

Mark Schmidt

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,234
citations

331670

21
h-index

395702

33
g-index

54
all docs

54
docs citations

54
times ranked

1897
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial Diversity of the Brine-Seawater Interface of the Kebrüt Deep, Red Sea, Studied via 16S rRNA Gene Sequences and Cultivation Methods. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3077-3085.	3.1	133
2	Prokaryotic phylogenetic diversity and corresponding geochemical data of the brine-seawater interface of the Shaban Deep, Red Sea. <i>Environmental Microbiology</i> , 2002, 4, 758-763.	3.8	98
3	A Portable and Autonomous Mass Spectrometric System for On-Site Environmental Gas Analysis. <i>Environmental Science & Technology</i> , 2016, 50, 13455-13463.	10.0	71
4	Quantification of methane emissions at abandoned gas wells in the Central North Sea. <i>Marine and Petroleum Geology</i> , 2015, 68, 848-860.	3.3	69
5	Strike-slip faults mediate the rise of crustal-derived fluids and mud volcanism in the deep sea. <i>Geology</i> , 2015, 43, 339-342.	4.4	56
6	Microbial methanogenesis in the sulfate-reducing zone of sediments in the Eckernförde Bay, SW Baltic Sea. <i>Biogeosciences</i> , 2018, 15, 137-157.	3.3	51
7	Marine Transform Faults and Fracture Zones: A Joint Perspective Integrating Seismicity, Fluid Flow and Life. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	46
8	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.	4.6	39
9	Deconstructing Methane Emissions from a Small Northern European River: Hydrodynamics and Temperature as Key Drivers. <i>Environmental Science & Technology</i> , 2016, 50, 11680-11687.	10.0	37
10	Glacigenic sedimentation pulses triggered post-glacial gas hydrate dissociation. <i>Nature Communications</i> , 2018, 9, 635.	12.8	35
11	Pockmarks in the Witch Ground Basin, Central North Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1698-1719.	2.5	35
12	Footprint and detectability of a well leaking CO ₂ in the Central North Sea: Implications from a field experiment and numerical modelling. <i>International Journal of Greenhouse Gas Control</i> , 2019, 84, 190-203.	4.6	33
13	Fault zone controlled seafloor methane seepage in the rupture area of the 2010 M _{aule} earthquake, Central Chile. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4802-4813.	2.5	32
14	Linked sediment and water column methanotrophy at a man-made gas blowout in the North Sea: Implications for methane budgeting in seasonally stratified shallow seas. <i>Limnology and Oceanography</i> , 2016, 61, S367.	3.1	31
15	Offshore Freshened Groundwater in Continental Margins. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000706.	23.0	31
16	Shelf-to-basin iron shuttle in the Guaymas Basin, Gulf of California. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 76-92.	3.9	28
17	Continuous inline mapping of a dissolved methane plume at a blowout site in the Central North Sea UK using a membrane inlet mass spectrometer – Water column stratification impedes immediate methane release into the atmosphere. <i>Marine and Petroleum Geology</i> , 2015, 68, 766-775.	3.3	27
18	Boron isotope systematics of cultured brachiopods: Response to acidification, vital effects and implications for palaeo-pH reconstruction. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 248, 370-386.	3.9	27

