

Daniel J Repeta

List of Publications by Year in descending order

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85
papers

6,578
citations

66343

42
h-index

66911

78
g-index

88
all docs

88
docs citations

88
times ranked

6378
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolved Organic Matter in the Ocean: A Controversy Stimulates New Insights. <i>Oceanography</i> , 2009, 22, 202-211.	1.0	864
2	Microbial community transcriptomes reveal microbes and metabolic pathways associated with dissolved organic matter turnover in the sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16420-16427.	7.1	384
3	A major biopolymeric component to dissolved organic carbon in surface sea water. <i>Nature</i> , 1997, 387, 166-169.	27.8	359
4	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
5	The pigments of <i>Prochlorococcus marinus</i> : The presence of divinylchlorophyll a and b in a marine procaryote. <i>Limnology and Oceanography</i> , 1992, 37, 425-433.	3.1	247
6	Oligotrophy and Nitrogen Fixation During Eastern Mediterranean Sapropel Events. <i>Science</i> , 1999, 286, 2485-2488.	12.6	241
7	Marine methane paradox explained by bacterial degradation of dissolved organic matter. <i>Nature Geoscience</i> , 2016, 9, 884-887.	12.9	231
8	Siderophore-based microbial adaptations to iron scarcity across the eastern Pacific Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14237-14242.	7.1	179
9	Chemical characterization of high molecular weight dissolved organic matter in fresh and marine waters. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 955-962.	3.9	176
10	Two Chemically Distinct Pools of Organic Nitrogen Accumulate in the Ocean. <i>Science</i> , 2005, 308, 1007-1010.	12.6	175
11	Hidden cycle of dissolved organic carbon in the deep ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16706-16711.	7.1	136
12	Stable isotope constraints on the nitrogen cycle of the Mediterranean Sea water column. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 1609-1621.	1.4	134
13	Closely related phytoplankton species produce similar suites of dissolved organic matter. <i>Frontiers in Microbiology</i> , 2014, 5, 111.	3.5	124
14	Carotenoid diagenesis in recent marine sediments: II. Degradation of fucoxanthin to loliolide. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 699-707.	3.9	111
15	Radiocarbon analysis of neutral sugars in high-molecular-weight dissolved organic carbon: Implications for organic carbon cycling. <i>Limnology and Oceanography</i> , 2006, 51, 1045-1053.	3.1	108
16	Biosynthetic origins and assignments of carbon 13 NMR peaks of brevetoxin B. <i>Journal of the American Chemical Society</i> , 1986, 108, 7855-7856.	13.7	106
17	Chemical composition and cycling of dissolved organic matter in the Mid-Atlantic Bight. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4421-4437.	1.4	103
18	Nitrogen and carbon isotopic ratios of chlorophyll from marine phytoplankton. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1431-1441.	3.9	101

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19	The organic geochemistry of Peru margin surface sediments: I. A comparison of the C37 alkenone and historical El Niño records. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1671-1682.	3.9	97
20	A high resolution historical record of Holocene anoxygenic primary production in the Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4337-4342.	3.9	92
21	Transformation reactions and recycling of carotenoids and chlorins in the Peru upwelling region (15°S, 75°W). <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 1265-1277.	3.9	90
22	Dissolved Organic Nitrogen Hydrolysis Rates in Axenic Cultures of <i>Aureococcus anophagefferens</i> (Pelagophyceae): Comparison with Heterotrophic Bacteria. <i>Applied and Environmental Microbiology</i> , 2002, 68, 401-404.	3.1	90
23	Chemical Characterization and Cycling of Dissolved Organic Matter. , 2015, , 21-63.		78
24	Carotenoid diagenesis in recent marine sediments. I. The Peru continental shelf (15°S, 75°W). <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 1001-1009.	3.9	76
25	Geochemical implications of the lipid composition of <i>Thioploca</i> spp. from the Peru upwelling region. <i>Organic Geochemistry</i> , 1989, 14, 61-68.	1.8	76
26	Novel pyropheophorbide sterol esters in Black Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2067-2074.	3.9	75
27	Detection of Iron Ligands in Seawater and Marine Cyanobacteria Cultures by High-Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 4357-4362.	6.5	75
28	Phosphate-limited ocean regions select for bacterial populations enriched in the carbon-phosphorus lyase pathway for phosphonate degradation. <i>Environmental Microbiology</i> , 2019, 21, 2402-2414.	3.8	73
29	Stable isotopic detection of ammonium and nitrate assimilation by phytoplankton in the Waquoit Bay estuarine system. <i>Limnology and Oceanography</i> , 2007, 52, 144-155.	3.1	70
30	Carotenoid transformations in coastal marine waters. <i>Nature</i> , 1982, 295, 51-54.	27.8	68
31	Distinct Siderophores Contribute to Iron Cycling in the Mesopelagic at Station ALOHA. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	67
32	The distribution and recycling of chlorophyll, bacteriochlorophyll and carotenoids in the Black Sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S969-S984.	1.5	66
33	Diversity and productivity of photosynthetic picoeukaryotes in biogeochemically distinct regions of the South Eastern Pacific Ocean. <i>Limnology and Oceanography</i> , 2016, 61, 806-824.	3.1	65
34	Daily changes in phytoplankton lipidomes reveal mechanisms of energy storage in the open ocean. <i>Nature Communications</i> , 2018, 9, 5179.	12.8	63
35	14C and 13C characteristics of higher plant biomarkers in Washington margin surface sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 105, 14-30.	3.9	61
36	The organic geochemistry of Peru margin surface sediments: II. Paleoenvironmental implications of hydrocarbon and alcohol profiles. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 483-498.	3.9	60

