

Hans RÃy

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,640
citations

117571

34
h-index

149623

56
g-index

83
all docs

83
docs citations

83
times ranked

3831
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the isotopic composition of sedimentary sulfide: A multiple sulfur isotope diagenetic model for Aarhus Bay. <i>Numerische Mathematik</i> , 2022, 322, 1-27.	0.7	7
2	Methane production controls in a young thermokarst lake formed by abrupt permafrost thaw. <i>Global Change Biology</i> , 2022, 28, 3206-3221.	4.2	7
3	Nitrite is a more efficient inhibitor of microbial sulfate reduction in oil reservoirs compared to nitrate and perchlorate: A laboratory and field-scale simulation study. <i>International Biodeterioration and Biodegradation</i> , 2021, 157, 105154.	1.9	17
4	Psychrophilic properties of sulfate-reducing bacteria in Arctic marine sediments. <i>Limnology and Oceanography</i> , 2021, 66, S293.	1.6	8
5	Insolation vs. meltwater control of productivity and sea surface conditions off SW Greenland during the Holocene. <i>Boreas</i> , 2021, 50, 631-651.	1.2	9
6	Potentially bioavailable iron produced through benthic cycling in glaciated Arctic fjords of Svalbard. <i>Nature Communications</i> , 2021, 12, 1349.	5.8	26
7	Early diagenesis of sulfur in Bornholm Basin sediments: The role of upward diffusion of isotopically heavy sulfide. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 313, 359-377.	1.6	7
8	Reactivity of Iron Minerals in the Seabed Toward Microbial Reduction – A Comparison of Different Extraction Techniques. <i>Geomicrobiology Journal</i> , 2020, 37, 170-189.	1.0	22
9	Holocene sedimentary and environmental development of Aarhus Bay, Denmark – a multi-proxy study. <i>Boreas</i> , 2020, 49, 108-128.	1.2	5
10	Glacial controls on redox-sensitive trace element cycling in Arctic fjord sediments (Spitsbergen, Svalbard). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 43-60.	1.6	19
11	Constraints on CaCO ₃ precipitation in superabsorbent polymer by aerobic bacteria. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 365-375.	1.7	16
12	Physicochemical and biological controls of sulfide accumulation in a high temperature oil reservoir. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8467-8478.	1.7	7
13	Early diagenesis of iron and sulfur in Bornholm Basin sediments: The role of near-surface pyrite formation. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 43-60.	1.6	33
14	Macrofaunal control of microbial community structure in continental margin sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15911-15922.	3.3	40
15	Glacial influence on the iron and sulfur cycles in Arctic fjord sediments (Svalbard). <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 423-440.	1.6	20
16	The Polyextremophilic Bacterium <i>Clostridium paradoxum</i> Attains Piezophilic Traits by Modulating Its Energy Metabolism and Cell Membrane Composition. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	18
17	Controls on volatile fatty acid concentrations in marine sediments (Baltic Sea). <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 226-241.	1.6	38
18	Marine Deep Biosphere Microbial Communities Assemble in Near-Surface Sediments in Aarhus Bay. <i>Frontiers in Microbiology</i> , 2019, 10, 758.	1.5	54

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37	The marine sulfate reducer <i>Desulfobacterium autotrophicum</i> HRM2 can switch between low and high apparent half-saturation constants for dissimilatory sulfate reduction. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	1.3	24
38	Estimating the Abundance of Endospores of Sulfate-Reducing Bacteria in Environmental Samples by Inducing Germination and Exponential Growth. <i>Geomicrobiology Journal</i> , 2017, 34, 338-345.	1.0	11
39	Identity, Abundance, and Reactivation Kinetics of Thermophilic Fermentative Endospores in Cold Marine Sediment and Seawater. <i>Frontiers in Microbiology</i> , 2017, 8, 131.	1.5	29
40	Off Limits: Sulfate below the Sulfate-Methane Transition. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	25
41	The Guaymas Basin Hiking Guide to Hydrothermal Mounds, Chimneys, and Microbial Mats: Complex Seafloor Expressions of Subsurface Hydrothermal Circulation. <i>Frontiers in Microbiology</i> , 2016, 7, 75.	1.5	82
42	Evidence for the Existence of Autotrophic Nitrate-Reducing Fe(II)-Oxidizing Bacteria in Marine Coastal Sediment. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6120-6131.	1.4	68
43	Controls on subsurface methane fluxes and shallow gas formation in Baltic Sea sediment (Aarhus) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	57
44	Coexistence of Microaerophilic, Nitrate-Reducing, and Phototrophic Fe(II) Oxidizers and Fe(III) Reducers in Coastal Marine Sediment. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1433-1447.	1.4	76
45	Formate, acetate, and propionate as substrates for sulfate reduction in sub-arctic sediments of Southwest Greenland. <i>Frontiers in Microbiology</i> , 2015, 6, 846.	1.5	76
46	Ubiquitous Presence and Novel Diversity of Anaerobic Alkane Degraders in Cold Marine Sediments. <i>Frontiers in Microbiology</i> , 2015, 6, 1414.	1.5	30
47	Ammonia-oxidizing Bacteria of the Nitrosospira cluster 1 dominate over ammonia-oxidizing Archaea in oligotrophic surface sediments near the South Atlantic Gyre. <i>Environmental Microbiology Reports</i> , 2015, 7, 404-413.	1.0	22
48	Redox gradients at the low oxygen boundary of lakes. <i>Aquatic Sciences</i> , 2015, 77, 81-93.	0.6	13
49	Methanogenesis in sediments of an intertidal sand flat in the Wadden Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 164, 39-45.	0.9	4
50	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
51	Modern applications for a total sulfur reduction distillation method - what's old is new again. <i>Geochemical Transactions</i> , 2014, 15, 4.	1.8	21
52	Direct analysis of volatile fatty acids in marine sediment porewater by two-dimensional ion chromatography-mass spectrometry. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 455-468.	1.0	46
53	Endospore abundance and d:l-amino acid modeling of bacterial turnover in holocene marine sediment (Aarhus Bay). <i>Geochimica Et Cosmochimica Acta</i> , 2012, 99, 87-99.	1.6	72
54	In Situ Oxygen Dynamics in Coral-Algal Interactions. <i>PLoS ONE</i> , 2012, 7, e31192.	1.1	63

