

Timothy G Ferdelman

List of Publications by Year in descending order

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102
papers

9,533
citations

43973

48
h-index

39575

94
g-index

110
all docs

110
docs citations

110
times ranked

8322
citing authors

#	ARTICLE	IF	CITATIONS
1	Niche partitioning by photosynthetic plankton as a driver of CO ₂ -fixation across the oligotrophic South Pacific Subtropical Ocean. <i>ISME Journal</i> , 2022, 16, 465-476.	4.4	10
2	Accumulation of DOC in the South Pacific Subtropical Gyre from a molecular perspective. <i>Marine Chemistry</i> , 2021, 231, 103955.	0.9	18
3	Metabolic activity analyses demonstrate that Lokiarchaeon exhibits homoacetogenesis in sulfidic marine sediments. <i>Nature Microbiology</i> , 2020, 5, 248-255.	5.9	48
4	Carbon recycling efficiency and phosphate turnover by marine nitrifying archaea. <i>Science Advances</i> , 2020, 6, eaba1799.	4.7	19
5	Phosphate availability affects fixed nitrogen transfer from diazotrophs to their epibionts. <i>ISME Journal</i> , 2019, 13, 2701-2713.	4.4	13
6	On-Site Analysis of Bacterial Communities of the Ultraoligotrophic South Pacific Gyre. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	27
7	Marine Deep Biosphere Microbial Communities Assemble in Near-Surface Sediments in Aarhus Bay. <i>Frontiers in Microbiology</i> , 2019, 10, 758.	1.5	54
8	<i>Arcobacter peruensis</i> sp. nov., a Chemolithoheterotroph Isolated from Sulfide- and Organic-Rich Coastal Waters off Peru. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	36
9	Single-cell imaging of phosphorus uptake shows that key harmful algae rely on different phosphorus sources for growth. <i>Scientific Reports</i> , 2018, 8, 17182.	1.6	44
10	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. <i>Nature Communications</i> , 2018, 9, 1729.	5.8	93
11	Methane fluxes in marine sediments quantified through core analyses and seismo-acoustic mapping (Bornholm Basin, Baltic Sea). <i>Geochimica Et Cosmochimica Acta</i> , 2018, 239, 255-274.	1.6	18
12	Iron-controlled oxidative sulfur cycling recorded in the distribution and isotopic composition of sulfur species in glacially influenced fjord sediments of west Svalbard. <i>Chemical Geology</i> , 2017, 466, 678-695.	1.4	33
13	Intense biological phosphate uptake onto particles in subeuphotic continental margin waters. <i>Geophysical Research Letters</i> , 2017, 44, 2825-2834.	1.5	5
14	Linking sedimentary sulfur and iron biogeochemistry to growth patterns of a cold-water coral mound in the Porcupine Basin, S.W. Ireland (IODP Expedition 307). <i>Geobiology</i> , 2015, 13, 424-442.	1.1	5
15	Cryptic Cross-Linkages Among Biogeochemical Cycles: Novel Insights from Reactive Intermediates. <i>Elements</i> , 2015, 11, 409-414.	0.5	35
16	Presence of oxygen and aerobic communities from sea floor to basement in deep-sea sediments. <i>Nature Geoscience</i> , 2015, 8, 299-304.	5.4	226
17	Community Structure and Activity of a Highly Dynamic and Nutrient-Limited Hypersaline Microbial Mat in Um Alhool Sabkha, Qatar. <i>PLoS ONE</i> , 2014, 9, e92405.	1.1	25
18	Determination of dissimilatory sulfate reduction rates in marine sediment via radioactive ³⁵ S tracer. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 196-211.	1.0	75

