Frank WenzhÃ¶fer

List of Publications by Year
in descending order

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Version: 2024-02-01

66	4,206	117625	114465
papers	citations	34 h-index	63 g-index

77	77	77	4527
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A vast icefish breeding colony discovered in the Antarctic. Current Biology, 2022, 32, 842-850.e4.	3.9	27
2	The hadal zone is an important and heterogeneous sink of black carbon in the ocean. Communications Earth & Environment, 2022, 3, .	6.8	14
3	Sediment oxygen consumption: Role in the global marine carbon cycle. Earth-Science Reviews, 2022, 228, 103987.	9.1	50
4	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. Limnology and Oceanography, 2021, 66, 2095-2109.	3.1	18
5	Distribution, Source, and Burial of Sedimentary Organic Carbon in Kermadec and Atacama Trenches. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006189.	3.0	16
6	High mercury accumulation in deep-ocean hadal sediments. Scientific Reports, 2021, 11, 10970.	3.3	24
7	Eurythenes atacamensis sp. nov. (Crustacea: Amphipoda) exhibits ontogenetic vertical stratification across abyssal and hadal depths in the Atacama Trench, eastern South Pacific Ocean. Marine Biodiversity, 2021, 51, 51.	1.0	9
8	Microbial community structure in hadal sediments: high similarity along trench axes and strong changes along redox gradients. ISME Journal, 2021, 15, 3455-3467.	9.8	29
9	Plankton respiration in the Atacama Trench region: Implications for particulate organic carbon flux into the hadal realm. Limnology and Oceanography, 2021, 66, 3134-3148.	3.1	10
10	Hadal trenches are dynamic hotspots for early diagenesis in the deep sea. Communications Earth & Environment, 2021, 2, .	6.8	49
11	Glacial melt disturbance shifts community metabolism of an Antarctic seafloor ecosystem from net autotrophy to heterotrophy. Communications Biology, 2021, 4, 148.	4.4	13
12	Anammox bacteria drive fixed nitrogen loss in hadal trench sediments. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
13	Sea-ice derived meltwater stratification slows the biological carbon pump: results from continuous observations. Nature Communications, 2021, 12, 7309.	12.8	31
14	Effects of a deep-sea mining experiment on seafloor microbial communities and functions after 26 years. Science Advances, 2020, 6, eaaz5922.	10.3	64
15	PlasPI marine cameras: Open-source, affordable camera systems for time series marine studies. HardwareX, 2020, 7, e00102.	2.2	6
16	Variability in Benthic Ecosystem Functioning in Arctic Shelf and Deep-Sea Sediments: Assessments by Benthic Oxygen Uptake Rates and Environmental Drivers. Frontiers in Marine Science, 2020, 7, .	2.5	1
17	Glycerol dialkyl glycerol tetraethers in surface sediments from three Pacific trenches: Distribution, source and environmental implications. Organic Geochemistry, 2020, 147, 104079.	1.8	18
18	The contribution of microbial communities in polymetallic nodules to the diversity of the deep-sea microbiome of the Peru Basin (4130â€“4198â€‰m depth). Biogeosciences, 2020, 17, 3203-3222.	3.3	26

