

Anna Lichtschlag

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,930
citations

279487

23
h-index

264894

42
g-index

57
all docs

57
docs citations

57
times ranked

2366
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon. <i>Biogeosciences</i> , 2014, 11, 1215-1259.	1.3	175
2	Biological and chemical sulfide oxidation in a Beggiatoa inhabited marine sediment. <i>ISME Journal</i> , 2007, 1, 341-353.	4.4	170
3	Detection and impacts of leakage from sub-seafloor deep geological carbon dioxide storage. <i>Nature Climate Change</i> , 2014, 4, 1011-1016.	8.1	159
4	Hypoxia causes preservation of labile organic matter and changes seafloor microbial community composition (Black Sea). <i>Science Advances</i> , 2017, 3, e1601897.	4.7	145
5	Niche differentiation among mat-forming, sulfide-oxidizing bacteria at cold seeps of the Nile Deep Sea Fan (Eastern Mediterranean Sea). <i>Geobiology</i> , 2011, 9, 330-348.	1.1	101
6	Marine baseline and monitoring strategies for carbon dioxide capture and storage (CCS). <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 221-229.	2.3	89
7	A novel sub-seabed CO ₂ release experiment informing monitoring and impact assessment for geological carbon storage. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 3-17.	2.3	64
8	Quantification of the effects of ocean acidification on sediment microbial communities in the environment: the importance of ecosystem approaches. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw027.	1.3	52
9	Detection of CO ₂ leakage from a simulated sub-seabed storage site using three different types of pCO ₂ sensors. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 121-134.	2.3	51
10	Mats of psychrophilic thiotrophic bacteria associated with cold seeps of the Barents Sea. <i>Biogeosciences</i> , 2012, 9, 2947-2960.	1.3	47
11	Effect of a controlled sub-seabed release of CO ₂ on the biogeochemistry of shallow marine sediments, their pore waters, and the overlying water column. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 80-92.	2.3	47
12	Habitat heterogeneity influences cold-seep macrofaunal communities within and among seeps along the Norwegian margin. Part 1: macrofaunal community structure. <i>Marine Ecology</i> , 2012, 33, 205-230.	0.4	45
13	Geochemical processes and chemosynthetic primary production in different thiotrophic mats of the Håkon Mosby Mud Volcano (Barents Sea). <i>Limnology and Oceanography</i> , 2010, 55, 931-949.	1.6	43
14	Stability of dissolved and soluble Fe(II) in shelf sediment pore waters and release to an oxic water column. <i>Biogeochemistry</i> , 2017, 135, 49-67.	1.7	43
15	Impact and recovery of pH in marine sediments subject to a temporary carbon dioxide leak. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 93-101.	2.3	42
16	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO ₂ release. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103237.	2.3	39
17	Intermediate sulfur oxidation state compounds in the euxinic surface sediments of the Dvurechenskii mud volcano (Black Sea). <i>Geochimica Et Cosmochimica Acta</i> , 2013, 105, 130-145.	1.6	38
18	Environment, ecology, and potential effectiveness of an area protected from deep-sea mining (Clarion) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	36