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19	Iron and manganese speciation and cycling in glacially influenced high-latitude fjord sediments (West Tj ETQq1 1 Cosmochimica Acta, 2014, 141, 628-655.	0.784314 1.6	88
20	Biogeochemical Consequences of the Sedimentary Subseafloor Biosphere. Developments in Marine Geology, 2014, 7, 217-252.	0.4	4
21	Calcium- ⁴⁵ ammonium exchange experiments on clay minerals using a ⁴⁵ Ca tracer technique in marine pore water. Isotopes in Environmental and Health Studies, 2014, 50, 1-17.	0.5	6
22	Sulfidization of lacustrine glacial clay upon Holocene marine transgression (Arkona Basin, Baltic) Tj ETQq0 0 0 Geochimica Et Cosmochimica Acta, 2013, 109, 175-196.	1.6	38
23	The environmental controls that govern the end product of bacterial nitrate respiration. Science, 2014, 345, 676-679.	6.0	391
24	Effect of the aerenchymatous helophyte <i>Glyceria maxima</i> on the sulfate-reducing communities in two contrasting riparian grassland soils. Plant and Soil, 2013, 370, 73-87.	1.8	2
25	The evolution of early diagenetic signals in Bering Sea subseafloor sediments in response to varying organic carbon deposition over the last 4.3Ma. Geochimica Et Cosmochimica Acta, 2013, 109, 175-196.	1.6	37
26	The Impact of Sediment and Carbon Fluxes on the Biogeochemistry of Methane and Sulfur in Littoral Baltic Sea Sediments (Himmerfjärden, Sweden). Estuaries and Coasts, 2013, 36, 98-115.	1.0	42
27	Control of sulphate and methane distributions in marine sediments by organic matter reactivity. Geochimica Et Cosmochimica Acta, 2013, 104, 183-193.	1.6	72
28	Intermediate sulfur oxidation state compounds in the euxinic surface sediments of the Dvurechenskii mud volcano (Black Sea). Geochimica Et Cosmochimica Acta, 2013, 105, 130-145.	1.6	38
29	Cyclic 100-ka (glacial-interglacial) migration of subseafloor redox zonation on the Peruvian shelf. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18098-18103.	3.3	35
30	Turnover of microbial lipids in the deep biosphere and growth of benthic archaeal populations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6010-6014.	3.3	99
31	The pH and pCO ₂ dependence of sulfate reduction in shallow-sea hydrothermal CO ₂ venting sediments (Milos Island, Greece). Frontiers in Microbiology, 2013, 4, 111.	1.5	34
32	Microbial activity in deep marine sediments: does pressure make the difference?. Journal of Physics: Conference Series, 2012, 377, 012054.	0.3	5
33	Mechanisms of damage to corals exposed to sedimentation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1558-67.	3.3	184
34	Interstitial fluid chemistry of sediments underlying the North Atlantic gyre and the influence of subsurface fluid flow. Earth and Planetary Science Letters, 2012, 323-324, 79-91.	1.8	77
35	Zero-valent sulphur is a key intermediate in marine methane oxidation. Nature, 2012, 491, 541-546.	13.7	498
36	Heterotrophic organisms dominate nitrogen fixation in the South Pacific Gyre. ISME Journal, 2012, 6, 1238-1249.	4.4	162

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37	Substrate-specific pressure-dependence of microbial sulfate reduction in deep-sea cold seep sediments of the Japan Trench. <i>Frontiers in Microbiology</i> , 2012, 3, 253.	1.5	23
38	Coupled organic and inorganic carbon cycling in the deep subseafloor sediment of the northeastern Bering Sea Slope (IODP Exp. 323). <i>Chemical Geology</i> , 2011, 284, 251-261.	1.4	79
39	A cryptic sulfur cycle driven by iron in the methane zone of marine sediment (Aarhus Bay, Denmark). <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3581-3599.	1.6	288
40	Phosphate oxygen isotopes: Insights into sedimentary phosphorus cycling from the Benguela upwelling system. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3741-3756.	1.6	68
41	Sulfate reduction below the sulfate-methane transition in Black Sea sediments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 493-504.	0.6	70
42	Comparative Study of Subseafloor Microbial Community Structures in Deeply Buried Coral Fossils and Sediment Matrices from the Challenger Mound in the Porcupine Seabight. <i>Frontiers in Microbiology</i> , 2011, 2, 231.	1.5	25
43	Biogeochemical sulfur cycling in the water column of a shallow stratified sea-water lake: Speciation and quadruple sulfur isotope composition. <i>Marine Chemistry</i> , 2011, 127, 144-154.	0.9	45
44	The imprint of methane seepage on the geochemical record and early diagenetic processes in cold-water coral mounds on Pen Duick Escarpment, Gulf of Cadiz. <i>Marine Geology</i> , 2011, 282, 118-137.	0.9	31
45	Carbon and sulfur back flux during anaerobic microbial oxidation of methane and coupled sulfate reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1484-90.	3.3	104
46	Linking microbial heterotrophic activity and sediment lithology in oxic, oligotrophic sub-seafloor sediments of the North Atlantic Ocean. <i>Frontiers in Microbiology</i> , 2011, 2, 263.	1.5	29
47	Oxidative sulfur cycling in the deep biosphere of the Nankai Trough, Japan. <i>Geology</i> , 2010, 38, 851-854.	2.0	33
48	Dynamics of zero-valent sulfur species including polysulfides at seep sites on intertidal sand flats (Wadden Sea, North Sea). <i>Marine Chemistry</i> , 2010, 121, 17-26.	0.9	51
49	High-pressure systems for gas-phase free continuous incubation of enriched marine microbial communities performing anaerobic oxidation of methane. <i>Biotechnology and Bioengineering</i> , 2010, 105, 524-533.	1.7	51
50	Effect of nitrate on sulfur transformations in sulfidogenic sludge of a marine aquaculture biofilter. <i>FEMS Microbiology Ecology</i> , 2010, 72, 476-484.	1.3	16
51	Microbial sequestration of phosphorus in anoxic upwelling sediments. <i>Nature Geoscience</i> , 2010, 3, 557-561.	5.4	214
52	Microbial conversion of inorganic carbon to dimethyl sulfide in anoxic lake sediment (PluÅsee, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1-	1.3	12
53	Methane at the sediment-water transition in Black Sea sediments. <i>Chemical Geology</i> , 2010, 274, 29-37.	1.4	22
54	The Pleistocene Cooling Built Challenger Mound, a Deep-water Coral Mound in the NE Atlantic: Synthesis from IODP Expedition 307. <i>The Sedimentary Record</i> , 2010, 8, 4-9.	0.4	4