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19	Implications of Glacial Melt-Related Processes on the Potential Primary Production of a Microphytobenthic Community in Potter Cove (Antarctica). Frontiers in Marine Science, 2019, 6, .	2.5	12
20	Depression chains in seafloor of contrasting morphology, Atacama Trench margin: a comment on Marshet al.(2018). Royal Society Open Science, 2019, 6, 182053.	2.4	7
21	CO ₂ leakage alters biogeochemical and ecological functions of submarine sands. Science Advances, 2018, 4, eaao2040.	10.3	27
22	Benthic Carbon Mineralization in Hadal Trenches: Insights From In Situ Determination of Benthic Oxygen Consumption. Geophysical Research Letters, 2018, 45, 2752-2760.	4.0	54
23	Carbon and nitrogen turnover in the Arctic deep sea: in situ benthic community response to diatom and coccolithophorid phytodetritus. Biogeosciences, 2018, 15, 6537-6557.	3.3	13
24	Spatial variability of biogeochemistry in shallow coastal benthic communities of Potter Cove (Antarctica) and the impact of a melting glacier. PLoS ONE, 2018, 13, e0207917.	2.5	14
25	Deep-sea benthic communities and oxygen fluxes in the Arctic Fram Strait controlled by sea-ice cover and water depth. Biogeosciences, 2018, 15, 4849-4869.	3.3	19
26	Oxygen fluxes beneath Arctic land-fast ice and pack ice: towards estimates of ice productivity. Polar Biology, 2018, 41, 2119-2134.	1.2	10
27	Biogeochemical impact of submarine ground water discharge on coastal surface sands of the southern Baltic Sea. Estuarine, Coastal and Shelf Science, 2017, 189, 131-142.	2.1	27
28	Survey of sediment oxygenation in rhizospheres of the saltmarsh grass - Spartina anglica. Science of the Total Environment, 2017, 589, 191-199.	8.0	31
29	Temporal and Spatial Variations of Bacterial and Faunal Communities Associated with Deep-Sea Wood Falls. PLoS ONE, 2017, 12, e0169906.	2.5	41
30	Assessing benthic oxygen fluxes in oligotrophic deep sea sediments (HAUSGARTEN observatory). Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 111, 1-10.	1.4	32
31	Comparison between infaunal communities of the deep floor and edge of the Tonga Trench: Possible effects of differences in organic matter supply. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 116, 264-275.	1.4	52
32	Spatial scales of bacterial community diversity at cold seeps (Eastern Mediterranean Sea). ISME Journal, 2015, 9, 1306-1318.	9.8	69
33	The Dynamics of Plant-Mediated Sediment Oxygenation in Spartina anglica Rhizospheresâ€"a Planar Optode Study. Estuaries and Coasts, 2015, 38, 951-963.	2.2	50
34	Distribution of algal aggregates under summer sea ice in the Central Arctic. Polar Biology, 2015, 38, 719-731.	1.2	39
35	An Assessment of the Precision and Confidence of Aquatic Eddy Correlation Measurements. Journal of Atmospheric and Oceanic Technology, 2015, 32, 642-655.	1.3	35
36	Eruption of a deep-sea mud volcano triggers rapid sediment movement. Nature Communications, 2014, 5, 5385.	12.8	50

