Michael Riedel

List of Publications by Year
in descending order

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70	2,427	236925	214800
papers	citations	25	47
		h-index	g-index

83	83	83	1705
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	On the consolidation state of sediments from the accretionary prism offshore Vancouver Island, North Cascadia Margin. Marine Geophysical Researches, 2022, 43, .	1.2	2
4	Megathrust reflectivity reveals the updip limit of the 2014 Iquique earthquake rupture. Nature Communications, 2022, 13, .	12.8	4
5	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
6	Controls on Gas Emission Distribution on the Continental Slope of the Western Black Sea. Frontiers in Earth Science, 2021, 8, .	1.8	8
7	Imaging the Pâ€Wave Velocity Structure of Arctic Subsea Permafrost Using Laplaceâ€Domain Fullâ€Waveform Inversion. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005941.	2.8	4
8	A chronology of post-glacial mass-transport deposits on the Canadian Beaufort Slope. Marine Geology, 2021, 433, 106407.	2.1	3
9	Megaâ€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
10	In-situ borehole temperature measurements confirm dynamics of the gas hydrate stability zone at the upper Danube deep sea fan, Black Sea. Earth and Planetary Science Letters, 2021, 563, 116869.	4.4	12
11	Heat Flow Measurements at the Danube Deep-Sea Fan, Western Black Sea. Geosciences (Switzerland), 2021, 11, 240.	2.2	9
12	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
13	Origin and Transformation of Light Hydrocarbons Ascending at an Active Pockmark on Vestnesa Ridge, Arctic Ocean. Journal of Geophysical Research: Solid Earth, 2020, 125, e2018JB016679.	3.4	20
14	Physical properties and core-log seismic integration from drilling at the Danube deep-sea fan, Black Sea. Marine and Petroleum Geology, 2020, 114, 104192.	3.3	25
15	Quantification of gas hydrate saturation and morphology based on a generalized effective medium model. Marine and Petroleum Geology, 2020, 113, 104166.	3.3	16
16	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
17	Focused Fluid Flow Along the Nootka Fault Zone and Continental Slope, Explorerâ€Juan de Fuca Plate Boundary. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009095.	2.5	2
18	Formation pathways of light hydrocarbons in deep sediments of the Danube deep-sea fan, Western Black Sea. Marine and Petroleum Geology, 2020, 122, 104627.	3.3	14

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19	Thermal Characterization of Pockmarks Across Vestnesa and Svyatogor Ridges, Offshore Svalbard. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019468.	3.4	1
20	Crustal Structure of the Niuafo'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
21	Gas hydrate occurrences along the Haida Gwaii marginâ€"Constraints on the geothermal regime and implications for fluid flow. , 2020, 16, 1-12.		4
22	Ocean Observatories as a Tool to Advance Gas Hydrate Research. Earth and Space Science, 2019, 6, 2644-2652.	2.6	9
23	Slope failures along the deformation front of the Cascadia margin: linking slide morphology to subduction zone parameters. Geological Society Special Publication, 2019, 477, 47-67.	1.3	11
24	In Situ Temperature Measurements at the Svalbard Continental Margin: Implications for Gas Hydrate Dynamics. Geochemistry, Geophysics, Geosystems, 2018, 19, 1165-1177.	2.5	18
25	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. Nature Communications, 2018, 9, 83.	12.8	97
26	Elongate fluid flow structures: Stress control on gas migration at Opouawe Bank, New Zealand. Marine and Petroleum Geology, 2018, 92, 913-931.	3.3	9
27	Initiation of Strikeâ€Slip Faults, Serpentinization, and Methane: The Nootka Fault Zone, the Juan de Fucaâ€Explorer Plate Boundary. Geochemistry, Geophysics, Geosystems, 2018, 19, 4290-4312.	2.5	13
28	Defining megathrust tsunami source scenarios for northernmost Cascadia. Natural Hazards, 2018, 94, 445-469.	3.4	34
29	Freshwater Seepage Into Sediments of the Shelf, Shelf Edge, and Continental Slope of the Canadian Beaufort Sea. Geochemistry, Geophysics, Geosystems, 2018, 19, 3039-3055.	2.5	15
30	Distributed natural gas venting offshore along the Cascadia margin. Nature Communications, 2018, 9, 3264.	12.8	55
31	Fracture Alignments in Marine Sediments Off Vancouver Island fromPsSplitting Analysis. Bulletin of the Seismological Society of America, 2017, 107, 387-402.	2.3	5
32	Observed correlation between the depth to base and top of gas hydrate occurrence from review of global drilling data. Geochemistry, Geophysics, Geosystems, 2017, 18, 2543-2561.	2.5	14
33	Evidence for gas hydrate occurrences in the Canadian Arctic Beaufort Sea within permafrost-associated shelf and deep-water marine environments. Marine and Petroleum Geology, 2017, 81, 66-78.	3.3	23
34	Dual-vergence structure from multiple migration of widely spaced OBSs. Tectonophysics, 2017, 718, 45-60.	2.2	7
35	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
36	Submarine landslides offshore Vancouver Island along the northern Cascadia margin, British Columbia: why preconditioning is likely required to trigger slope failure. Geo-Marine Letters, 2016, 36, 323-337.	1.1	16

