

# Timothy G Ferdelman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7037729/publications.pdf>

Version: 2024-02-01

102  
papers

9,533  
citations

44069

48  
h-index

39675

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 <sub>2</sub> -fixation across the oligotrophic South Pacific Subtropical Ocean. ISME Journal, 2022, 16, 465-476.	9.8	10
2	Accumulation of DOC in the South Pacific Subtropical Gyre from a molecular perspective. Marine Chemistry, 2021, 231, 103955.	2.3	18
3	Metabolic activity analyses demonstrate that Lokiarchaeon exhibits homoacetogenesis in sulfidic marine sediments. Nature Microbiology, 2020, 5, 248-255.	13.3	48
4	Carbon recycling efficiency and phosphate turnover by marine nitrifying archaea. Science Advances, 2020, 6, eaba1799.	10.3	19
5	Phosphate availability affects fixed nitrogen transfer from diazotrophs to their epibionts. ISME Journal, 2019, 13, 2701-2713.	9.8	13
6	On-Site Analysis of Bacterial Communities of the Ultraoligotrophic South Pacific Gyre. Applied and Environmental Microbiology, 2019, 85, .	3.1	27
7	Marine Deep Biosphere Microbial Communities Assemble in Near-Surface Sediments in Aarhus Bay. Frontiers in Microbiology, 2019, 10, 758.	3.5	54
8	<i>Arcobacter peruensis</i> sp. nov., a Chemolithoheterotroph Isolated from Sulfide- and Organic-Rich Coastal Waters off Peru. Applied and Environmental Microbiology, 2019, 85, .	3.1	36
9	Single-cell imaging of phosphorus uptake shows that key harmful algae rely on different phosphorus sources for growth. Scientific Reports, 2018, 8, 17182.	3.3	44
10	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. Nature Communications, 2018, 9, 1729.	12.8	93
11	Methane fluxes in marine sediments quantified through core analyses and seismo-acoustic mapping (Bornholm Basin, Baltic Sea). Geochimica Et Cosmochimica Acta, 2018, 239, 255-274.	3.9	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. Chemical Geology, 2017, 466, 678-695.	3.3	33
13	Intense biological phosphate uptake onto particles in subeuphotic continental margin waters. Geophysical Research Letters, 2017, 44, 2825-2834.	4.0	5
14	Linking sedimentary sulfur and iron biogeochemistry to growth patterns of a coldâ€water coral mound in the Porcupine Basin, S.W. Ireland (IODP Expedition 307). Geobiology, 2015, 13, 424-442.	2.4	5
15	Cryptic Cross-Linkages Among Biogeochemical Cycles: Novel Insights from Reactive Intermediates. Elements, 2015, 11, 409-414.	0.5	35
16	Presence of oxygen and aerobic communities from sea floor to basement in deep-sea sediments. Nature Geoscience, 2015, 8, 299-304.	12.9	226
17	Community Structure and Activity of a Highly Dynamic and Nutrient-Limited Hypersaline Microbial Mat in Um Alhool Sabkha, Qatar. PLoS ONE, 2014, 9, e92405.	2.5	25
18	Determination of dissimilatory sulfate reduction rates in marine sediment via radioactive <sup>35</sup> S tracer. Limnology and Oceanography: Methods, 2014, 12, 196-211.	2.0	75

#	ARTICLE	IF	CITATIONS
19	Iron and manganese speciation and cycling in glacially influenced high-latitude fjord sediments (West Tj ETQq1 1 0.784314 rgBT /Overl Cosmochimica Acta, 2014, 141, 628-655.	3.9	88
20	Biogeochemical Consequences of the Sedimentary Subseafloor Biosphere. Developments in Marine Geology, 2014, 7, 217-252.	0.4	4
21	Calcium&#x2013;ammonium exchange experiments on clay minerals using a45Ca tracer technique in marine pore water. Isotopes in Environmental and Health Studies, 2014, 50, 1-17.	1.0	6
22	Sulfidization of lacustrine glacial clay upon Holocene marine transgression (Arkona Basin, Baltic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	3.9	38
23	The environmental controls that govern the end product of bacterial nitrate respiration. Science, 2014, 345, 676-679.	12.6	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.	3.7	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.	3.9	37
26	The Impact of Sediment and Carbon Fluxes on the Biogeochemistry of Methane and Sulfur in Littoral Baltic Sea Sediments (Himmerfj�rden, Sweden). Estuaries and Coasts, 2013, 36, 98-115.	2.2	42
27	Control of sulphate and methane distributions in marine sediments by organic matter reactivity. Geochimica Et Cosmochimica Acta, 2013, 104, 183-193.	3.9	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.	3.9	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.	7.1	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.	7.1	99
31	The pH and pCO2 dependence of sulfate reduction in shallow-sea hydrothermal CO2 &#x201c; venting sediments (Milos Island, Greece). Frontiers in Microbiology, 2013, 4, 111.	3.5	34
32	Microbial activity in deep marine sediments: does pressure make the difference?. Journal of Physics: Conference Series, 2012, 377, 012054.	0.4	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.	7.1	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.	4.4	77
35	Zero-valent sulphur is a key intermediate in marine methane oxidation. Nature, 2012, 491, 541-546.	27.8	498
36	Heterotrophic organisms dominate nitrogen fixation in the South Pacific Gyre. ISME Journal, 2012, 6, 1238-1249.	9.8	162

