

Volkhard Spiess

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66 papers	2,024 citations	27 h-index	43 g-index
68 ext. papers	2,265 ext. citations	4.1 avg, IF	4.47 L-index

#	Paper	IF	Citations
66	Hydrothermal recharge and discharge across 50 km guided by seamounts on a young ridge flank. <i>Nature</i> , 2003 , 421, 618-21	50.4	201
65	Morphosedimentary and hydrographic features of the northern Argentine margin: The interplay between erosive, depositional and gravitational processes and its conceptual implications. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013 , 75, 157-174	2.5	107
64	Mud volcanoes and gas hydrates in the Black Sea: new data from Dvurechenskii and Odessa mud volcanoes. <i>Geo-Marine Letters</i> , 2003 , 23, 239-249	1.9	105
63	Quantification of gas bubble emissions from submarine hydrocarbon seeps at the Makran continental margin (offshore Pakistan). <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		84
62	Pockmarks in the Northern Congo Fan area, SW Africa: Complex seafloor features shaped by fluid flow. <i>Marine Geology</i> , 2008 , 249, 206-225	3.3	84
61	Subduction zone earthquake as potential trigger of submarine hydrocarbon seepage. <i>Nature Geoscience</i> , 2013 , 6, 647-651	18.3	81
60	Hydrothermal recharge and discharge guided by basement outcrops on 0.7B.6 Ma seafloor east of the Juan de Fuca Ridge: Observations and numerical models. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	72
59	The youngest channel-levee system of the Bengal Fan: results from digital sediment echosounder data. <i>Marine Geology</i> , 1997 , 141, 125-145	3.3	69
58	Glacial/interglacial variability in the Benguela upwelling system: Spatial distribution and budgets of organic carbon accumulation. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 81-1-81-15	5.9	64
57	Mud volcanoes at the front of the Makran accretionary complex, Pakistan. <i>Marine Geology</i> , 2001 , 172, 57-73	3.3	57
56	Authigenic carbonates from active methane seeps offshore southwest Africa. <i>Geo-Marine Letters</i> , 2012 , 32, 501-513	1.9	54
55	Three-dimensional seismic characterization of a venting site reveals compelling indications of natural hydraulic fracturing. <i>Geology</i> , 2004 , 32, 101	5	54
54	Acoustic investigations of mud volcanoes in the Sorokin Trough, Black Sea. <i>Geo-Marine Letters</i> , 2003 , 23, 230-238	1.9	53
53	The architecture and evolution of the Middle Bengal Fan in vicinity of the active channel-levee system imaged by high-resolution seismic data. <i>Marine and Petroleum Geology</i> , 2005 , 22, 637-656	4.7	51
52	Frequent channel avulsions within the active channel-levee system of the middle Bengal Fan – exceptional channel-levee development derived from Parasound and Hydrosweep data. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 1023-1045	2.3	44
51	Fluid flow through active mud dome Mound Culebra offshore Nicoya Peninsula, Costa Rica: evidence from heat flow surveying. <i>Marine Geology</i> , 2004 , 207, 145-157	3.3	43
50	Stable isotope stratigraphy from the Antarctic continental margin during the last one million years. <i>Marine Geology</i> , 1989 , 87, 315-321	3.3	42

