

# Gerhard Bohrmann

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2383253/gerhard-bohrmann-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

185  
papers

8,214  
citations

52  
h-index

84  
g-index

208  
ext. papers

9,165  
ext. citations

4.7  
avg, IF

5.64  
L-index

#	Paper	IF	Citations
185	Contribution of Southern Ocean surface-water stratification to low atmospheric CO <sub>2</sub> concentrations during the last glacial period. <i>Nature</i> , <b>1997</b> , 389, 929-935	50.4	492
184	Gas hydrate destabilization: enhanced dewatering, benthic material turnover and large methane plumes at the Cascadia convergent margin. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 170, 1-15	5.3	333
183	Authigenic carbonates from the Cascadia subduction zone and their relation to gas hydrate stability. <i>Geology</i> , <b>1998</b> , 26, 647	5	314
182	Barite fronts in continental margin sediments: a new look at barium remobilization in the zone of sulfate reduction and formation of heavy barites in diagenetic fronts. <i>Chemical Geology</i> , <b>1996</b> , 127, 125-139	4.3	308
181	Three-dimensional distribution of gas hydrate beneath southern Hydrate Ridge: constraints from ODP Leg 204. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 222, 845-862	5.3	235
180	Gas hydrate growth, methane transport, and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia margin off Oregon. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 226, 225-241	5.3	223
179	Jiulong methane reef: Microbial mediation of seep carbonates in the South China Sea. <i>Marine Geology</i> , <b>2008</b> , 249, 243-256	3.3	161
178	U/Th systematics and ages of authigenic carbonates from Hydrate Ridge, Cascadia Margin: recorders of fluid flow variations. <i>Geochimica Et Cosmochimica Acta</i> , <b>2003</b> , 67, 3845-3857	5.5	151
177	Chemoherms on Hydrate Ridge Unique microbially-mediated carbonate build-ups growing into the water column. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2005</b> , 227, 67-85	2.9	137
176	Quantifying fluid flow, solute mixing, and biogeochemical turnover at cold vents of the eastern Aleutian subduction zone. <i>Geochimica Et Cosmochimica Acta</i> , <b>1997</b> , 61, 5209-5219	5.5	125
175	Massive barite deposits and carbonate mineralization in the Derugin Basin, Sea of Okhotsk: precipitation processes at cold seep sites. <i>Earth and Planetary Science Letters</i> , <b>2002</b> , 203, 165-180	5.3	125
174	Similar glacial and interglacial export bioproductivity in the Atlantic Sector of the Southern Ocean: Multiproxy evidence and implications for glacial atmospheric CO <sub>2</sub> . <i>Paleoceanography</i> , <b>2000</b> , 15, 642-658		113
173	Asphalt volcanism and chemosynthetic life in the Campeche Knolls, Gulf of Mexico. <i>Science</i> , <b>2004</b> , 304, 999-1002	33.3	110
172	Rare earth elements in authigenic methane-seep carbonates as tracers for fluid composition during early diagenesis. <i>Chemical Geology</i> , <b>2010</b> , 277, 126-136	4.2	108
171	Oxygen isotopes of marine diatoms and relations to opal-A maturation. <i>Geochimica Et Cosmochimica Acta</i> , <b>2001</b> , 65, 201-211	5.5	106
170	Formation of modern and Paleozoic stratiform barite at cold methane seeps on continental margins. <i>Geology</i> , <b>2003</b> , 31, 897	5	105
169	Mud volcanoes and gas hydrates in the Black Sea: new data from Dvurechenskii and Odessa mud volcanoes. <i>Geo-Marine Letters</i> , <b>2003</b> , 23, 239-249	1.9	105