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37	Methane fluxes and carbonate deposits at a cold seep area of the Central Nile Deep Sea Fan, Eastern Mediterranean Sea. Marine Geology, 2014, 347, 27-42.	2.1	65
38	Recent sediment dynamics in hadal trenches: Evidence for the influence of higher-frequency (tidal,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	62
39	Composition, Buoyancy Regulation and Fate of Ice Algal Aggregates in the Central Arctic Ocean. PLoS ONE, 2014, 9, e107452.	2.5	101
40	Seafloor oxygen consumption fuelled by methane from cold seeps. Nature Geoscience, 2013, 6, 725-734.	12.9	409
41	Export of Algal Biomass from the Melting Arctic Sea Ice. Science, 2013, 339, 1430-1432.	12.6	383
42	High rates of microbial carbon turnover in sediments in the deepest oceanic trench on Earth. Nature Geoscience, 2013, 6, 284-288.	12.9	262
43	Effects of transient bottom water currents and oxygen concentrations on benthic exchange rates as assessed by eddy correlation measurements. Journal of Geophysical Research: Oceans, 2013, 118, 1157-1169.	2.6	55
44	Limitations of microbial hydrocarbon degradation at the Amon mud volcano (Nile deep-sea fan). Biogeosciences, 2013, 10, 3269-3283.	3.3	22
45	How Deep-Sea Wood Falls Sustain Chemosynthetic Life. PLoS ONE, 2013, 8, e53590.	2.5	113
46	Oxygen optodes as fast sensors for eddy correlation measurements in aquatic systems. Limnology and Oceanography: Methods, 2012, 10, 304-316.	2.0	44
47	In situ measurements of hydrogen sulfide, oxygen, and temperature in diffuse fluids of an ultramafic-hosted hydrothermal vent field (Logatchev, 14Â°45â€²N, Mid-Atlantic Ridge): Implications for chemosymbiotic bathymodiolin mussels. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	18
48	A novel, matâ€forming Thiomargarita population associated with a sulfidic fluid flow from a deepâ€sea mud volcano. Environmental Microbiology, 2011, 13, 495-505.	3.8	30
49	Bacterial sulfur cycling shapes microbial communities in surface sediments of an ultramafic hydrothermal vent field. Environmental Microbiology, 2011, 13, 2633-2648.	3.8	51
50	A novel planar optode setup for concurrent oxygen and light field imaging: Application to a benthic phototrophic community. Limnology and Oceanography: Methods, 2010, 8, 254-268.	2.0	18
51	Methane and sulfide fluxes in permanent anoxia: In situ studies at the Dvurechenskii mud volcano (Sorokin Trough, Black Sea). Geochimica Et Cosmochimica Acta, 2010, 74, 5002-5018.	3.9	26
52	In situ microscale variation in distribution and consumption of ₂ : A case study from a deep ocean margin sediment (Sagami Bay, Japan). Limnology and Oceanography, 2009, 54, 1-12.	3.1	62
53	Nitrogen cycling in a deep ocean margin sediment (Sagami Bay, Japan). Limnology and Oceanography, 2009, 54, 723-734.	3.1	94
54	Benthic solute exchange and carbon mineralization in two shallow subtidal sandy sediments: Effect of advective poreâ€water exchange. Limnology and Oceanography, 2007, 52, 1943-1963.	3.1	125

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55	Spatial distribution and activity of viruses in the deep-sea sediments of Sagami Bay, Japan. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 1-13.	1.4	52
56	Quantification of denitrification in permeable sediments: Insights from a twoâ€dimensional simulation analysis and experimental data. Limnology and Oceanography: Methods, 2006, 4, 294-307.	2.0	77
57	Transport and mineralization rates in North Sea sandy intertidal sediments, Sylt-RÃ¸mÃ¸ Basin, Wadden Sea. Limnology and Oceanography, 2005, 50, 113-127.	3.1	188
58	Distribution of oxygen in surface sediments from central Sagami Bay, Japan: In situ measurements by microelectrodes and planar optodes. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 1974-1987.	1.4	71
59	Smallâ€scale spatial and temporal variability in coastal benthic O₂ dynamics: Effects of fauna activity. Limnology and Oceanography, 2004, 49, 1471-1481.	3.1	186
60	In situmacrofaunal respiration rates and their importance for benthic carbon mineralization on the northwestern Black Sea shelf. Ophelia, 2002, 56, 87-100.	0.3	10
61	Benthic carbon mineralization in the Atlantic: a synthesis based on in situ data from the last decade. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1255-1279.	1.4	159
62	Benthic Carbon Mineralization in Sediments of Gotland Basin, Baltic Sea, Measured In Situ with Benthic Landers. ACS Symposium Series, 2002, , 162-185.	0.5	3
63	Deep penetrating benthic oxygen profiles measured in situ by oxygen optodes. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 1741-1755.	1.4	56
64	Sulfate reduction in Black Sea sediments: in situ and laboratory radiotracer measurements from the shelf to 2000m depth. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 2073-2096.	1.4	43
65	Early diagenesis of organic matter from sediments of the eastern subtropical Atlantic: evidence from stable nitrogen and carbon isotopes. Geochimica Et Cosmochimica Acta, 2001, 65, 1795-1808.	3.9	317
66	In situ microsensor studies of a shallow water hydrothermal vent at Milos, Greece. Marine Chemistry, 2000, 69, 43-54.	2.3	87