49	Controls on subsurface methane fluxes and shallow gas formation in Baltic Sea sediment (Aarhus Bay, Denmark). <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 188, 297-309	5.5	38
48	Sedimentary growth pattern on the northern Argentine slope: The impact of North Atlantic Deep Water on southern hemisphere slope architecture. <i>Marine Geology</i> , 2012 , 329-331, 113-125	3.3	35
47	Acoustic facies and depositional processes in the upper submarine canyon Swatch of No Ground (Bay of Bengal). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003 , 50, 979-1001	2.3	34
46	A base-level stratigraphic approach to determining Holocene subsidence of the GangesMeghnaBrahmaputra Delta plain. <i>Earth and Planetary Science Letters</i> , 2018 , 499, 23-36	5.3	30
45	A low frequency multibeam assessment: Spatial mapping of shallow gas by enhanced penetration and angular response anomaly. <i>Marine and Petroleum Geology</i> , 2013 , 44, 217-222	4.7	30
44	Estimating the free gas content in Baltic Sea sediments using compressional wave velocity from marine seismic data. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 8577-8593	3.6	29
43	Seismostratigraphic analysis with centennial to decadal time resolution of the sediment sink in the GangesBrahmaputra subaqueous delta. <i>Continental Shelf Research</i> , 2011 , 31, 712-730	2.4	29
42	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> , 2008 , 113,		28
41	Expulsion of Shallow Gas in the SkagerrakEvidence from Sub-bottom Profiling, Seismic, Hydroacoustical and Geochemical Data. <i>Estuarine, Coastal and Shelf Science</i> , 1994 , 38, 583-601	2.9	28
40	Evidence for current-controlled sedimentation along the southern Mozambique continental margin since Early Miocene times. <i>Geo-Marine Letters</i> , 2011 , 31, 427-435	1.9	27
39	Fine-grained sediment waves on the western flank of the Zapiola Drift, Argentine Basin: evidence for variations in Late Quaternary bottom flow activity. <i>Marine Geology</i> , 2002 , 192, 239-258	3.3	27
38	Forced regression systems tracts on the Bengal Shelf. <i>Marine Geology</i> , 2005 , 219, 207-218	3.3	27
37	Seismo-acoustic signatures of shallow free gas in the Bornholm Basin, Baltic Sea. <i>Continental Shelf Research</i> , 2014 , 88, 228-239	2.4	24
36	A seismic reconnaissance survey of the northern Congo Fan. <i>Marine Geology</i> , 1997 , 140, 283-306	3.3	22
35	Controlling mechanisms of giant deep water pockmarks in the Lower Congo Basin. <i>Marine and Petroleum Geology</i> , 2017 , 83, 140-157	4.7	21
34	Gas hydrate decomposition recorded by authigenic barite at pockmark sites of the northern Congo Fan. <i>Geo-Marine Letters</i> , 2012 , 32, 515-524	1.9	21
33	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> , 2010 , 115,		19
32	Parasound echosounding: Comparison of analogue and digital echosounder records and physical properties of sediments from the Equatorial South Atlantic. <i>Marine Geology</i> , 1991 , 99, 1-18	3.3	18

31	Post-collapse evolution of a coastal caldera system: Insights from a 3D multichannel seismic survey from the Campi Flegrei caldera (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2018 , 349, 83-98 ^{2.8}	17
30	Frequency dependence in seismoacoustic imaging of shallow free gas due to gas bubble resonance. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 8056-8072	3.6 17
29	A three-dimensional theory for the development and migration of deep sea sedimentary waves. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001 , 48, 2497-2519	2.5 17
28	High-resolution analysis of the deposition pattern on the Amazon sub-aquatic delta and outer continental shelf. <i>Marine Geophysical Researches</i> , 2002 , 23, 209-222	2.3 16
27	Sequence stratigraphic framework of a mixed turbidite-contourite depositional system along the NW slope of the South China Sea. <i>Geo-Marine Letters</i> , 2015 , 35, 1-21	1.9 15
26	Seismic reflectivity anomalies in sediments at the eastern flank of the Juan de Fuca Ridge: Evidence for fluid migration?. <i>Journal of Geophysical Research</i> , 1999 , 104, 15351-15364	15
25	Late Quaternary Seismic Stratigraphy of the Eastern Bengal Shelf. <i>Marine Geophysical Researches</i> , 1998 , 20, 57-71	2.3 14
24	An automated full waveform logging system for high-resolution P-wave profiles in marine sediments. <i>Marine Geophysical Researches</i> , 1993 , 15, 297-321	2.3 14
23	The Campi Flegrei caldera (Italy): Formation and evolution in interplay with sea-level variations since the Campanian Ignimbrite eruption at 39 ka. <i>Journal of Volcanology and Geothermal Research</i> , 2016 , 327, 361-374	2.8 13
22	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> , 2010 , 27, 959-972	4.7 13
21	Reflector Bcl ₃ a prominent feature in the Maud Rise sediment sequence (eastern Weddell Sea): Occurrence, regional distribution and implications to silica diagenesis. <i>Marine Geology</i> , 1992 , 106, 69-87 ^{3.3}	13
20	Cold seeps at the salt front in the Lower Congo Basin I: Current methane accumulation and active seepage. <i>Marine and Petroleum Geology</i> , 2015 , 67, 894-908	4.7 11
19	Fluid generation and distribution in the highest sediment input accretionary margin, the Makran. <i>Earth and Planetary Science Letters</i> , 2014 , 403, 131-143	5.3 10
18	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> , 2008 , 9, n/a-n/a	3.6 10
17	Cold seeps at the salt front in the Lower Congo Basin II: The impact of spatial and temporal evolution of salt-tectonics on hydrocarbon seepage. <i>Marine and Petroleum Geology</i> , 2015 , 67, 880-893	4.7 9
16	Shallow gas transport and reservoirs in the vicinity of deeply rooted mud volcanoes in the central Black Sea. <i>Marine Geology</i> , 2015 , 369, 67-78	3.3 8
15	The Southwest Indian Ocean Bathymetric Compilation (swIOBC). <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 968-976	3.6 7
14	Seismic expressions of shallow gas in the lacustrine deposits of Lake Balaton, Hungary. <i>Near Surface Geophysics</i> , 2015 , 13, 433-447	1.6 7