#	ARTICLE	IF	CITATIONS
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.	3.5	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.	3.3	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.	3.9	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.	3.9	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.	1.4	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.	3.5	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.	2.3	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.	2.1	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.	7.1	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.	3.5	29
47	Oxidative sulfur cycling in the deep biosphere of the Nankai Trough, Japan. <i>Geology</i> , 2010, 38, 851-854.	4.4	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.	2.3	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.	3.3	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.	2.7	16
51	Microbial sequestration of phosphorus in anoxic upwelling sediments. <i>Nature Geoscience</i> , 2010, 3, 557-561.	12.9	214
52	Microbial conversion of inorganic carbon to dimethyl sulfide in anoxic lake sediment (PluÅŸsee, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	3.3	12
53	Methane at the sediment-water transition in Black Sea sediments. <i>Chemical Geology</i> , 2010, 274, 29-37.	3.3	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.	0.6	4

#	ARTICLE	IF	CITATIONS
55	Oxygen penetration deep into the sediment of the South Pacific gyre. <i>Biogeosciences</i> , 2009, 6, 1467-1478.	3.3	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.	3.3	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.	7.1	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.	1.8	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.	3.8	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.	3.1	77
61	A Constant Flux of Diverse Thermophilic Bacteria into the Cold Arctic Seabed. <i>Science</i> , 2009, 325, 1541-1544.	12.6	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.	3.1	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.	4.4	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.	3.9	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.	0.7	25
66	Microbial diversity in deep sediments of the Benguela Upwelling System. <i>Aquatic Microbial Ecology</i> , 2007, 50, 1-9.	1.8	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.	1.9	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.	3.1	188
69	Prokaryotic cells of the deep sub-seafloor biosphere identified as living bacteria. <i>Nature</i> , 2005, 433, 861-864.	27.8	413
70	Deep sub-seafloor prokaryotes stimulated at interfaces over geological time. <i>Nature</i> , 2005, 436, 390-394.	27.8	414
71	Spatial distribution of calcification and photosynthesis in the scleractinian coral <i>Galaxea fascicularis</i> . <i>Coral Reefs</i> , 2005, 24, 173-180.	2.2	39
72	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

#	ARTICLE	IF	CITATIONS
73	Distributions of Microbial Activities in Deep Subseafloor Sediments. <i>Science</i> , 2004, 306, 2216-2221.	12.6	681
74	Shallow gas in shelf sediments of the Namibian coastal upwelling ecosystem. <i>Continental Shelf Research</i> , 2004, 24, 627-642.	1.8	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.	2.0	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.	1.6	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.	2.3	142
78	Endosymbiotic sulphate-reducing and sulphide-oxidizing bacteria in an oligochaete worm. <i>Nature</i> , 2001, 411, 298-302.	27.8	196
79	Organic matter composition and sulfate reduction rates in sediments off Chile. <i>Organic Geochemistry</i> , 2000, 31, 351-361.	1.8	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.	1.4	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.	3.9	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.	3.1	92
83	Dense Populations of a Giant Sulfur Bacterium in Namibian Shelf Sediments. <i>Science</i> , 1999, 284, 493-495.	12.6	453
84	Structural and Functional Dynamics of Sulfate-Reducing Populations in Bacterial Biofilms. <i>Applied and Environmental Microbiology</i> , 1998, 64, 3731-3739.	3.1	250
85	Sulfate reduction and methanogenesis in a <i>Thioploca</i> -dominated sediment off the coast of Chile. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3065-3079.	3.9	176
86	Shelfbreak frontal structure on the continental shelf north of Cape Hatteras. <i>Continental Shelf Research</i> , 1996, 16, 1751-1773.	1.8	37
87	Salt marshes: An important coastal sink for dissolved uranium. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3879-3887.	3.9	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.	3.1	177
89	Bio-volatilization of polonium: Results from laboratory analyses. <i>Aquatic Geochemistry</i> , 1995, 1, 175-188.	1.3	47
90	An efficient quantitative technique for the simultaneous analyses of radon daughters <sup>210</sup> Pb, <sup>210</sup> Bi and <sup>210</sup> Po. <i>Talanta</i> , 1994, 41, 243-249.	5.5	22

#	ARTICLE	IF	CITATIONS
91	Voltammetric characterization of iron(II) sulfide complexes in laboratory solutions and in marine waters and porewaters. <i>Environmental Science &amp; Technology</i> , 1993, 27, 1154-1163.	10.0	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.	4.0	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.	2.1	66
95	Sulfur enrichment of humic substances in a Delaware salt marsh sediment core. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 979-988.	3.9	142
96	Temporal and spatial variability of reduced sulfur species ( $\text{FeS}_2$ , $\text{S}_2\text{O}_3^{2-}$ ) and porewater parameters in salt marsh sediments. <i>Biogeochemistry</i> , 1991, 14, 57-88.	3.5	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.	2.0	40
99	Metal dynamics in Lake Vanda (Wright Valley, Antarctica). <i>Chemical Geology</i> , 1989, 76, 85-94.	3.3	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.	2.0	22
102	IODP Expedition 307 Drills Cold-Water Coral Mound Along the Irish Continental Margin. <i>Scientific Drilling</i> , 0, 2, 11-16.	0.6	9