168	Barium accumulation in the Atlantic sector of the Southern Ocean: Results From 190,000-year records. <i>Paleoceanography</i> , <b>1997</b> , 12, 594-603		102
167	Fluid venting in the eastern Aleutian Subduction Zone. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 2597-2614		97
166	Temporal and spatial evolution of a gas hydrate-bearing accretionary ridge on the Oregon continental margin. <i>Geology</i> , <b>1999</b> , 27, 939	5	95
165	Authigenic carbonates from methane seeps of the northern Congo fan: Microbial formation mechanism. <i>Marine and Petroleum Geology</i> , <b>2010</b> , 27, 748-756	4.7	91
164	Patterns of carbonate authigenesis at the Kouilou pockmarks on the Congo deep-sea fan. <i>Marine Geology</i> , <b>2010</b> , 268, 129-136	3.3	90
163	Hydroacoustic methodology for detection, localization, and quantification of gas bubbles rising from the seafloor at gas seeps from the eastern Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	86
162	Quantification of gas bubble emissions from submarine hydrocarbon seeps at the Makran continental margin (offshore Pakistan). <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		84
161	Pockmarks in the Northern Congo Fan area, SW Africa: Complex seafloor features shaped by fluid flow. <i>Marine Geology</i> , <b>2008</b> , 249, 206-225	3.3	84
160	Subduction zone earthquake as potential trigger of submarine hydrocarbon seepage. <i>Nature Geoscience</i> , <b>2013</b> , 6, 647-651	18.3	81
159	Molecular and isotopic partitioning of low-molecular-weight hydrocarbons during migration and gas hydrate precipitation in deposits of a high-flux seepage site. <i>Chemical Geology</i> , <b>2010</b> , 269, 350-363	4.2	81
158	Methane discharge into the Black Sea and the global ocean via fluid flow through submarine mud volcanoes. <i>Earth and Planetary Science Letters</i> , <b>2006</b> , 248, 545-560	5.3	81
157	Widespread fluid expulsion along the seafloor of the Costa Rica convergent margin. <i>Terra Nova</i> , <b>2002</b> , 14, 69-79	3	81
156	The effect of dissolved barium on biogeochemical processes at cold seeps. <i>Geochimica Et Cosmochimica Acta</i> , <b>2004</b> , 68, 1735-1748	5.5	81
155	Authigenic barites and fluxes of barium associated with fluid seeps in the Peru subduction zone. <i>Earth and Planetary Science Letters</i> , <b>1996</b> , 144, 469-481	5.3	79
154	Geological control and magnitude of methane ebullition from a high-flux seep area in the Black Sea: The Kerch seep area. <i>Marine Geology</i> , <b>2012</b> , 319-322, 57-74	3.3	76
153	Vodyanitskii mud volcano, Sorokin trough, Black Sea: Geological characterization and quantification of gas bubble streams. <i>Marine and Petroleum Geology</i> , <b>2009</b> , 26, 1799-1811	4.7	74
152	Stromatolitic fabric of authigenic carbonate crusts: result of anaerobic methane oxidation at cold seeps in 4,850 m water depth. <i>International Journal of Earth Sciences</i> , <b>2002</b> , 91, 698-711	2.2	74
151	Widespread methane seepage along the continental margin off Svalbard - from Bjerknes to Kongsfjorden. <i>Scientific Reports</i> , <b>2017</b> , 7, 42997	4.9	71