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55	Oxygen penetration deep into the sediment of the South Pacific gyre. <i>Biogeosciences</i> , 2009, 6, 1467-1478.	1.3	58
56	Carbon mineralization and carbonate preservation in modern cold-water coral reef sediments on the Norwegian shelf. <i>Biogeosciences</i> , 2009, 6, 663-680.	1.3	29
57	Subseafloor sedimentary life in the South Pacific Gyre. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11651-11656.	3.3	261
58	Variability in upwelling intensity and nutrient regime in the coastal upwelling system offshore Namibia: results from sediment archives. <i>International Journal of Earth Sciences</i> , 2009, 98, 309-326.	0.9	31
59	Subsurface microbiology and biogeochemistry of a deep, cold-water carbonate mound from the Porcupine Seabight (IODP Expedition 307). <i>Environmental Microbiology</i> , 2009, 11, 239-257.	1.8	68
60	Protocol for Quantitative Detection of Elemental Sulfur and Polysulfide Zero-valent Sulfur Distribution in Natural Aquatic Samples. <i>Geostandards and Geoanalytical Research</i> , 2009, 33, 415-435.	1.7	77
61	A Constant Flux of Diverse Thermophilic Bacteria into the Cold Arctic Seabed. <i>Science</i> , 2009, 325, 1541-1544.	6.0	189
62	Impact of Nitrate on the Structure and Function of Bacterial Biofilm Communities in Pipelines Used for Injection of Seawater into Oil Fields. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2841-2851.	1.4	90
63	Age constraints on the origin and growth history of a deep-water coral mound in the northeast Atlantic drilled during Integrated Ocean Drilling Program Expedition 307. <i>Geology</i> , 2007, 35, 1051.	2.0	124
64	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.	1.6	46
65	Instantaneous benthic response to different organic matter quality: In situ experiments in the Benguela Upwelling System. <i>Marine Biology Research</i> , 2007, 3, 342-356.	0.3	25
66	Microbial diversity in deep sediments of the Benguela Upwelling System. <i>Aquatic Microbial Ecology</i> , 2007, 50, 1-9.	0.9	13
67	Spatial patterns of aerobic and anaerobic mineralization rates and oxygen penetration dynamics in coral reef sediments. <i>Marine Ecology - Progress Series</i> , 2006, 309, 93-105.	0.9	53
68	Transport and mineralization rates in North Sea sandy intertidal sediments, Sylt-Rømø Basin, Wadden Sea. <i>Limnology and Oceanography</i> , 2005, 50, 113-127.	1.6	188
69	Prokaryotic cells of the deep sub-seafloor biosphere identified as living bacteria. <i>Nature</i> , 2005, 433, 861-864.	13.7	413
70	Deep sub-seafloor prokaryotes stimulated at interfaces over geological time. <i>Nature</i> , 2005, 436, 390-394.	13.7	414
71	Spatial distribution of calcification and photosynthesis in the scleractinian coral <i>Galaxea fascicularis</i> . <i>Coral Reefs</i> , 2005, 24, 173-180.	0.9	39
72	Chlorin Index: A new parameter for organic matter freshness in sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	1.0	52

