Rainer Amon

List of Publications by Year
in descending order

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46 papers	5,925 citations	101543 36 h-index	214800 47 g-index
51 all docs	51 docs citations	51 times ranked	5653 citing authors

#	Article	IF	Citations
1	Bacterial utilization of different size classes of dissolved organic matter. Limnology and Oceanography, 1996, 41, 41-51.	3.1	860
2	Rapid cycling of high-molecular-weight dissolved organic matter in the ocean. Nature, 1994, 369, 549-552.	27.8	450
3	Linkages among the bioreactivity, chemical composition, and diagenetic state of marine dissolved organic matter. Limnology and Oceanography, 2001, 46, 287-297.	3.1	355
4	Photochemical and microbial consumption of dissolved organic carbon and dissolved oxygen in the Amazon River system. Geochimica Et Cosmochimica Acta, 1996, 60, 1783-1792.	3.9	332
5	The Size-Reactivity Continuum of Major Bioelements in the Ocean. Annual Review of Marine Science, 2015, 7, 185-205.	11.6	284
6	Major flux of terrigenous dissolved organic matter through the Arctic Ocean. Limnology and Oceanography, 1999, 44, 2017-2023.	3.1	282
7	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
8	Dissolved organic matter sources in large Arctic rivers. Geochimica Et Cosmochimica Acta, 2012, 94, 217-237.	3.9	207
9	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. Environmental Research Letters, 2016, 11, 034014.	5.2	199
10	Pan-Arctic distributions of continental runoff in the Arctic Ocean. Scientific Reports, 2013, 3, 1053.	3.3	195
11	Export of young terrigenous dissolved organic carbon from rivers to the Arctic Ocean. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	177
12	Terrigenous dissolved organic matter in the Arctic Ocean and its transport to surface and deep waters of the North Atlantic. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	169
13	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
14	Circumpolar synchrony in big river bacterioplankton. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21208-21212.	7.1	136
15	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
16	The rise and fall of methanotrophy following a deepwater oil-well blowout. Nature Geoscience, 2014, 7, 423-427.	12.9	121
17	The biogeochemistry of dissolved organic matter and nutrients in two large Arctic estuaries and potential implications for our understanding of the Arctic Ocean system. Marine Chemistry, 2004, 92, 311-330.	2.3	119
18	Combined neutral sugars as indicators of the diagenetic state of dissolved organic matter in the Arctic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2003, 50, 151-169.	1.4	116

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19	A review of water column processes influencing hypoxia in the northern Gulf of Mexico. Estuaries and Coasts, 2007, 30, 735-752.	2.2	110
20	Dissolved organic carbon distribution and origin in the Nordic Seas: Exchanges with the Arctic Ocean and the North Atlantic. Journal of Geophysical Research, 2003, 108, .	3.3	103
21	Heterotrophic bacterial activity and fluxes of dissolved free amino acids and glucose in the Arctic rivers Ob, Yenisei and the adjacent Kara Sea. Aquatic Microbial Ecology, 2004, 37, 121-135.	1.8	100
22	Microbial Metabolism and Nutrient Cycling in the Mississippi and Atchafalaya River Plumes. Estuarine, Coastal and Shelf Science, 2000, 50, 173-184.	2.1	92
23	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
24	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
25	Sources and the flux pattern of dissolved carbon in rivers of the Yenisey basin draining the Central Siberian Plateau. Environmental Research Letters, 2011, 6, 045212.	5.2	77
26	Origins and transformations of dissolved organic matter in large Arctic rivers. Scientific Reports, 2017, 7, 13064.	3.3	74
27	Development of a Panâ€Arctic Database for River Chemistry. Eos, 2008, 89, 217-218.	0.1	72
28	The fate of terrigenous dissolved organic carbon on the <scp>E</scp>urasian shelves and export to the <scp>N</scp>orth <scp>A</scp>tlantic. Journal of Geophysical Research: Oceans, 2017, 122, 4-22.	2.6	62
29	Seasonal Patterns of Bacterial Abundance and Production in the Mississippi River Plume and Their Importance for the Fate of Enhanced Primary Production. Microbial Ecology, 1998, 35, 289-300.	2.8	57
30	Analysis of lignin-derived phenols in standard reference materials and ocean dissolved organic matter by gas chromatography/tandem mass spectrometry. Marine Chemistry, 2010, 118, 85-97.	2.3	55
31	Labile pyrogenic dissolved organic carbon in major Siberian Arctic rivers: Implications for wildfireâ€stream metabolic linkages. Geophysical Research Letters, 2015, 42, 377-385.	4.0	55
32	Predicting Dissolved Lignin Phenol Concentrations in the Coastal Ocean from Chromophoric Dissolved Organic Matter (CDOM) Absorption Coefficients. Frontiers in Marine Science, 2016, 3, .	2.5	50
33	Deposit Feeding and Sediment:. Marine Ecology, 1991, 12, 163-174.	1.1	49
34	Effects of high-molecular-weight dissolved organic matter on nitrogen dynamics in the Mississippi River plume. Marine Ecology - Progress Series, 1996, 133, 287-297.	1.9	44
35	Distribution and persistence of Escherichia coli and Enterococci in stream bed and bank sediments from two urban streams in Houston, TX. Science of the Total Environment, 2015, 502, 650-658.	8.0	42
36	Controls of 234Th removal from the oligotrophic ocean by polyuronic acids and modification by microbial activity. Marine Chemistry, 2011, 123, 111-126.	2.3	38

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37	Tracing sources of organic matter in adjacent urban streams having different degrees of channel modification. Science of the Total Environment, 2014, 485-486, 252-262.	8.0	23
38	Polychaete annelid (segmented worms) abundance and species composition in the proximity (6â€“9 km) of the Deep Water Horizon (DWH) Oil Spill in the Deep Gulf of Mexico. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 130-136.	1.4	13
39	Effects of tributary inputs on nutrient export from the Mississippi and Atchafalaya Rivers to the Gulf of Mexico. Marine and Freshwater Research, 2010, 61, 1029.	1.3	12
40	Deposit Feeding and Sediment:.. Marine Ecology, 1991, 12, 175-184.	1.1	11
41	Turbulent Mixing in a Loop Current Eddy From Gliderâ€Based Microstructure Observations. Geophysical Research Letters, 2020, 47, e2020GL088033.	4.0	11
42	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. Earth System Science Data, 2021, 13, 1561-1592.	9.9	11
43	Temperature Control on Soluble Reactive Phosphorus in the Lower Mississippi River?. Estuaries and Coasts, 2011, 34, 78-89.	2.2	10
44	Ocean dissolved organics matter. Nature Geoscience, 2016, 9, 864-865.	12.9	9
45	Insights Into Water Mass Origins in the Central Arctic Ocean From Inâ€Situ Dissolved Organic Matter Fluorescence. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017407.	2.6	9
46	Sources of Dissolved Organic Carbon in Rivers of the Yenisei River Basin. Doklady Earth Sciences, 2018, 480, 763-766.	0.7	6