150	Acoustic investigation of cold seeps offshore Georgia, eastern Black Sea. <i>Marine Geology</i> , <b>2006</b> , 231, 51-67	3.3	71
149	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. <i>Nature Communications</i> , <b>2018</b> , 9, 83	17.4	67
148	Formation of seep carbonates along the Makran convergent margin, northern Arabian Sea and a molecular and isotopic approach to constrain the carbon isotopic composition of parent methane. <i>Chemical Geology</i> , <b>2015</b> , 415, 102-117	4.2	64
147	Pockmark formation and evolution in deep water Nigeria: Rapid hydrate growth versus slow hydrate dissolution. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 2679-2694	3.6	63
146	Interaction between hydrocarbon seepage, chemosynthetic communities, and bottom water redox at cold seeps of the Makran accretionary prism: insights from habitat-specific pore water sampling and modeling. <i>Biogeosciences</i> , <b>2012</b> , 9, 2013-2031	4.6	63
145	Gas Hydrate-Associated Carbonates and Methane-Venting at Hydrate Ridge: Classification, Distribution, and Origin of Authigenic Lithologies. <i>Geophysical Monograph Series</i> , <b>2013</b> , 99-113	1.1	63
144	Fluid expulsion from the Dvurechenskii mud volcano (Black Sea) Part I. Fluid sources and relevance to Li, B, Sr, I and dissolved inorganic nitrogen cycles. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 225, 347-363	5.3	63
143	Clathrites: Archives of near-seafloor pore-fluid evolution ( $\delta^{14}C/40Ca$ , $\delta^{13}C$ , $\delta^{18}O$ ) in gas hydrate environments. <i>Geology</i> , <b>2005</b> , 33, 213	5	60
142	Development and application of pressure-core-sampling systems for the investigation of gas- and gas-hydrate-bearing sediments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2008</b> , 55, 1590-1599	2.5	58
141	Pure siliceous ooze, a diagenetic environment for early chert formation. <i>Geology</i> , <b>1994</b> , 22, 207	5	58
140	Gas emissions at the continental margin west of Svalbard: mapping, sampling, and quantification. <i>Biogeosciences</i> , <b>2014</b> , 11, 6029-6046	4.6	56
139	Oxygen isotopes in marine diatoms: A comparative study of analytical techniques and new results on the isotope composition of recent marine diatoms. <i>Geochimica Et Cosmochimica Acta</i> , <b>1997</b> , 61, 2275-2280	5.5	56
138	Fluid sources, fluid pathways and diagenetic reactions across an accretionary prism revealed by Sr and B geochemistry. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 239, 106-121	5.3	56
137	Short-chain alkanes fuel mussel and sponge <i>Cycloclasticus</i> symbionts from deep-sea gas and oil seeps. <i>Nature Microbiology</i> , <b>2017</b> , 2, 17093	26.6	55
136	Rare earth element geochemistry in cold-seep pore waters of Hydrate Ridge, northeast Pacific Ocean. <i>Geo-Marine Letters</i> , <b>2013</b> , 33, 369-379	1.9	55
135	Acoustic investigations of mud volcanoes in the Sorokin Trough, Black Sea. <i>Geo-Marine Letters</i> , <b>2003</b> , 23, 230-238	1.9	53
134	Methane fluxes and carbonate deposits at a cold seep area of the Central Nile Deep Sea Fan, Eastern Mediterranean Sea. <i>Marine Geology</i> , <b>2014</b> , 347, 27-42	3.3	52
133	U/Th dating of cold-seep carbonates: An initial comparison. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2010</b> , 57, 2055-2060	2.3	51

132	Biogeochemistry of a low-activity cold seep in the Larsen B area, western Weddell Sea, Antarctica. <i>Biogeosciences</i> , <b>2009</b> , 6, 2383-2395	4.6	51
131	Active tectonics of the Calabrian subduction revealed by new multi-beam bathymetric data and high-resolution seismic profiles in the Ionian Sea (Central Mediterranean). <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 461, 61-72	5.3	50
130	Flammable Ice. <i>Scientific American</i> , <b>1999</b> , 281, 76-83	0.5	50
129	Gas hydrates in shallow deposits of the Amsterdam mud volcano, Anaximander Mountains, Northeastern Mediterranean Sea. <i>Geo-Marine Letters</i> , <b>2010</b> , 30, 187-206	1.9	49
128	Hydrocarbon gases in deposits from mud volcanoes in the Sorokin Trough, north-eastern Black Sea. <i>Geo-Marine Letters</i> , <b>2003</b> , 23, 250-257	1.9	49
127	Microstructures of structure I and II gas hydrates from the Gulf of Mexico. <i>Marine and Petroleum Geology</i> , <b>2010</b> , 27, 116-125	4.7	46
126	Mixed gas hydrate structures at the Chapopote Knoll, southern Gulf of Mexico. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 299, 207-217	5.3	45
125	Biogeochemical controls on authigenic carbonate formation at the Chapopote asphalt volcano, Bay of Campeche. <i>Chemical Geology</i> , <b>2009</b> , 266, 390-402	4.2	45
124	Fluid flow regimes and growth of a giant pockmark. <i>Geology</i> , <b>2014</b> , 42, 63-66	5	44
123	Fabric of gas hydrate in sediments from Hydrate Ridge—Results from ODP Leg 204 samples. <i>Geo-Marine Letters</i> , <b>2007</b> , 27, 269-277	1.9	44
122	Complex plumbing systems in the near subsurface: Geometries of authigenic carbonates from Dolgovskoy Mound (Black Sea) constrained by analogue experiments. <i>Marine and Petroleum Geology</i> , <b>2008</b> , 25, 457-472	4.7	43
121	Gas hydrate distributions in sediments of pockmarks from the Nigerian margin [Results and interpretation from shallow drilling. <i>Marine and Petroleum Geology</i> , <b>2015</b> , 59, 359-370	4.7	42
120	Hydrocarbon seepage and its sources at mud volcanoes of the Kumano forearc basin, Nankai Trough subduction zone. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 2180-2194	3.6	41
119	Natural oil seepage at Kobuleti Ridge, eastern Black Sea. <i>Marine and Petroleum Geology</i> , <b>2014</b> , 50, 68-82	4.7	41
118	High-intensity gas seepage causes rafting of shallow gas hydrates in the southeastern Black Sea. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 307, 35-46	5.3	41
117	The silicon isotope record of early silica diagenesis. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 428, 293-303	4.3	39
116	Mineralization of vestimentiferan tubes at methane seeps on the Congo deep-sea fan. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2009</b> , 56, 283-293	2.5	38
115	Natural gas hydrate investigations by synchrotron radiation X-ray cryo-tomographic microscopy (SRXCTM). <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	38