13	Implications for focused fluid transport at the northern Cascadia accretionary prism from a correlation between BSR occurrence and near-sea-floor reflectivity anomalies imaged in a multi-frequency seismic data set. <i>International Journal of Earth Sciences</i> , 2000 , 88, 655-667	2.2	7
12	Architecture and Stratigraphy of the Bengal Fan as Response to Tectonic and Climate Revealed from High-Resolution Seismic Data 2009 , 107-131		6
11	Strike-slip tectonics in the Pannonian basin based on seismic surveys at Lake Balaton. <i>International Journal of Earth Sciences</i> , 2015 , 104, 2273-2285	2.2	5
10	The sediments of Gunnerus Ridge and Kainan Maru Seamount (Indian sector of Southern Ocean). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1998 , 45, 1515-1540	2.5	5
9	Modeling seismic reflection patterns from Ocean Drilling Program Leg 168 core density logs: Insight into lateral variations in physical properties and sediment input at the eastern flank of the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 2001 , 106, 16119-16133		5
8	Localization and characterization of a gas bubble stream at a Congo deep water seep site using a 3D gridding approach on single-beam echosounder data. <i>Marine and Petroleum Geology</i> , 2018 , 97, 612-623	4.7	4
7	Sedimentation patterns, folding, and fluid upflow above a buried basement ridge: Results from 2-D and 3-D seismic surveys at the eastern Juan de Fuca Ridge flank. <i>Journal of Geophysical Research</i> , 2006 , 111,		4
6	Middle to Late Pleistocene Evolution of the Bengal Fan: Integrating Core and Seismic Observations for Chronostratigraphic Modeling of the IODP Expedition 354 8° North Transect. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008878	3.6	3
5	Geomorphological and seismostratigraphic evidence for multidirectional polyphase glaciation of the northern Celtic Sea. <i>Journal of Quaternary Science</i> , 2020 , 35, 465-478	2.3	2
4	Active Seafloor Seepage Along Hydraulic Fractures Connected to Lateral Stress From Salt-Related Rafting: Regab Pockmark, Congo Fan. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 3301-3319	3.6	2
3	Giant Seafloor Depressions Caused by Slope Failures and Bottom Currents on the Namibia Continental Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2020GC009548	3.6	2
2	Seismic morphologies of submerged late glacial to early Holocene landscapes at the eastern Dogger Bank, central North Sea Basin - implications for geo-archaeological potential. <i>Geological Society Special Publication</i> , SP525-2021-155	1.7	0
1	Surface, Subsurface, and Deep Imaging: Acquisition, Processing, and Interpretation of Seismic and Acoustic Data. <i>Energy Exploration and Exploitation</i> , 2003 , 21, 303-307	2.1	