive Dissolved Organic Matter. Scientific Reports, 2017, 7, 44864.	3.3	36
29	How representative are dissolved organic matter (DOM) extracts? A comprehensive study of sorbent selectivity for DOM isolation. Water Research, 2017, 116, 316-323.	11.3	98
30	Unraveling signatures of biogeochemical processes and the depositional setting in the molecular composition of pore water DOM across different marine environments. Geochimica Et Cosmochimica Acta, 2017, 207, 57-80.	3.9	103
31	Factors influencing the characteristics and distribution or surface organic matter in the Pacific-Atlantic connection. Journal of Marine Systems, 2017, 175, 36-45.	2.1	22
32	Leads in Arctic pack ice enable early phytoplankton blooms below snow-covered sea ice. Scientific Reports, 2017, 7, 40850.	3.3	259
33	Identification of organic compounds in ocean basement fluids. Organic Geochemistry, 2017, 113, 124-127.	1.8	13
34	Biogeochemical and hydrological drivers of the dynamics of Vibrio species in two Patagonian estuaries. Science of the Total Environment, 2017, 579, 646-656.	8.0	35
35	Mercury and methylmercury in the Atlantic sector of the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 138, 52-62.	1.4	18
36	Proposed Guidelines for Solid Phase Extraction of Suwannee River Dissolved Organic Matter. Analytical Chemistry, 2016, 88, 6680-6688.	6.5	118

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37	The 13th International Estuarine Biogeochemistry Symposium: â€~Estuaries and bays under anthropogenic pressure: past-present-future'. Marine Chemistry, 2016, 185, 1-2.	2.3	1
38	Dissolved organic sulfur in the ocean: Biogeochemistry of a petagram inventory. Science, 2016, 354, 456-459.	12.6	152
39	Meteorology and oceanography of the Atlantic sector of the Southern Ocean—a review of German achievements from the last decade. Ocean Dynamics, 2016, 66, 1379-1413.	2.2	12
40	The Pacific-Atlantic connection: Biogeochemical signals in the southern end of the Argentine shelf. Journal of Marine Systems, 2016, 163, 95-101.	2.1	28
41	Comprehensive structure-selective characterization of dissolved organic matter by reducing molecular complexity and increasing analytical dimensions. Water Research, 2016, 106, 477-487.	11.3	24
42	Depth-dependent photodegradation of marine dissolved organic matter. Frontiers in Marine Science, 2015, 2, .	2.5	59
43	Analysis of the hydrographic conditions and cyst beds in the San Jorge Gulf, Argentina, that favor dinoflagellate population development including toxigenic species and their toxins. Journal of Marine Systems, 2015, 148, 86-100.	2.1	47
44	Dynamics of dissolved organic matter in fjord ecosystems: Contributions of terrestrial dissolved organic matter in the deep layer. Estuarine, Coastal and Shelf Science, 2015, 159, 37-49.	2.1	18
45	Origin-specific molecular signatures of dissolved organic matter in the Lena Delta. Biogeochemistry, 2015, 123, 1-14.	3.5	38
46	Molecular insights into the microbial formation of marine dissolved organic matter: recalcitrant or labile?. Biogeosciences, 2014, 11, 4173-4190.	3.3	128
47	Mechanisms of microbial carbon sequestration in the ocean – future research directions. Biogeosciences, 2014, 11, 5285-5306.	3.3	177
48	Corrigendum to "Mechanisms of microbial carbon sequestration in the ocean – future research directions" published in Biogeosciences, 11, 5285–5306, 2014. Biogeosciences, 2014, 11, 5565-5565.	3.3	1
49	Factors influencing particulate lipid production in the East Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 89, 56-67.	1.4	25
50	Molecular transformation and degradation of refractory dissolved organic matter in the Atlantic and Southern Ocean. Geochimica Et Cosmochimica Acta, 2014, 126, 321-337.	3.9	247
51	Extending the analytical window for water-soluble organic matter in sediments by aqueous Soxhlet extraction. Geochimica Et Cosmochimica Acta, 2014, 141, 83-96.	3.9	41
52	The influence of salinity on the molecular and optical properties of surface microlayers in a karstic estuary. Marine Chemistry, 2013, 150, 25-38.	2.3	43
53	Elucidating the Biogeochemical Memory of the Oceans by Means of High-Resolution Organic Structural Spectroscopy. , 2013, , 13-17.		1
54	High-field NMR spectroscopy and FTICR mass spectrometry: powerful discovery tools for the molecular level characterization of marine dissolved organic matter. Biogeosciences, 2013, 10, 1583-1624.	3.3	276