114	Sea Floor Methane Hydrates at Hydrate Ridge, Cascadia Margin. <i>Geophysical Monograph Series</i> , <b>2013</b> , 87-98	1.1	37
113	Appearance and preservation of natural gas hydrate from Hydrate Ridge sampled during ODP Leg 204 drilling. <i>Marine Geology</i> , <b>2007</b> , 244, 1-14	3.3	37
112	Origin, distribution, and alteration of asphalts at Chapopote Knoll, Southern Gulf of Mexico. <i>Marine and Petroleum Geology</i> , <b>2010</b> , 27, 1093-1106	4.7	36
111	Methane-derived authigenic carbonates associated with gas hydrate decomposition and fluid venting above the Blake Ridge Diapir		35
110	First evidence of widespread active methane seepage in the Southern Ocean, off the sub-Antarctic island of South Georgia. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 403, 166-177	5.3	34
109	Corrosion patterns of seep-carbonates from the eastern Mediterranean Sea. <i>Terra Nova</i> , <b>2011</b> , 23, 206-212	3.2	34
108	Authigenic carbonate precipitates from the NE Black Sea: a mineralogical, geochemical, and lipid biomarker study. <i>International Journal of Earth Sciences</i> , <b>2009</b> , 98, 677-695	2.2	34
107	In situ hydrocarbon concentrations from pressurized cores in surface sediments, Northern Gulf of Mexico. <i>Marine Chemistry</i> , <b>2007</b> , 107, 498-515	3.7	33
106	Quantum rotations in natural methane-clathrates from the Pacific sea-floor. <i>Europhysics Letters</i> , <b>1999</b> , 48, 269-275	1.6	33
105	A 160,000-year-old history of tectonically controlled methane seepage in the Arctic. <i>Science Advances</i> , <b>2019</b> , 5, eaaw1450	14.3	32
104	Anaerobic Degradation of Non-Methane Alkanes by "Methanoliparia" in Hydrocarbon Seeps of the Gulf of Mexico. <i>MBio</i> , <b>2019</b> , 10,	7.8	31
103	Rare earth elements of seep carbonates: Indication for redox variations and microbiological processes at modern seep sites. <i>Journal of Asian Earth Sciences</i> , <b>2013</b> , 65, 27-33	2.8	31
102	Massive asphalt deposits, oil seepage, and gas venting support abundant chemosynthetic communities at the Campeche Knolls, southern Gulf of Mexico. <i>Biogeosciences</i> , <b>2016</b> , 13, 4491-4512	4.6	31
101	Megafaunal distribution and assessment of total methane and sulfide consumption by mussel beds at Menez Gwen hydrothermal vent, based on geo-referenced photomosaics. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2013</b> , 75, 93-109	2.5	30
100	Petroleum degradation and associated microbial signatures at the Chapopote asphalt volcano, Southern Gulf of Mexico. <i>Geochimica Et Cosmochimica Acta</i> , <b>2011</b> , 75, 4377-4398	5.5	30
99	Gas Hydrates in Marine Sediments <b>2006</b> , 481-512		30
98	Low-temperature opal-CT precipitation in Antarctic deep-sea sediments: evidence from oxygen isotopes. <i>Earth and Planetary Science Letters</i> , <b>1991</b> , 107, 612-617	5.3	30
97	Establishing criteria to distinguish oil-seep from methane-seep carbonates. <i>Geology</i> , <b>2016</b> , 44, 667-670	5	28