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55	Aerobic Microbial Respiration in 86-Million-Year-Old Deep-Sea Red Clay. <i>Science</i> , 2012, 336, 922-925.	6.0	190
56	Concurrent low- and high-affinity sulfate reduction kinetics in marine sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2997-3010.	1.6	61
57	Bacterial sulfur cycling shapes microbial communities in surface sediments of an ultramafic hydrothermal vent field. <i>Environmental Microbiology</i> , 2011, 13, 2633-2648.	1.8	51
58	Motility patterns of filamentous sulfur bacteria, <i>Beggiatoa</i> spp.. <i>FEMS Microbiology Ecology</i> , 2011, 77, 176-185.	1.3	18
59	Temperature regulation of gliding motility in filamentous sulfur bacteria, <i>Beggiatoa</i> spp.. <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	1.3	11
60	Filamentous sulfur bacteria, <i>Beggiatoa</i> spp., in arctic marine sediments (Svalbard, 79°N). <i>FEMS Microbiology Ecology</i> , 2010, 73, no-no.	1.3	31
61	Oxygen penetration deep into the sediment of the South Pacific gyre. <i>Biogeosciences</i> , 2009, 6, 1467-1478.	1.3	58
62	Sulfide assimilation by ectosymbionts of the sessile ciliate, <i>Zoothamnium niveum</i> . <i>Marine Biology</i> , 2009, 156, 669-677.	0.7	7
63	Oxygen dynamics and transport in the Mediterranean sponge <i>Aplysina aerophoba</i> . <i>Marine Biology</i> , 2008, 153, 1257-1264.	0.7	87
64	Video-supported Analysis of <i>Beggiatoa</i> Filament Growth, Breakage, and Movement. <i>Microbial Ecology</i> , 2008, 56, 484-491.	1.4	25
65	Biogeochemistry and Community Composition of Iron- and Sulfur-Precipitating Microbial Mats at the Chefred Mud Volcano (Nile Deep Sea Fan, Eastern Mediterranean). <i>Applied and Environmental Microbiology</i> , 2008, 74, 3198-3215.	1.4	137
66	Tide-driven deep porewater flow in intertidal sand flats. <i>Limnology and Oceanography</i> , 2008, 53, 1521-1530.	1.6	53
67	Eddy correlation flux measurements: The sediment surface area that contributes to the flux. <i>Limnology and Oceanography</i> , 2007, 52, 1672-1684.	1.6	118
68	Oxygen dynamics and flow patterns of <i>Dysidea avara</i> (Porifera: Demospongiae). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2007, 87, 1677-1682.	0.4	22
69	Benthic photosynthesis in submerged Wadden Sea intertidal flats. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 71, 704-716.	0.9	75
70	Advective relief of CO ₂ limitation in microphytobenthos in highly productive sandy sediments. <i>Limnology and Oceanography</i> , 2006, 51, 1594-1601.	1.6	60
71	The influence of topography on the functional exchange surface of marine soft sediments, assessed from sediment topography measured in situ. <i>Limnology and Oceanography</i> , 2005, 50, 106-112.	1.6	29
72	Wave-induced H ₂ S flux sustains a chemoautotrophic symbiosis. <i>Limnology and Oceanography</i> , 2005, 50, 128-133.	1.6	21

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73	Role of pelletization in mineralization of fine-grained coastal sediments. Marine Ecology - Progress Series, 2005, 291, 23-33.	0.9	22
74	Transmission of oxygen concentration fluctuations through the diffusive boundary layer overlying aquatic sediments. Limnology and Oceanography, 2004, 49, 686-692.	1.6	34
75	Hydrodynamical impact on biogeochemical processes in aquatic sediments. Hydrobiologia, 2003, 494, 231-236.	1.0	126
76	Seasonal dynamics of benthic O ₂ uptake in a semienclosed bay: Importance of diffusion and faunal activity. Limnology and Oceanography, 2003, 48, 1265-1276.	1.6	133
77	Hydrodynamical impact on biogeochemical processes in aquatic sediments. , 2003, , 231-236.		57
78	Oxygen uptake by aquatic sediments measured with a novel non-invasive eddy-correlation technique. Marine Ecology - Progress Series, 2003, 261, 75-83.	0.9	229
79	The role of small-scale sediment topography for oxygen flux across the diffusive boundary layer. Limnology and Oceanography, 2002, 47, 837-847.	1.6	80
80	14 Experimental assessment of community metabolism in the subsurface. , 0, , .		1