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37	Dissolved organic carbon in the Mid-Atlantic Bight. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4369-4385.	1.4	58
38	High molecular weight dissolved organic matter enrichment selects for methylotrophs in dilution to extinction cultures. <i>ISME Journal</i> , 2015, 9, 2725-2739.	9.8	58
39	An extended siderophore suite from <i>Synechococcus</i> sp. PCC 7002 revealed by LC-ICPMS-ESIMS. <i>Metallomics</i> , 2015, 7, 877-884.	2.4	53
40	Isolation and Characterization of Bacteria That Degrade Phosphonates in Marine Dissolved Organic Matter. <i>Frontiers in Microbiology</i> , 2017, 8, 1786.	3.5	49
41	Biogeochemical relationships between ultrafiltered dissolved organic matter and picoplankton activity in the Eastern Mediterranean Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1460-1477.	1.4	48
42	Allochthonous sources and dynamic cycling of ocean dissolved organic carbon revealed by carbon isotopes. <i>Geophysical Research Letters</i> , 2017, 44, 2407-2415.	4.0	48
43	Distinct dissolved organic matter sources induce rapid transcriptional responses in coexisting populations of <i>Prochlorococcus</i> , <i>Elagibacter</i> and the <i>OM60</i> clade. <i>Environmental Microbiology</i> , 2014, 16, 2815-2830.	3.8	47
44	Dissolved organic carbon on Georges Bank. <i>Continental Shelf Research</i> , 1996, 16, 409-420.	1.8	46
45	Particulate-dissolved transformations as a sink for semi-labile dissolved organic matter: Chemical characterization of high molecular weight dissolved and surface-active organic matter in seawater and in diatom cultures. <i>Marine Chemistry</i> , 2010, 121, 215-223.	2.3	45
46	Patterns of iron and siderophore distributions across the California Current System. <i>Limnology and Oceanography</i> , 2019, 64, 376-389.	3.1	41
47	The role of the picoeukaryote <i>Aureococcus anophagefferens</i> in cycling of marine high-molecular weight dissolved organic nitrogen. <i>Limnology and Oceanography</i> , 2003, 48, 1825-1830.	3.1	40
48	Deglacial pattern of circulation and marine productivity in the upwelling region off central-south Chile. <i>Earth and Planetary Science Letters</i> , 2008, 272, 221-230.	4.4	37
49	Isolation and structure determination of the unstable 132, 173-Cyclophosphoribide a enol from recent sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3743-3749.	3.9	36
50	Seasonal Shifts in Bacterial Community Responses to Phytoplankton-Derived Dissolved Organic Matter in the Western Antarctic Peninsula. <i>Frontiers in Microbiology</i> , 2017, 8, 2117.	3.5	35
51	Characterization of methyl sugars, 3-deoxysugars and methyl deoxysugars in marine high molecular weight dissolved organic matter. <i>Organic Geochemistry</i> , 2007, 38, 884-896.	1.8	34
52	Quantitative Transcriptomics Reveals the Growth- and Nutrient-Dependent Response of a Streamlined Marine Methylotroph to Methanol and Naturally Occurring Dissolved Organic Matter. <i>MBio</i> , 2016, 7, .	4.1	33
53	Phorbins in Black Sea sediment traps and sediments: A preliminary evaluation of their paleoceanographic potential. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4389-4399.	3.9	32
54	Phosphonate production by marine microbes: Exploring new sources and potential function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113386119.	7.1	31