96	A conceptual model for hydrocarbon accumulation and seepage processes around Chapopote asphalt site, southern Gulf of Mexico: From high resolution seismic point of view. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		28
95	Evidence for the submarine weathering of silicate minerals in Black Sea sediments: Possible implications for the marine Li and B cycles. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5, n/a-n/a	3.6	28
94	Miocene to Quaternary Paleoceanography in the Northern North Atlantic: Variability in Carbonate and Biogenic Opal Accumulation <b>1990</b> , 647-675		28
93	Hot vents in an ice-cold ocean: Indications for phase separation at the southernmost area of hydrothermal activity, Bransfield Strait, Antarctica. <i>Earth and Planetary Science Letters</i> , <b>2001</b> , 193, 381-394	5.3	27
92	Assessing marine gas emission activity and contribution to the atmospheric methane inventory: A multidisciplinary approach from the Dutch Dogger Bank seep area (North Sea). <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 2617-2633	3.6	25
91	Microstructure characteristics during hydrate formation and dissociation revealed by X-ray tomographic microscopy. <i>Geo-Marine Letters</i> , <b>2012</b> , 32, 555-562	1.9	25
90	The effect of meter-scale lateral oxygen gradients at the sediment-water interface on selected organic matter based alteration, productivity and temperature proxies. <i>Biogeosciences</i> , <b>2012</b> , 9, 1553-1570	4.6	25
89	The thermal structure of the Dvurechenskii mud volcano and its implications for gas hydrate stability and eruption dynamics. <i>Marine and Petroleum Geology</i> , <b>2009</b> , 26, 1812-1823	4.7	24
88	Authigenic carbonates from the eastern Black Sea as an archive for shallow gas hydrate dynamics □ Results from the combination of CT imaging with mineralogical and stable isotope analyses. <i>Marine and Petroleum Geology</i> , <b>2010</b> , 27, 1819-1829	4.7	23
87	Distribution and temporal variation of mega-fauna at the Regab pockmark (Northern Congo Fan), based on a comparison of videomosaics and geographic information systems analyses. <i>Marine Ecology</i> , <b>2014</b> , 35, 77-95	1.4	22
86	Distribution and abundance of gas hydrates in near-surface deposits of the Høkon Mosby Mud Volcano, SW Barents Sea. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	22
85	Major advance of South Georgia glaciers during the Antarctic Cold Reversal following extensive sub-Antarctic glaciation. <i>Nature Communications</i> , <b>2017</b> , 8, 14798	17.4	21
84	Oil seepage and carbonate formation: A case study from the southern Gulf of Mexico. <i>Sedimentology</i> , <b>2019</b> , 66, 2318-2353	3.3	21
83	Bathymetry and geological setting of the South Sandwich Islands volcanic arc. <i>Antarctic Science</i> , <b>2016</b> , 28, 293-303	1.7	21
82	Automatic Estimation of Oil Seep Locations in Synthetic Aperture Radar Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 4218-4230	8.1	21
81	Grain size measurements of natural gas hydrates. <i>Marine Geology</i> , <b>2010</b> , 274, 85-94	3.3	21
80	Hydrothermal activity at Hook Ridge in the Central Bransfield Basin, Antarctica. <i>Geo-Marine Letters</i> , <b>1998</b> , 18, 277-284	1.9	21
79	Mapping deep-water gas emissions with sidescan sonar. <i>Eos</i> , <b>2005</b> , 86, 341	1.5	21

