

Michael Riedel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/349114/publications.pdf>

Version: 2024-02-01

70
papers

2,427
citations

236925

25
h-index

214800

47
g-index

83
all docs

83
docs citations

83
times ranked

1705
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional distribution of gas hydrate beneath southern Hydrate Ridge: constraints from ODP Leg 204. <i>Earth and Planetary Science Letters</i> , 2004, 222, 845-862.	4.4	278
2	Methane hydrate formation in turbidite sediments of northern Cascadia, IODP Expedition 311. <i>Earth and Planetary Science Letters</i> , 2008, 271, 170-180.	4.4	161
3	Scientific results of the Second Gas Hydrate Drilling Expedition in the Ulleung Basin (UBGH2). <i>Marine and Petroleum Geology</i> , 2013, 47, 1-20.	3.3	158
4	Geologic implications of gas hydrates in the offshore of India: Results of the National Gas Hydrate Program Expedition 01. <i>Marine and Petroleum Geology</i> , 2014, 58, 3-28.	3.3	152
5	Seismic investigations of a vent field associated with gas hydrates, offshore Vancouver Island. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 5-1-EPM 5-16.	3.3	119
6	Geologic implications of gas hydrates in the offshore of India: Krishna-Godavari Basin, Mahanadi Basin, Andaman Sea, Kerala-Konkan Basin. <i>Marine and Petroleum Geology</i> , 2014, 58, 29-98.	3.3	98
7	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. <i>Nature Communications</i> , 2018, 9, 83.	12.8	97
8	Gas hydrates in the western deep-water Ulleung Basin, East Sea of Korea. <i>Marine and Petroleum Geology</i> , 2009, 26, 1483-1498.	3.3	81
9	Occurrence and seismic characteristics of gas hydrate in the Ulleung Basin, East Sea. <i>Marine and Petroleum Geology</i> , 2013, 47, 236-247.	3.3	76
10	Gas hydrate occurrences and their relation to host sediment properties: Results from Second Ulleung Basin Gas Hydrate Drilling Expedition, East Sea. <i>Marine and Petroleum Geology</i> , 2013, 47, 21-29.	3.3	74
11	Tidally controlled gas bubble emissions: A comprehensive study using long-term monitoring data from the NEPTUNE cabled observatory offshore Vancouver Island. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3797-3814.	2.5	69
12	Occurrence and exploration of gas hydrate in the marginal seas and continental margin of the Asia and Oceania region. <i>Marine and Petroleum Geology</i> , 2011, 28, 1751-1767.	3.3	61
13	Methane-derived authigenic carbonates from modern and paleoseeps on the Cascadia margin: Mechanisms of formation and diagenetic signals. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 390, 52-67.	2.3	60
14	Active mud volcanoes on the continental slope of the Canadian Beaufort Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3160-3181.	2.5	55
15	Distributed natural gas venting offshore along the Cascadia margin. <i>Nature Communications</i> , 2018, 9, 3264.	12.8	55
16	Anaerobic methane oxidation in low-organic content methane seep sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 108, 184-201.	3.9	44
17	Fracture orientation and induced anisotropy of gas hydrate-bearing sediments in seismic chimney-like-structures of the Ulleung Basin, East Sea. <i>Marine and Petroleum Geology</i> , 2013, 47, 182-194.	3.3	43
18	Using the $^{87}\text{Sr}/^{86}\text{Sr}$ of modern and paleoseep carbonates from northern Cascadia to link modern fluid flow to the past. <i>Chemical Geology</i> , 2012, 334, 122-130.	3.3	37