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55	The purification of chlorins from marine particles and sediments for nitrogen and carbon isotopic analysis. <i>Organic Geochemistry</i> , 2000, 31, 317-329.	1.8	30
56	Carbon isotope measurements reveal unexpected cycling of dissolved organic matter in the deep Mediterranean Sea. <i>Marine Chemistry</i> , 2015, 177, 267-277.	2.3	30
57	Novel carotenol chlorin esters in marine sediments and water column particulate matter. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2825-2834.	3.9	28
58	Towards Integrating Evolution, Metabolism, and Climate Change Studies of Marine Ecosystems. <i>Trends in Ecology and Evolution</i> , 2019, 34, 1022-1033.	8.7	28
59	Structure Elucidation and Characterization of Polychlorinated Biphenyl Carboxylic Acids as Major Constituents of Chromophoric Dissolved Organic Matter in Seawater. <i>Environmental Science & Technology</i> , 2004, 38, 5373-5378.	10.0	27
60	Phosphorus dynamics in biogeochemically distinct regions of the southeast subtropical Pacific Ocean. <i>Progress in Oceanography</i> , 2017, 151, 261-274.	3.2	24
61	Phosphonate cycling supports methane and ethylene supersaturation in the phosphate-depleted western North Atlantic Ocean. <i>Limnology and Oceanography</i> , 2020, 65, 2443-2459.	3.1	23
62	Structural determination of purpurin-18 (as methyl ester) from sedimentary organic matter. <i>Organic Geochemistry</i> , 1999, 30, 189-193.	1.8	22
63	Periodate oxidation of marine high molecular weight dissolved organic matter: Evidence for a major contribution from 6-deoxy- and methyl sugars. <i>Marine Chemistry</i> , 2007, 105, 183-193.	2.3	22
64	Molecular level characterization of methyl sugars in marine high molecular weight dissolved organic matter. <i>Marine Chemistry</i> , 2013, 154, 34-45.	2.3	20
65	Iron Depletion in the Deep Chlorophyll Maximum: Mesoscale Eddies as Natural Iron Fertilization Experiments. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007112.	4.9	20
66	Bacterial Quorum-Sensing Signal Arrests Phytoplankton Cell Division and Impacts Virus-Induced Mortality. <i>MSphere</i> , 2021, 6, .	2.9	16
67	Source(s) and cycling of the nonhydrolyzable organic fraction of oceanic particles. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5162-5168.	3.9	15
68	Ultrasonic nebulization for the elemental analysis of microgram-level samples with offline aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1659-1671.	3.1	15
69	Dissolved organic carbon in basalt-hosted deep seafloor fluids of the Juan de Fuca Ridge flank. <i>Earth and Planetary Science Letters</i> , 2019, 513, 156-165.	4.4	15
70	Isolation and structure determination of two novel C(132)-OH bacteriopheophytin a allomers from a coastal salt pond sediment. <i>Organic Geochemistry</i> , 2002, 33, 849-854.	1.8	12
71	Contrasting degradation rates of natural dissolved organic carbon by deep-sea prokaryotes under stratified water masses and deep-water convection conditions in the NW Mediterranean Sea. <i>Marine Chemistry</i> , 2021, 231, 103932.	2.3	11
72	High molecular weight and acid extractable chlorophyll degradation products in the Black Sea: new sinks for chlorophyll. <i>Organic Geochemistry</i> , 1994, 21, 1243-1255.	1.8	10

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73	Revisiting the pink-red pigmented basidiomycete mirror yeast of the phyllosphere. <i>MicrobiologyOpen</i> , 2016, 5, 846-855.	3.0	10
74	Slow Kinetics of Iron Binding to Marine Ligands in Seawater Measured by Isotope Exchange Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry. <i>Environmental Science & Technology</i> , 2022, 56, 3770-3779.	10.0	9
75	Juveniles of the Atlantic coral, <i>Favia fragum</i> (Esper, 1797) do not invest energy to maintain calcification under ocean acidification. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 507, 61-69.	1.5	8
76	Carotenoid dehydrates in recent marine sediments. The structure and synthesis of fucoxanthin dehydrate. <i>Organic Geochemistry</i> , 1988, 12, 469-477.	1.8	7
77	Unifying chemical and biological perspectives of carbon accumulation in the environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	6
78	Dynamic proteome response of a marine <i>Vibrio</i> to a gradient of iron and ferrioxamine bioavailability. <i>Marine Chemistry</i> , 2021, 229, 103913.	2.3	5
79	13 C (S)-OH methyl bacteriopheophorbide a allomer in sedimentary organic matter. <i>Organic Geochemistry</i> , 2004, 35, 209-214.	1.8	4
80	Element-Selective Targeting of Nutrient Metabolites in Environmental Samples by Inductively Coupled Plasma Mass Spectrometry and Electrospray Ionization Mass Spectrometry. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
81	Organic geochemistry as a tool to study upwelling systems: recent results from the Peru and Namibian shelves. <i>Geological Society Special Publication</i> , 1992, 64, 257-272.	1.3	2
82	Chemocline of the Black Sea. <i>Nature</i> , 1993, 366, 415-416.	27.8	2
83	Sampling of basement fluids via Circulation Obviation Retrofit Kits (CORKs) for dissolved gases, fluid fixation at the seafloor, and the characterization of organic carbon. <i>MethodsX</i> , 2020, 7, 101033.	1.6	2
84	A sensitive fluorescent assay for measuring carbon-phosphorus lyase activity in aquatic systems. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 235-244.	2.0	2
85	IMBIZO II: JGOFS MEETS GLOBEC IN CRETE. <i>Limnology and Oceanography Bulletin</i> , 2010, 19, 82-83.	0.4	0