78	Seafloor sealing, doming, and collapse associated with gas seeps and authigenic carbonate structures at Venere mud volcano, Central Mediterranean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2018</b> , 137, 76-96	2.5	20
77	Quantifying in-situ gas hydrates at active seep sites in the eastern Black Sea using pressure coring technique. <i>Biogeosciences</i> , <b>2011</b> , 8, 3555-3565	4.6	20
76	Interaction between accretionary thrust faulting and slope sedimentation at the frontal Makran accretionary prism and its implications for hydrocarbon fluid seepage. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		19
75	Physical properties and core-log seismic integration from drilling at the Danube deep-sea fan, Black Sea. <i>Marine and Petroleum Geology</i> , <b>2020</b> , 114, 104192	4.7	19
74	Carbon cycling fed by methane seepage at the shallow Cumberland Bay, South Georgia, sub-Antarctic. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 1401-1418	3.6	19
73	Stromatolites below the photic zone in the northern Arabian Sea formed by calcifying chemotrophic microbial mats. <i>Geology</i> , <b>2018</b> , 46, 339-342	5	18
72	Chapopote Asphalt Volcano may have been generated by supercritical water. <i>Eos</i> , <b>2005</b> , 86, 397	1.5	17
71	A young porcellanite occurrence from the Southwest Indian Ridge. <i>Marine Geology</i> , <b>1990</b> , 92, 155-163	3.3	16
70	Automated gas bubble imaging at sea floor – a new method of in situ gas flux quantification. <i>Ocean Science</i> , <b>2010</b> , 6, 549-562	4	14
69	Deformation and submarine landsliding caused by seamount subduction beneath the Costa Rica continental margin – new insights from high-resolution sidescan sonar data. <i>Geological Society Special Publication</i> , <b>2005</b> , 244, 195-205	1.7	14
68	Amount and Fate of Gas and Oil Discharged at 3400 m Water Depth From a Natural Seep Site in the Southern Gulf of Mexico. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	14
67	Focused hydrocarbon-migration in shallow sediments of a pockmark cluster in the Niger Delta (Off Nigeria). <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 93-112	3.6	13
66	In Situ Temperature Measurements at the Svalbard Continental Margin: Implications for Gas Hydrate Dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 1165-1177	3.6	13
65	Shallow sediment deformation styles in north-western Campeche Knolls, Gulf of Mexico and their controls on the occurrence of hydrocarbon seepage. <i>Marine and Petroleum Geology</i> , <b>2010</b> , 27, 959-972	4.7	13
64	Oxygen isotopic composition of low-temperature authigenic clinoptilolite. <i>Earth and Planetary Science Letters</i> , <b>1998</b> , 160, 369-381	5.3	13
63	Barium-rich authigenic clinoptilolite in sediments from the Japan Sea – sink for dissolved barium?. <i>Chemical Geology</i> , <b>1999</b> , 158, 227-244	4.2	13
62	Reflector Bcl – a prominent feature in the Maud Rise sediment sequence (eastern Weddell Sea): Occurrence, regional distribution and implications to silica diagenesis. <i>Marine Geology</i> , <b>1992</b> , 106, 69-87	3.3	13
61	Authigenic zeolites and their relation to silica diagenesis in ODP Site 661 sediments (Leg 108, Eastern Equatorial Atlantic). <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , <b>1989</b> , 78, 779-792		13



60	Gas emissions at the continental margin west off Svalbard: mapping, sampling, and quantification		13
59	Seep-carbonate lamination controlled by cyclic particle flux. <i>Scientific Reports</i> , <b>2016</b> , 6, 37439	4.9	12
58	Leg 204 synthesis: gas hydrate distribution and dynamics in the central Cascadia accretionary complex		12
57	Origin and Transformation of Light Hydrocarbons Ascending at an Active Pockmark on Vestnesa Ridge, Arctic Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2018JB016679	3.6	12
56	Mud extrusion and ring-fault gas seepage - upward branching fluid discharge at a deep-sea mud volcano. <i>Scientific Reports</i> , <b>2018</b> , 8, 6275	4.9	11
55	Three-dimensional seismic investigations of the Sevastopol mud volcano in correlation to gas/fluid migration pathways and indications for gas hydrate occurrences in the Sorokin Trough (Black Sea). <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	10
54	Authigenic Carbonate and Barite Mineralization in Sediments of the Deryugin Basin (Sea of Okhotsk). <i>Lithology and Mineral Resources</i> , <b>2000</b> , 35, 504-508	0.7	10
53	New insights into geology and geochemistry of the Kerch seep area in the Black Sea. <i>Marine and Petroleum Geology</i> , <b>2020</b> , 113, 104162	4.7	10
52	Methane gas emissions of the Black Sea happening from the Crimean continental margin to the Kerch Peninsula slope. <i>Geo-Marine Letters</i> , <b>2020</b> , 40, 467-480	1.9	9
51	Slow Volcanoes: The Intriguing Similarities Between Marine Asphalt and Basalt Lavas. <i>Oceanography</i> , <b>2018</b> , 31,	2.3	9
50	Can hydrocarbons entrapped in seep carbonates serve as gas geochemistry recorder?. <i>Geo-Marine Letters</i> , <b>2018</b> , 38, 121-129	1.9	8
49	Long-term in situ observations at the Athina mud volcano, Eastern Mediterranean: Taking the pulse of mud volcanism. <i>Tectonophysics</i> , <b>2017</b> , 721, 12-27	3.1	8
48	Drilling Gas Hydrates On Hydrate Ridge, Cascadia Continental Margin		8
47	LAPM: a tool for underwater large-area photo-mosaicking. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , <b>2013</b> , 2, 189-198	1.5	8
46	Design and deployment of autoclave pressure vessels for the portable deep-sea drill rig MeBo (&lt;i>Meeresboden-Bohrer&lt;/i>). <i>Scientific Drilling</i> , <b>2017</b> , 23, 29-37		8
45	Formation pathways of light hydrocarbons in deep sediments of the Danube deep-sea fan, Western Black Sea. <i>Marine and Petroleum Geology</i> , <b>2020</b> , 122, 104627	4.7	8
44	Iron and sulfate reduction structure microbial communities in (sub-)Antarctic sediments. <i>ISME Journal</i> , <b>2021</b> , 15, 3587-3604	11.9	8
43	Morphology and activity of the Helgoland Mud Volcano in the Sorokin Trough, northern Black Sea. <i>Marine and Petroleum Geology</i> , <b>2019</b> , 99, 227-236	4.7	8