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37	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. Journal of Applied Geophysics, 2016, 133, 98-115.	2.1	14
38	Tidally controlled gas bubble emissions: A comprehensive study using long-term monitoring data from the NEPTUNE cabled observatory offshore Vancouver Island. Geochemistry, Geophysics, Geosystems, 2016, 17, 3797-3814.	2.5	69
39	Horizontal compressive stress regime on the northern Cascadia margin inferred from borehole breakouts. Geochemistry, Geophysics, Geosystems, 2016, 17, 3529-3545.	2.5	6
40	Active mud volcanoes on the continental slope of the <scp>C</scp>anadian <scp>B</scp>eaufort <scp>S</scp>ea. Geochemistry, Geophysics, Geosystems, 2015, 16, 3160-3181.	2.5	55
41	Thermal Condition of the 27 October 2012 Mw 7.8 Haida Gwaii Subduction Earthquake at the Obliquely Convergent Queen Charlotte Margin. Bulletin of the Seismological Society of America, 2015, 105, 1290-1300.	2.3	32
42	Earthquake Activity in Northern Cascadia Subduction Zone Off Vancouver Island Revealed by Oceanâ€Bottom Seismograph Observations. Bulletin of the Seismological Society of America, 2015, 105, 489-495.	2.3	23
43	Seafloor geomorphic manifestations of gas venting and shallow subbottom gas hydrate occurrences. , 2015, 11, 491-513.		28
44	Slipstream: an early Holocene slump and turbidite record from the frontal ridge of the Cascadia accretionary wedge off western Canada and paleoseismic implications. Canadian Journal of Earth Sciences, 2015, 52, 405-430.	1.3	17
45	Observing methane hydrate dissolution rates under sediment cover. Marine Chemistry, 2015, 172, 12-22.	2.3	9
46	Role of gas hydrates in slope failure on frontal ridge of northern Cascadia margin. Geophysical Journal International, 2014, 199, 441-458.	2.4	29
47	Geologic implications of gas hydrates in the offshore of India: Krishnaâ€“Godavari Basin, Mahanadi Basin, Andaman Sea, Keralaâ€“Konkan Basin. Marine and Petroleum Geology, 2014, 58, 29-98.	3.3	98
48	Geologic implications of gas hydrates in the offshore of India: Results of the National Gas Hydrate Program Expedition 01. Marine and Petroleum Geology, 2014, 58, 3-28.	3.3	152
49	Compressional and shear-wave velocities from gas hydrate bearing sediments: Examples from the India and Cascadia margins as well as Arctic permafrost regions. Marine and Petroleum Geology, 2014, 58, 292-320.	3.3	22
50	Methane-derived authigenic carbonates from modern and paleoseeps on the Cascadia margin: Mechanisms of formation and diagenetic signals. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 390, 52-67.	2.3	60
51	Gas hydrate occurrences and their relation to host sediment properties: Results from Second Ulleung Basin Gas Hydrate Drilling Expedition, East Sea. Marine and Petroleum Geology, 2013, 47, 21-29.	3.3	74
52	Anaerobic methane oxidation in low-organic content methane seep sediments. Geochimica Et Cosmochimica Acta, 2013, 108, 184-201.	3.9	44
53	Scientific results of the Second Gas Hydrate Drilling Expedition in the Ulleung Basin (UBGH2). Marine and Petroleum Geology, 2013, 47, 1-20.	3.3	158
54	Occurrence and seismic characteristics of gas hydrate in the Ulleung Basin, East Sea. Marine and Petroleum Geology, 2013, 47, 236-247.	3.3	76

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55	Fracture orientation and induced anisotropy of gas hydrate-bearing sediments in seismic chimney-like-structures of the Ulleung Basin, East Sea. Marine and Petroleum Geology, 2013, 47, 182-194.	3.3	43
56	Temporal variability of in situ methane concentrations in gas hydrateâ€bearing sediments near Bullseye Vent, Northern Cascadia Margin. Geochemistry, Geophysics, Geosystems, 2013, 14, 2445-2459.	2.5	27
57	Field Studies Target 2012 Haida Gwaii Earthquake. Eos, 2013, 94, 197-198.	0.1	27
58	Using the 87Sr/86Sr of modern and paleoseep carbonates from northern Cascadia to link modern fluid flow to the past. Chemical Geology, 2012, 334, 122-130.	3.3	37
59	Seafloor seismometers monitor northern Cascadia earthquakes. Eos, 2011, 92, 421-422.	0.1	15
60	Occurrence and exploration of gas hydrate in the marginal seas and continental margin of the Asia and Oceania region. Marine and Petroleum Geology, 2011, 28, 1751-1767.	3.3	61
61	Characterizing the thermal regime of cold vents at the northern Cascadia margin from bottom-simulating reflector distributions, heat-probe measurements and borehole temperature data. Marine Geophysical Researches, 2010, 31, 1-16.	1.2	26
62	14. Infrared Imaging of Gas-Hydrate-Bearing Cores: State of the Art and Future Prospects. , 2010, , 217-232.		7
63	Gas hydrates in the western deep-water Ulleung Basin, East Sea of Korea. Marine and Petroleum Geology, 2009, 26, 1483-1498.	3.3	81
64	Methane hydrate formation in turbidite sediments of northern Cascadia, IODP Expedition 311. Earth and Planetary Science Letters, 2008, 271, 170-180.	4.4	161
65	Fluid flow and origin of a carbonate mound offshore Vancouver Island: Seismic and heat flow constraints. Marine Geology, 2007, 239, 83-98.	2.1	25
66	Three-dimensional distribution of gas hydrate beneath southern Hydrate Ridge: constraints from ODP Leg 204. Earth and Planetary Science Letters, 2004, 222, 845-862.	4.4	278
67	Seismic investigations of a vent field associated with gas hydrates, offshore Vancouver Island. Journal of Geophysical Research, 2002, 107, EPM 5-1-EPM 5-16.	3.3	119
68	Data report: seismic structure beneath the north Cascadia drilling transect of IODP Expedition 311. , 0, , .		8
69	Data report: a downhole electrical resistivity study of northern Cascadia marine gas hydrate. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	6
70	Expedition 311 Synthesis: scientific findings. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	27