#	ARTICLE	IF	CITATIONS
19	Defining megathrust tsunami source scenarios for northernmost Cascadia. <i>Natural Hazards</i> , 2018, 94, 445-469.	3.4	34
20	Thermal Condition of the 27 October 2012 Mw 7.8 Haida Gwaii Subduction Earthquake at the Obliquely Convergent Queen Charlotte Margin. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 1290-1300.	2.3	32
21	Role of gas hydrates in slope failure on frontal ridge of northern Cascadia margin. <i>Geophysical Journal International</i> , 2014, 199, 441-458.	2.4	29
22	Seafloor geomorphic manifestations of gas venting and shallow subbottom gas hydrate occurrences. <i>Geology</i> , 2015, 11, 491-513.		28
23	Temporal variability of <i>in situ</i> methane concentrations in gas hydrate-bearing sediments near Bullseye Vent, Northern Cascadia Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2445-2459.	2.5	27
24	Field Studies Target 2012 Haida Gwaii Earthquake. <i>Eos</i> , 2013, 94, 197-198.	0.1	27
25	Expedition 311 Synthesis: scientific findings. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	27
26	Characterizing the thermal regime of cold vents at the northern Cascadia margin from bottom-simulating reflector distributions, heat-probe measurements and borehole temperature data. <i>Marine Geophysical Researches</i> , 2010, 31, 1-16.	1.2	26
27	Fluid flow and origin of a carbonate mound offshore Vancouver Island: Seismic and heat flow constraints. <i>Marine Geology</i> , 2007, 239, 83-98.	2.1	25
28	Physical properties and core-log seismic integration from drilling at the Danube deep-sea fan, Black Sea. <i>Marine and Petroleum Geology</i> , 2020, 114, 104192.	3.3	25
29	Earthquake Activity in Northern Cascadia Subduction Zone Off Vancouver Island Revealed by Ocean-Bottom Seismograph Observations. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 489-495.	2.3	23
30	Evidence for gas hydrate occurrences in the Canadian Arctic Beaufort Sea within permafrost-associated shelf and deep-water marine environments. <i>Marine and Petroleum Geology</i> , 2017, 81, 66-78.	3.3	23
31	Compressional and shear-wave velocities from gas hydrate bearing sediments: Examples from the India and Cascadia margins as well as Arctic permafrost regions. <i>Marine and Petroleum Geology</i> , 2014, 58, 292-320.	3.3	22
32	Origin and Transformation of Light Hydrocarbons Ascending at an Active Pockmark on Vestnesa Ridge, Arctic Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2018JB016679.	3.4	20
33	In Situ Temperature Measurements at the Svalbard Continental Margin: Implications for Gas Hydrate Dynamics. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1165-1177.	2.5	18
34	Slipstream: an early Holocene slump and turbidite record from the frontal ridge of the Cascadia accretionary wedge off western Canada and paleoseismic implications. <i>Canadian Journal of Earth Sciences</i> , 2015, 52, 405-430.	1.3	17
35	Submarine landslides offshore Vancouver Island along the northern Cascadia margin, British Columbia: why preconditioning is likely required to trigger slope failure. <i>Geo-Marine Letters</i> , 2016, 36, 323-337.	1.1	16
36	Quantification of gas hydrate saturation and morphology based on a generalized effective medium model. <i>Marine and Petroleum Geology</i> , 2020, 113, 104166.	3.3	16

#	ARTICLE	IF	CITATIONS
37	Seafloor seismometers monitor northern Cascadia earthquakes. <i>Eos</i> , 2011, 92, 421-422.	0.1	15
38	Freshwater Seepage Into Sediments of the Shelf, Shelf Edge, and Continental Slope of the Canadian Beaufort Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3039-3055.	2.5	15
39	A case study on pseudo 3-D Chirp sub-bottom profiler (SBP) survey for the detection of a fault trace in shallow sedimentary layers at gas hydrate site in the Ulleung Basin, East Sea. <i>Journal of Applied Geophysics</i> , 2016, 133, 98-115.	2.1	14
40	Observed correlation between the depth to base and top of gas hydrate occurrence from review of global drilling data. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2543-2561.	2.5	14
41	Formation pathways of light hydrocarbons in deep sediments of the Danube deep-sea fan, Western Black Sea. <i>Marine and Petroleum Geology</i> , 2020, 122, 104627.	3.3	14
42	Initiation of Strike-slip Faults, Serpentinization, and Methane: The Nootka Fault Zone, the Juan de Fuca Explorer Plate Boundary. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4290-4312.	2.5	13
43	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> , 2021, 563, 116869.	4.4	12
44	Slope failures along the deformation front of the Cascadia margin: linking slide morphology to subduction zone parameters. <i>Geological Society Special Publication</i> , 2019, 477, 47-67.	1.3	11
45	Observing methane hydrate dissolution rates under sediment cover. <i>Marine Chemistry</i> , 2015, 172, 12-22.	2.3	9
46	Elongate fluid flow structures: Stress control on gas migration at Opouawe Bank, New Zealand. <i>Marine and Petroleum Geology</i> , 2018, 92, 913-931.	3.3	9
47	Ocean Observatories as a Tool to Advance Gas Hydrate Research. <i>Earth and Space Science</i> , 2019, 6, 2644-2652.	2.6	9
48	Heat Flow Measurements at the Danube Deep-Sea Fan, Western Black Sea. <i>Geosciences (Switzerland)</i> , 2021, 11, 240.	2.2	9
49	Controls on Gas Emission Distribution on the Continental Slope of the Western Black Sea. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	8
50	Data report: seismic structure beneath the north Cascadia drilling transect of IODP Expedition 311. , 0, , ,		8
51	Dual-vergence structure from multiple migration of widely spaced OBSs. <i>Tectonophysics</i> , 2017, 718, 45-60.	2.2	7
52	14. Infrared Imaging of Gas-Hydrate-Bearing Cores: State of the Art and Future Prospects. , 2010, , 217-232.		7
53	Horizontal compressive stress regime on the northern Cascadia margin inferred from borehole breakouts. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3529-3545.	2.5	6
54	Data report: a downhole electrical resistivity study of northern Cascadia marine gas hydrate. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	6