42	Natural oil Seep Location Estimation in SAR images using direct and contextual information <b>2014</b> ,		7
41	Reply to comment on: Gas hydrate growth, methane transport and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia Margin off Oregon <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 239, 168-175	5.3	7
40	Formation of tubular carbonate conduits at Athina mud volcano, eastern Mediterranean Sea. <i>Marine and Petroleum Geology</i> , <b>2019</b> , 107, 20-31	4.7	6
39	An automatic detection system for natural oil seep origin estimation in SAR images <b>2013</b> ,		6
38	Accumulation of biogenic silica and opal dissolution in upper quaternary skagerrak sediments. <i>Geo-Marine Letters</i> , <b>1986</b> , 6, 165-172	1.9	6
37	Mud Volcanism in a Canyon: Morphodynamic Evolution of the Active Venere Mud Volcano and Its Interplay With Squillace Canyon, Central Mediterranean. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 356-378	3.6	5
36	Contributions from the 9th International Conference on Gas in Marine Sediments, University of Bremen, 15-19 September 2008. <i>Geo-Marine Letters</i> , <b>2010</b> , 30, 151-155	1.9	5
35	Deep-Sourced Fluids From a Convergent Margin Host Distinct Subseafloor Microbial Communities That Change Upon Mud Flow Expulsion. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1436	5.7	4
34	Physical properties of a porcellanite layer (Southwest Indian Ridge) constrained by geophysical logging. <i>Marine Geology</i> , <b>1997</b> , 140, 415-426	3.3	4
33	Marine Methane Biogeochemistry of the Black Sea: A Review. <i>Modern Approaches in Solid Earth Sciences</i> , <b>2008</b> , 281-311	0.5	4
32	. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 225, 347-363	5.3	4
31	Brennendes Eis: Methanhydrat [Energiequelle der Zukunft oder Gefahr für Klima?]. <i>Physik Journal</i> , <b>2001</b> , 57, 49-54		4
30	Data Report: Shapes and Structures of Gas Hydrates Imaged by Computed Tomographic Analyses, ODP Leg 204, Hydrate Ridge		4
29	Interaction between hydrocarbon seepage, chemosynthetic communities and bottom water redox at cold seeps of the Makran accretionary prism: insights from habitat-specific pore water sampling and modeling		4
28	In-situ borehole temperature measurements confirm dynamics of the gas hydrate stability zone at the upper Danube deep sea fan, Black Sea. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 563, 116869	5.3	4
27	A Rotary Sonar for Long-Term Acoustic Monitoring of Deep-Sea Gas Emissions <b>2019</b> ,		4
26	Trace element distribution in methane-seep carbonates: The role of mineralogy and dissolved sulfide. <i>Chemical Geology</i> , <b>2021</b> , 580, 120357	4.2	4
25	Methane Seeps and Independent Methane Plumes in the South China Sea Offshore Taiwan. <i>Frontiers in Marine Science</i> , <b>2020</b> , 7,	4.5	3

