

Jutta Niggemann

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,337
citations

117625

34
h-index

128289

60
g-index

64
all docs

64
docs citations

64
times ranked

4473
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Charcoal Mobilization from Soils via Dissolution and Riverine Transport to the Oceans. <i>Science</i> , 2013, 340, 345-347.	12.6	432
2	Biogeochemically diverse organic matter in Alpine glaciers and its downstream fate. <i>Nature Geoscience</i> , 2012, 5, 710-714.	12.9	254
3	Deciphering ocean carbon in a changing world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3143-3151.	7.1	253
4	Biogeochemistry of dissolved organic matter in an anoxic intertidal creek bank. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 418-434.	3.9	218
5	Continuous flux of dissolved black carbon from a vanished tropical forest biome. <i>Nature Geoscience</i> , 2012, 5, 618-622.	12.9	183
6	Anaerobic oxidation of methane and sulfate reduction along the Chilean continental margin. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2767-2779.	3.9	173
7	An intercomparison of three methods for the large-scale isolation of oceanic dissolved organic matter. <i>Marine Chemistry</i> , 2014, 161, 14-19.	2.3	168
8	Inefficient microbial production of refractory dissolved organic matter in the ocean. <i>Nature Communications</i> , 2015, 6, 7422.	12.8	166
9	Linking the Molecular Signature of Heteroatomic Dissolved Organic Matter to Watershed Characteristics in World Rivers. <i>Environmental Science & Technology</i> , 2015, 49, 13798-13806.	10.0	166
10	Deciphering associations between dissolved organic molecules and bacterial communities in a pelagic marine system. <i>ISME Journal</i> , 2016, 10, 1717-1730.	9.8	155
11	Fate of the Amazon River dissolved organic matter in the tropical Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 677-690.	4.9	148
12	Aerosols as a source of dissolved black carbon to the ocean. <i>Nature Communications</i> , 2017, 8, 510.	12.8	106
13	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019, 4, 234-243.	13.3	103
14	Benthic-pelagic coupling of nutrients and dissolved organic matter composition in an intertidal sandy beach. <i>Marine Chemistry</i> , 2015, 176, 150-163.	2.3	102
15	Molecular Signatures of Biogeochemical Transformations in Dissolved Organic Matter from Ten World Rivers. <i>Frontiers in Earth Science</i> , 2016, 4, .	1.8	96
16	The Exometabolome of Two Model Strains of the Roseobacter Group: A Marketplace of Microbial Metabolites. <i>Frontiers in Microbiology</i> , 2017, 8, 1985.	3.5	96
17	The drivers of biogeochemistry in beach ecosystems: A cross-shore transect from the dunes to the low-water line. <i>Marine Chemistry</i> , 2017, 190, 35-50.	2.3	90
18	Utilizing colored dissolved organic matter to derive dissolved black carbon export by arctic rivers. <i>Frontiers in Earth Science</i> , 2015, 3, .	1.8	83

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19	A novel molecular approach for tracing terrigenous dissolved organic matter into the deep ocean. <i>Global Biogeochemical Cycles</i> , 2016, 30, 689-699.	4.9	81
20	ICBM-OCEAN: Processing Ultrahigh-Resolution Mass Spectrometry Data of Complex Molecular Mixtures. <i>Analytical Chemistry</i> , 2020, 92, 6832-6838.	6.5	74
21	Ammonia-oxidizing archaea release a suite of organic compounds potentially fueling prokaryotic heterotrophy in the ocean. <i>Environmental Microbiology</i> , 2019, 21, 4062-4075.	3.8	71
22	Environmental Drivers of Dissolved Organic Matter Molecular Composition in the Delaware Estuary. <i>Frontiers in Earth Science</i> , 2016, 4, .	1.8	65
23	Molecular evidence for abiotic sulfurization of dissolved organic matter in marine shallow hydrothermal systems. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 190, 35-52.	3.9	60
24	Diatom fucan polysaccharide precipitates carbon during algal blooms. <i>Nature Communications</i> , 2021, 12, 1150.	12.8	58
25	Chlorin Index: A new parameter for organic matter freshness in sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	52
26	Fatty acid biogeochemistry of sediments from the Chilean coastal upwelling region: Sources and diagenetic changes. <i>Organic Geochemistry</i> , 2006, 37, 626-647.	1.8	50
27	Does the Chemodiversity of Bacterial Exometabolomes Sustain the Chemodiversity of Marine Dissolved Organic Matter?. <i>Frontiers in Microbiology</i> , 2019, 10, 215.	3.5	50
28	Molecular evidence for rapid dissolved organic matter turnover in Arctic fjords. <i>Marine Chemistry</i> , 2014, 160, 1-10.	2.3	48
29	Bacterial community structure and dissolved organic matter in repeatedly flooded subsurface karst water pools. <i>FEMS Microbiology Ecology</i> , 2014, 89, 111-126.	2.7	48
30	Short-Term Dynamics of North Sea Bacterioplankton-Dissolved Organic Matter Coherence on Molecular Level. <i>Frontiers in Microbiology</i> , 2016, 7, 321.	3.5	48
31	How depositional conditions control input, composition, and degradation of organic matter in sediments from the Chilean coastal upwelling region. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1513-1527.	3.9	46
32	Diversity of bacterial communities and dissolved organic matter in a temperate estuary. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	42
33	Sources and fate of amino sugars in coastal Peruvian sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2229-2237.	3.9	41
34	Dissolved Black Carbon in the Headwaters-to-Ocean Continuum of Para�ba Do Sul River, Brazil. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	38
35	Molecular composition and origin of water-soluble organic matter in marine aerosols in the Pacific off China. <i>Atmospheric Environment</i> , 2018, 191, 27-35.	4.1	38
36	Different Responses of Dissolved Black Carbon and Dissolved Lignin to Seasonal Hydrological Changes and an Extreme Rain Event. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 479-493.	3.0	38