#	ARTICLE	IF	CITATIONS
55	Fracture Alignments in Marine Sediments Off Vancouver Island from PsSplitting Analysis. Bulletin of the Seismological Society of America, 2017, 107, 387-402.	2.3	5
56	Significant geometric variation of the subducted plate beneath the northernmost Cascadia subduction zone and its tectonic implications as revealed by the 2014 M 6.4 earthquake sequence. Earth and Planetary Science Letters, 2020, 551, 116569.	4.4	5
57	Application of pseudo-3D Chirp sub-bottom profiler survey: a case study of ancient wooden shipwreck site, west coast of Korea. Exploration Geophysics, 2021, 52, 109-121.	1.1	5
58	A case study on swell correction of Chirp sub-bottom profiler (SBP) data using multi-beam echo sounder (MBES) data. Journal of Applied Geophysics, 2017, 145, 100-110.	2.1	4
59	Crustal Structure of the Niufo'ou Microplate and Fonualei Rift and Spreading Center in the Northeastern Lau Basin, Southwestern Pacific. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019184.	3.4	4
60	Gas hydrate occurrences along the Haida Gwaii margin – Constraints on the geothermal regime and implications for fluid flow. , 2020, 16, 1-12.		4
61	Imaging the P-Wave Velocity Structure of Arctic Subsea Permafrost Using Laplace-Domain Full-Waveform Inversion. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005941.	2.8	4
62	Megathrust reflectivity reveals the updip limit of the 2014 Iquique earthquake rupture. Nature Communications, 2022, 13, .	12.8	4
63	A chronology of post-glacial mass-transport deposits on the Canadian Beaufort Slope. Marine Geology, 2021, 433, 106407.	2.1	3
64	Focused Fluid Flow Along the Nootka Fault Zone and Continental Slope, Explorer-Juan de Fuca Plate Boundary. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009095.	2.5	2
65	Mega-scale glacial lineations formed by ice shelf grounding in the Canadian Beaufort Sea during multiple glaciations. Earth Surface Processes and Landforms, 2021, 46, 1568-1585.	2.5	2
66	On the consolidation state of sediments from the accretionary prism offshore Vancouver Island, North Cascadia Margin. Marine Geophysical Researches, 2022, 43, .	1.2	2
67	Thermal Characterization of Pockmarks Across Vestnesa and Svyatogor Ridges, Offshore Svalbard. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019468.	3.4	1
68	Seismic velocity structure of the Queen Charlotte terrace off western Canada in the region of the 2012 Haida Gwaii Mw 7.8 thrust earthquake. , 2021, 17, 23-38.		1
69	Variability of Marine Methane Bubble Emissions on the Clayoquot Slope, Offshore Vancouver Island, Between 2017 and 2021. Frontiers in Earth Science, 2022, 10, .	1.8	1
70	Barkley Canyon Gas Hydrates: A Synthesis Based on Two Decades of Seafloor Observation and Remote Sensing. Frontiers in Earth Science, 2022, 10, .	1.8	0