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55	Nutrient pulse induces dynamic changes in cellular C:N:P, amino acids, and paralytic shellfish poisoning toxins in Alexandrium tamarense. Marine Ecology - Progress Series, 2013, 493, 57-69.	1.9	24
56	A molecular perspective on the ageing of marine dissolved organic matter. Biogeosciences, 2012, 9, 1935-1955.	3.3	200
57	New azaspiracids in Amphidomataceae (Dinophyceae). Toxicon, 2012, 60, 830-839.	1.6	97
58	Preface "Sources and rapid biogeochemical transformation of dissolved organic matter in the Atlantic surface ocean". Biogeosciences, 2012, 9, 2597-2602.	3.3	13
59	Dissolved organic matter in sea spray: a transfer study from marine surface water to aerosols. Biogeosciences, 2012, 9, 1571-1582.	3.3	117
60	Spectroscopic detection of a ubiquitous dissolved pigment degradation product in subsurface waters of the global ocean. Biogeosciences, 2012, 9, 2585-2596.	3.3	35
61	Diagenetic Transformation of Dissolved Organic Nitrogen Compounds under Contrasting Sedimentary Redox Conditions in the Black Sea. Environmental Science & Technology, 2011, 45, 5223-5229.	10.0	106
62	Inorganics in Organics: Quantification of Organic Phosphorus and Sulfur and Trace Element Speciation in Natural Organic Matter Using HPLC-ICPMS. Analytical Chemistry, 2011, 83, 8968-8974.	6.5	27
63	Triterpenols in mangrove sediments as a proxy for organic matter derived from the red mangrove (Rhizophora mangle). Organic Geochemistry, 2011, 42, 62-73.	1.8	45
64	Transport and fate of hexachlorocyclohexanes in the oceanic air and surface seawater. Biogeosciences, 2011, 8, 2621-2633.	3.3	38
65	Biogeochemical controls on the bacterial populations in the eastern Atlantic Ocean. Biogeosciences, 2011, 8, 3747-3759.	3.3	21
66	Molecular level investigation of reactions between dissolved organic matter and extraction solvents using FT-ICR MS. Marine Chemistry, 2011, 124, 100-107.	2.3	47
67	Comprehensive characterization of marine dissolved organic matter by Fourier transform ion cyclotron resonance mass spectrometry with electrospray and atmospheric pressure photoionization. Rapid Communications in Mass Spectrometry, 2010, 24, 643-650.	1.5	104
68	Selective preservation of organic matter in marine environments; processes and impact on the sedimentary record. Biogeosciences, 2010, 7, 483-511.	3.3	331
69	The Biogeochemistry of the Caet $ ilde{A}$ © Mangrove-Shelf System. Ecological Studies, 2010, , 45-67.	1.2	1
70	The Mangrove Information System MAIS: Managing and Integrating Interdisciplinary Research Data. Ecological Studies, 2010, , 355-364.	1.2	1
71	Fragmentation Studies of Fulvic Acids Using Collision Induced Dissociation Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2009, 81, 2688-2694.	6.5	114
72	Molecular characterization of dissolved organic matter in pore water of continental shelf sediments. Geochimica Et Cosmochimica Acta, 2009, 73, 3337-3358.	3.9	184

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73	Tools for Studying Biogeochemical Connectivity Among Tropical Coastal Ecosystems. , 2009, , 425-455.		3
74	Release of fixed N2 and C as dissolved compounds by Trichodesmium erythreum and Nodularia spumigena under the influence of high light and high nutrient (P). Aquatic Microbial Ecology, 2009, 57, 175-189.	1.8	42
75	Advanced characterization of marine dissolved organic matter by combining reversed-phase liquid chromatography and FT-ICR-MS. Marine Chemistry, 2008, 111, 233-241.	2.3	154
76	Natural Organic Matter and the Event Horizon of Mass Spectrometry. Analytical Chemistry, 2008, 80, 8908-8919.	6.5	394
77	Spectroscopic characterization of fulvic acids extracted from the rock exudate Shilajit. Organic Geochemistry, 2008, 39, 1719-1724.	1.8	35
78	Stratification and the distribution of phytoplankton, nutrients, inorganic carbon, and sulfur in the surface waters of Weddell Sea leads. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 988-999.	1.4	14
79	A simple and efficient method for the solidâ€phase extraction of dissolved organic matter (SPEâ€DOM) from seawater. Limnology and Oceanography: Methods, 2008, 6, 230-235.	2.0	1,329
80	Rapid biotic molecular transformation of fulvic acids in a karst aquifer. Geochimica Et Cosmochimica Acta, 2007, 71, 5474-5482.	3.9	66
81	Fundamentals of Molecular Formula Assignment to Ultrahigh Resolution Mass Data of Natural Organic Matter. Analytical Chemistry, 2007, 79, 1758-1763.	6.5	414
82	Tracing suspended organic nitrogen from the Yangtze River catchment into the East China Sea. Marine Chemistry, 2007, 107, 367-377.	2.3	97
83	Tracing terrigenous dissolved organic matter and its photochemical decay in the ocean by using liquid chromatography/mass spectrometry. Marine Chemistry, 2007, 107, 378-387.	2.3	63
84	From mass to structure: an aromaticity index for high-resolution mass data of natural organic matter. Rapid Communications in Mass Spectrometry, 2006, 20, 926-932.	1.5	1,058
85	Thermogenic organic matter dissolved in the abyssal ocean. Marine Chemistry, 2006, 102, 208-217.	2.3	196
86	Molecular formulae of marine and terrigenous dissolved organic matter detected by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. Geochimica Et Cosmochimica Acta, 2005, 69, 3299-3308.	3.9	445
87	The effect of selective microbial degradation on the composition of mangrove derived pentacyclic triterpenols in surface sediments. Organic Geochemistry, 2005, 36, 273-285.	1.8	51
88	Title is missing!. Wetlands Ecology and Management, 2003, 11, 257-263.	1.5	65
89	An integrated approach to mangrove dynamics and management. Journal of Coastal Conservation, 1999, 5, 125-134.	1.6	26