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19	UV absorption cross-section data for the hypochlorites ROCl (R = 1/4 H, CH ₃ , C ₂ H ₅ , i-C ₃ H ₇ , tert-C ₄ H ₉). Journal of Photochemistry and Photobiology A: Chemistry, 1995, 91, 1-6.	3.9	26
20	Impact of ambient conditions on the Si isotope fractionation in marine pore fluids during early diagenesis. Biogeosciences, 2020, 17, 1745-1763.	3.3	26
21	On the formation of hydrothermal vents and cold seeps in the Guaymas Basin, Gulf of California. Biogeosciences, 2018, 15, 5715-5731.	3.3	25
22	Natural CO ₂ Seeps Offshore Panarea: A Test Site for Subsea CO ₂ Leak Detection Technology. Marine Technology Society Journal, 2015, 49, 19-30.	0.4	22
23	Shallow Gas Migration along Hydrocarbon Wells – An Unconsidered, Anthropogenic Source of Biogenic Methane in the North Sea. Environmental Science & Technology, 2017, 51, 10262-10268.	10.0	21
24	Simulating and Quantifying Multiple Natural Subsea CO ₂ Seeps at Panarea Island (Aeolian) Tj ETQq0 0 0 rgBT /Overlock 10 Science & Technology, 2019, 53, 10258-10268.	10.0	19
25	The removal of methylene blue as a remedy of dye-based marine pollution: a photocatalytic perspective. Research on Chemical Intermediates, 2020, 46, 755-768.	2.7	17
26	Neotectonics of the Sea of Galilee (northeast Israel): implication for geodynamics and seismicity along the Dead Sea Fault system. Scientific Reports, 2020, 10, 11932.	3.3	17
27	Thermocline mixing and vertical oxygen fluxes in the stratified central North Sea. Biogeosciences, 2016, 13, 1609-1620.	3.3	15
28	Novel Online Digital Video and High-Speed Data Broadcasting via Standard Coaxial Cable Onboard Marine Operating Vessels. Marine Technology Society Journal, 2015, 49, 7-18.	0.4	14
29	Self-stabilization mechanism in ultra-stable Fourier domain mode-locked (FDML) lasers. OSA Continuum, 2020, 3, 1589.	1.8	14
30	High-Speed Antenna-Coupled Terahertz Thermocouple Detectors and Mixers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4236-4246.	4.6	13
31	Effects of postglacial seawater intrusion on sediment geochemical characteristics in the Romanian sector of the Black Sea. Marine and Petroleum Geology, 2021, 123, 104746.	3.3	13
32	Formation and migration of hydrocarbons in deeply buried sediments of the Gulf of Cadiz convergent plate boundary - Insights from the hydrocarbon and helium isotope geochemistry of mud volcano fluids. Marine Geology, 2019, 410, 56-69.	2.1	12
33	Water column baseline assessment for offshore Carbon Dioxide Capture and Storage (CCS) sites: Analysis of field data from the Goldeneye storage complex area. International Journal of Greenhouse Gas Control, 2021, 109, 103344.	4.6	12
34	Mobile underwater in situ gamma-ray spectroscopy to localize groundwater emanation from pockmarks in the Eckernförde bay, Germany. Applied Radiation and Isotopes, 2018, 140, 305-313.	1.5	11
35	Interactions between temperature and energy supply drive microbial communities in hydrothermal sediment. Communications Biology, 2021, 4, 1006.	4.4	10
36	A Nanostructured Long-Wave Infrared Range Thermocouple Detector. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 335-343.	3.1	9

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37	Quantification of dissolved CO ₂ plumes at the Goldeneye CO ₂ -release experiment. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103387.	4.6	9
38	Oil and gas seepage offshore Georgia (Black Sea) – Geochemical evidences for a paleogene-neogene hydrocarbon source rock. <i>Marine and Petroleum Geology</i> , 2021, 128, 104995.	3.3	8
39	Hydrocarbon Degradation in Caspian Sea Sediment Cores Subjected to Simulated Petroleum Seepage in a Newly Designed Sediment-Oil-Flow-Through System. <i>Frontiers in Microbiology</i> , 2017, 8, 763.	3.5	7
40	Intensity pattern types in broadband Fourier domain mode-locked (FDML) lasers operating beyond the ultra-stable regime. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	2.2	7
41	Incorporation of minor and trace elements into cultured brachiopods: Implications for proxy application with new insights from a biomineralisation model. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 286, 418-440.	3.9	6
42	Focused methane migration formed pipe structures in permeable sandstones: Insights from uncrewed aerial vehicle-based digital outcrop analysis in Varna, Bulgaria. <i>Sedimentology</i> , 2021, 68, 2765-2782.	3.1	5
43	Nitrous oxide in the northern Gulf of Aqaba and the central Red Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 90-103.	1.4	4
44	Environmental impact assessment of desalination plants through observations and modeling over Central Red Sea-Yanbu and Rabig. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	3
45	Deviations from environmental baseline: Detection of subsea CO ₂ release in the water column from real-time measurements at a potential offshore Carbon Dioxide Storage site. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103369.	4.6	3
46	Measurement of Inter-Sweep Phase Stability of an FDML Laser with a 10 kHz Tunable Ring Laser. , 2019, , .		2
47	A tidal-influenced hydrothermal system temporarily cooled by a tropical storm. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 393, 106792.	2.1	2
48	Thermal small steps staircase and layer migration in the Atlantis II Deep, Red Sea. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	1
49	Modeling of the Ultra-Stable Operating Regime in Fourier Domain Mode Locked (FDML) Lasers. , 2019, , .		1
50	Coexistence of Intensity Pattern Types in Broadband Fourier Domain Mode Locked (FDML) Lasers. , 2019, , .		0