24	Electron Acceptor Availability Shapes Anaerobically Methane Oxidizing Archaea (ANME) Communities in South Georgia Sediments. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 617280	5.7	3
23	Oil and gas seepage offshore Georgia (Black Sea) – Geochemical evidences for a paleogene-neogene hydrocarbon source rock. <i>Marine and Petroleum Geology</i> , <b>2021</b> , 128, 104995	4.7	3
22	Controls on Gas Emission Distribution on the Continental Slope of the Western Black Sea. <i>Frontiers in Earth Science</i> , <b>2021</b> , 8,	3.5	3
21	Heterogeneous hydrocarbon seepage at Mictlan asphalt knoll of the southern Gulf of Mexico. <i>Marine and Petroleum Geology</i> , <b>2021</b> , 132, 105185	4.7	3
20	Characteristics and hydrocarbon seepage at the Challenger Knoll in the Sigsbee Basin, Gulf of Mexico. <i>Geo-Marine Letters</i> , <b>2019</b> , 39, 391-399	1.9	2
19	Quantifying in-situ gas hydrates at active seep sites in the eastern Black Sea using pressure coring technique		2
18	More than ten years of successful operation of the MARUM-MeBo sea bed drilling technology: Highlights of recent scientific drilling campaigns		2
17	Automated gas bubble imaging at sea floor – A new method of in situ gas flux quantification		2
16	Increased petrogenic and biospheric organic carbon burial in sub-Antarctic fjord sediments in response to recent glacier retreat. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 4347	4.8	2
15	Shallow Gas Hydrate Accumulations at a Nigerian Deepwater Pockmark – Quantities and Dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2019JB018283	3.6	2
14	Variability of Natural Methane Bubble Release at Southern Hydrate Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2021GC009894	3.6	2
13	Application of the automatic seep location estimator (ASLE) with the use of contextual information for estimating offshore oil seeps. <i>Remote Sensing Applications: Society and Environment</i> , <b>2017</b> , 5, 16-26	2.8	1
12	Drilling Gas hydrates on Hydrate Ridge, Cascadia Continental Margin. <i>Energy Exploration and Exploitation</i> , <b>2003</b> , 21, 333-334	2.1	1
11	Formation of modern and Paleozoic stratiform barite at cold methane seeps on continental margins: Comment and Reply. <i>Geology</i> , <b>2004</b> , 32, e64-e65	5	1
10	LAPM: a tool for underwater Large-Area Photo-Mosaicking		1
9	Interactions between deep formation fluid and gas hydrate dynamics inferred from pore fluid geochemistry at active pockmarks of the Vestnesa Ridge, west Svalbard margin. <i>Marine and Petroleum Geology</i> , <b>2021</b> , 127, 104957	4.7	1
8	Heat Flow Measurements at the Danube Deep-Sea Fan, Western Black Sea. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 240	2.7	1
7	Megabenthos habitats influenced by nearby hydrothermal activity on the Sandwich Plate, Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2022</b> , 105075	2.3	1

6	Thermal Characterization of Pockmarks Across Vestnesa and Svyatogor Ridges, Offshore Svalbard. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2020JB019468	3.6	○
5	Shallow Gas Hydrates Associated to Pockmarks in the Northern Congo Deep-Sea Fan, SW Africa <b>2022</b> , 359-371		○
4	Benthic Deep-Sea Life Associated with Asphaltic Hydrocarbon Emissions in the Southern Gulf of Mexico. <i>Springer Oceanography</i> , <b>2020</b> , 101-123	0.5	○
3	Molecular and isotopic signatures of oil-driven bacterial sulfate reduction at seeps in the southern Gulf of Mexico. <i>Chemical Geology</i> , <b>2022</b> , 595, 120797	4.2	○
2	<i>Eualus amandae</i> (Decapoda: Caridea: Thoridae) is an indicator of active venting sites in the Southern Ocean. <i>Marine Biodiversity</i> , <b>2019</b> , 49, 2937-2942	1.4	
1	Sulfur formation associated with coexisting sulfide minerals in the Kemp Caldera hydrothermal system, Scotia Sea. <i>Chemical Geology</i> , <b>2022</b> , 120927	4.2	