#	ARTICLE	IF	CITATIONS
19	Pockmarks in the Witch Ground Basin, Central North Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1698-1719.	1.0	35
20	Sulfurization of dissolved organic matter in the anoxic water column of the Black Sea. <i>Science Advances</i> , 2021, 7, .	4.7	34
21	Geochemical processes and chemosynthetic primary production in different thiotrophic mats of the HÅ¥kon Mosby Mud Volcano (Barents Sea). <i>Limnology and Oceanography</i> , 2010, 55, 931-949.	1.6	34
22	Controls on the chemical composition of ferromanganese nodules in the Clarion-Clipperton Fracture Zone, eastern equatorial Pacific. <i>Marine Geology</i> , 2019, 409, 1-14.	0.9	31
23	A novel, matâ€forming <i>Thiomargarita</i> population associated with a sulfidic fluid flow from a deepâ€sea mud volcano. <i>Environmental Microbiology</i> , 2011, 13, 495-505.	1.8	30
24	Methane and sulfide fluxes in permanent anoxia: In situ studies at the Dvurechenskii mud volcano (Sorokin Trough, Black Sea). <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5002-5018.	1.6	26
25	Limitations of microbial hydrocarbon degradation at the Amon mud volcano (Nile deep-sea fan). <i>Biogeosciences</i> , 2013, 10, 3269-3283.	1.3	22
26	Time-lapse imaging of CO2 migration within near-surface sediments during a controlled sub-seabed release experiment. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103363.	2.3	22
27	Anaerobic methane oxidation inducing carbonate precipitation at abiogenic methane seeps in the Tuscan archipelago (Italy). <i>PLoS ONE</i> , 2018, 13, e0207305.	1.1	21
28	Impact of CO2 leakage from sub-seabed carbon dioxide storage on sediment and porewater geochemistry. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103352.	2.3	21
29	Experimental assessment of pore fluid distribution and geomechanical changes in saline sandstone reservoirs during and after CO 2 injection. <i>International Journal of Greenhouse Gas Control</i> , 2017, 63, 356-369.	2.3	18
30	Seismic chimney characterisation in the North Sea â€ Implications for pockmark formation and shallow gas migration. <i>Marine and Petroleum Geology</i> , 2021, 133, 105301.	1.5	17
31	Suitability analysis and revised strategies for marine environmental carbon capture and storage (CCS) monitoring. <i>International Journal of Greenhouse Gas Control</i> , 2021, 112, 103510.	2.3	17
32	Effects of fluctuating hypoxia on benthic oxygen consumption in the Black Sea (Crimean shelf). <i>Biogeosciences</i> , 2015, 12, 5075-5092.	1.3	16
33	Meiobenthos of the Oxidic/Anoxic Interface in the Southwestern Region of the Black Sea: Abundance and Taxonomic Composition. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 369-401.	0.3	15
34	Distribution and Composition of Thiotrophic Mats in the Hypoxic Zone of the Black Sea (150â€170 m) Tj ETQq0 0,0,rgBT /Overlock 10	1.5	15
35	Title is missing!. <i>Turkish Journal of Fisheries and Aquatic Sciences</i> , 2013, 13, .	0.4	15
36	Using Unoccupied Aerial Vehicles (UAVs) to Map Seagrass Cover from Sentinel-2 Imagery. <i>Remote Sensing</i> , 2022, 14, 477.	1.8	14

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37	Multiscale characterisation of chimneys/pipes: Fluid escape structures within sedimentary basins. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103245.	2.3	13
38	Utility of natural and artificial geochemical tracers for leakage monitoring and quantification during an offshore controlled CO ₂ release experiment. <i>International Journal of Greenhouse Gas Control</i> , 2021, 111, 103421.	2.3	13
39	Novel observations of <i>Thiobacterium</i> , a sulfur-storing Gammaproteobacterium producing gelatinous mats. <i>ISME Journal</i> , 2010, 4, 1031-1043.	4.4	12
40	Contrasting Estuarine Processing of Dissolved Organic Matter Derived From Natural and Human-impacted Landscapes. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007023.	1.9	12
41	Defining a biogeochemical baseline for sediments at Carbon Capture and Storage (CCS) sites: An example from the North Sea (Goldeneye). <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103265.	2.3	11
42	Sediment acidification and temperature increase in an artificial CO ₂ vent. <i>International Journal of Greenhouse Gas Control</i> , 2021, 105, 103244.	2.3	9
43	Efficient marine environmental characterisation to support monitoring of geological CO ₂ storage. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103388.	2.3	8
44	Numerical modelling of CO ₂ migration in heterogeneous sediments and leakage scenario for STEMM-CCS field experiments. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103339.	2.3	8
45	Quantifying the Intra-Habitat Variation of Seagrass Beds with Unoccupied Aerial Vehicles (UAVs). <i>Remote Sensing</i> , 2022, 14, 480.	1.8	8
46	Assuring the integrity of offshore carbon dioxide storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112670.	8.2	8
47	Mineralogical and geochemical analysis of Fe-phases in drill-cores from the Triassic Stuttgart Formation at Ketzin CO ₂ storage site before CO ₂ arrival. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	7
48	Core-scale geophysical and hydromechanical analysis of seabed sediments affected by CO ₂ venting. <i>International Journal of Greenhouse Gas Control</i> , 2021, 108, 103332.	2.3	6
49	Phosphorus behavior in sediments during a sub-seabed CO ₂ controlled release experiment. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 102-109.	2.3	5
50	Increased Fluid Flow Activity in Shallow Sediments at the 3 km Long Hugin Fracture in the Central North Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2-20.	1.0	3
51	Impact of shallow-water hydrothermal seepage on benthic biogeochemical cycling, nutrient availability, and meiobenthic communities in a tropical coral reef. <i>Limnology and Oceanography</i> , 2022, 67, 567-584.	1.6	1