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73	Distributions of Microbial Activities in Deep Subseafloor Sediments. <i>Science</i> , 2004, 306, 2216-2221.	6.0	681
74	Shallow gas in shelf sediments of the Namibian coastal upwelling ecosystem. <i>Continental Shelf Research</i> , 2004, 24, 627-642.	0.9	112
75	A cold chromium distillation procedure for radiolabeled sulfide applied to sulfate reduction measurements. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 171-180.	1.0	263
76	A high-pressure thermal gradient block for investigating microbial activity in multiple deep-sea samples. <i>Journal of Microbiological Methods</i> , 2003, 55, 165-172.	0.7	33
77	Influence of water column dynamics on sulfide oxidation and other major biogeochemical processes in the chemocline of Mariager Fjord (Denmark). <i>Marine Chemistry</i> , 2001, 74, 29-51.	0.9	142
78	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. <i>Nature</i> , 2001, 411, 298-302.	13.7	196
79	Organic matter composition and sulfate reduction rates in sediments off Chile. <i>Organic Geochemistry</i> , 2000, 31, 351-361.	0.9	47
80	Bacterial activity in sediments of the deep Arabian Sea in relation to vertical flux. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 2835-2875.	0.6	95
81	Sulfate reduction and methane oxidation in continental margin sediments influenced by irrigation (South-East Atlantic off Namibia). <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 897-910.	1.6	160
82	Sulfate reduction in surface sediments of the southeast Atlantic continental margin between 15°38'S and 27°57'S (Angola and Namibia). <i>Limnology and Oceanography</i> , 1999, 44, 650-661.	1.6	92
83	Dense Populations of a Giant Sulfur Bacterium in Namibian Shelf Sediments. <i>Science</i> , 1999, 284, 493-495.	6.0	453
84	Structural and Functional Dynamics of Sulfate-Reducing Populations in Bacterial Biofilms. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3731-3739.	1.4	250
85	Sulfate reduction and methanogenesis in a Thioploca-dominated sediment off the coast of Chile. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3065-3079.	1.6	176
86	Shelfbreak frontal structure on the continental shelf north of Cape Hatteras. <i>Continental Shelf Research</i> , 1996, 16, 1751-1773.	0.9	37
87	Salt marshes: An important coastal sink for dissolved uranium. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3879-3887.	1.6	65
88	Distribution of bacterial populations in a stratified fjord (Mariager Fjord, Denmark) quantified by in situ hybridization and related to chemical gradients in the water column. <i>Applied and Environmental Microbiology</i> , 1996, 62, 1391-1404.	1.4	177
89	Bio-volatilization of polonium: Results from laboratory analyses. <i>Aquatic Geochemistry</i> , 1995, 1, 175-188.	1.5	47
90	An efficient quantitative technique for the simultaneous analyses of radon daughters 210Pb, 210Bi and 210Po. <i>Talanta</i> , 1994, 41, 243-249.	2.9	22

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91	Voltammetric characterization of iron(II) sulfide complexes in laboratory solutions and in marine waters and porewaters. <i>Environmental Science & Technology</i> , 1993, 27, 1154-1163.	4.6	62
92	Metal transport and release processes in Lake Vanda: The role of oxide phases. <i>Antarctic Research Series</i> , 1993, , 145-163.	0.2	12
93	Large-scale penetration of Gulf Stream water onto the Continental Shelf north of Cape Hatteras. <i>Geophysical Research Letters</i> , 1992, 19, 373-376.	1.5	27
94	Iodine chemistry in the water column of the Chesapeake Bay: Evidence for organic iodine forms. <i>Estuarine, Coastal and Shelf Science</i> , 1991, 32, 267-279.	0.9	66
95	Sulfur enrichment of humic substances in a Delaware salt marsh sediment core. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 979-988.	1.6	142
96	Temporal and spatial variability of reduced sulfur species (FeS_2 , $\text{S}_2\text{O}_3^{2-}$) and porewater parameters in salt marsh sediments. <i>Biogeochemistry</i> , 1991, 14, 57-88.	1.7	87
97	Geochemical processes in the Lake Fryxell Basin (Victoria Land, Antarctica). , 1989, , 129-148.		16
98	Geochemical processes in the Lake Fryxell Basin (Victoria Land, Antarctica). <i>Hydrobiologia</i> , 1989, 172, 129-148.	1.0	40
99	Metal dynamics in Lake Vanda (Wright Valley, Antarctica). <i>Chemical Geology</i> , 1989, 76, 85-94.	1.4	29
100	Evidence Suggesting Anaerobic Oxidation of the Bisulfide Ion in Chesapeake Bay. <i>Estuaries and Coasts</i> , 1988, 11, 281.	1.7	33
101	The Residence times of eight trace metals in a closed-basin Antarctic Lake: Lake Hoare. <i>Hydrobiologia</i> , 1986, 134, 249-255.	1.0	22
102	IODP Expedition 307 Drills Cold-Water Coral Mound Along the Irish Continental Margin. <i>Scientific Drilling</i> , 0, 2, 11-16.	1.0	9