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37	Sulfurization of dissolved organic matter in the anoxic water column of the Black Sea. <i>Science Advances</i> , 2021, 7, .	10.3	34
38	Improved Mass Accuracy and Isotope Confirmation through Alignment of Ultrahigh-Resolution Mass Spectra of Complex Natural Mixtures. <i>Analytical Chemistry</i> , 2020, 92, 2558-2565.	6.5	33
39	Combined Carbohydrates Support Rich Communities of Particle-Associated Marine Bacterioplankton. <i>Frontiers in Microbiology</i> , 2017, 08, 65.	3.5	28
40	Questions remain about the biolability of dissolved black carbon along the combustion continuum. <i>Nature Communications</i> , 2021, 12, 4281.	12.8	28
41	Interaction between iron and dissolved organic matter in a marine shallow hydrothermal system off Dominica Island (Lesser Antilles). <i>Marine Chemistry</i> , 2015, 177, 677-686.	2.3	26
42	Bottled aqua incognita: microbiota assembly and dissolved organic matter diversity in natural mineral waters. <i>Microbiome</i> , 2017, 5, 126.	11.1	26
43	Carbon assimilating fungi from surface ocean to seafloor revealed by coupled phylogenetic and stable isotope analysis. <i>ISME Journal</i> , 2022, 16, 1245-1261.	9.8	22
44	Uncoupled organic matter burial and quality in boreal lake sediments over the Holocene. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1751-1763.	3.0	21
45	Impact of Viral Lysis on the Composition of Bacterial Communities and Dissolved Organic Matter in Deep-Sea Sediments. <i>Viruses</i> , 2020, 12, 922.	3.3	18
46	Accumulation of DOC in the South Pacific Subtropical Gyre from a molecular perspective. <i>Marine Chemistry</i> , 2021, 231, 103955.	2.3	18
47	Environmental Controls on the Riverine Export of Dissolved Black Carbon. <i>Global Biogeochemical Cycles</i> , 2019, 33, 849-874.	4.9	16
48	Secretion of sulfated fucans by diatoms may contribute to marine aggregate formation. <i>Limnology and Oceanography</i> , 2021, 66, 3768-3782.	3.1	16
49	Aphotic N<sub>2</sub> fixation along an oligotrophic to ultraoligotrophic transect in the western tropical South Pacific Ocean. <i>Biogeosciences</i> , 2018, 15, 3107-3119.	3.3	15
50	Natural Asphalt Seeps Are Potential Sources for Recalcitrant Oceanic Dissolved Organic Sulfur and Dissolved Black Carbon. <i>Environmental Science & Technology</i> , 2022, 56, 9092-9102.	10.0	13
51	Biogeochemical Impacts of a Black Carbon Wet Deposition Event in Halong Bay, Vietnam. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	11
52	Comparison of different solid phase extraction sorbents for the qualitative assessment of dissolved organic nitrogen in freshwater samples using FT-ICR-MS. <i>Journal of Limnology</i> , 0, , .	1.1	10
53	Delivery of Metals and Dissolved Black Carbon to the Southern California Coastal Ocean via Aerosols and Floodwaters Following the 2017 Thomas Fire. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006117.	3.0	10
54	Dissolved Organic Matter Cycling in the Coastal Upwelling System Off Central Peru During an El Niño Year. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	8

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55	Evaluation of Copper Oxide Oxidation for Quantification of Lignin in Municipal Solid Waste. Environmental Engineering Science, 2015, 32, 486-496.	1.6	6
56	Seasonal dynamics of atmospheric and river inputs of black carbon, and impacts on biogeochemical cycles in Halong Bay, Vietnam. Elementa, 2017, 5, .	3.2	6
57	Biodegradability of hydrothermally altered deep-sea dissolved organic matter. Marine Chemistry, 2019, 217, 103706.	2.3	6
58	The carbon and nitrogen budget of <i>Desmophyllum dianthus</i> – a voracious cold-water coral thriving in an acidified Patagonian fjord. PeerJ, 2021, 9, e12609.	2.0	6
59	Dissolved organic compounds with synchronous dynamics share chemical properties and origin. Limnology and Oceanography, 2021, 66, 4001-4016.	3.1	5
60	The detection of bacterial exometabolites in marine dissolved organic matter through ultrahigh-resolution mass spectrometry. Limnology and Oceanography: Methods, 2022, 20, 350-360.	2.0	5
61	Deciphering the Virus Signal Within the Marine Dissolved Organic Matter Pool. Frontiers in Microbiology, 2022, 13, .	3.5	4
62	Impact of Quorum Sensing and Tropodithietic Acid Production on the Exometabolome of <i>Phaeobacter inhibens</i> . Frontiers in Microbiology, 0, 13, .	3.5	0