

Jens Greinert

List of Publications by Year in Descending Order

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

114
papers

5,752
citations

44
h-index

74
g-index

135
ext. papers

6,590
ext. citations

3.8
avg, IF

5.45
L-index

#	Paper	IF	Citations
114	Visualising geospatial time series datasets in realtime with the digital earth viewer. <i>Computers and Graphics</i> , 2022 , 103, 121-121	1.8	1
113	Explosives compounds from sea-dumped relic munitions accumulate in marine biota. <i>Science of the Total Environment</i> , 2022 , 806, 151266	10.2	2
112	Tidally Driven Dispersion of a Deep-Sea Sediment Plume Originating from Seafloor Disturbance in the DISCOL Area (SE-Pacific Ocean). <i>Geosciences (Switzerland)</i> , 2022 , 12, 8	2.7	0
111	The role of heat wave events in the occurrence and persistence of thermal stratification in the southern North Sea. <i>Natural Hazards and Earth System Sciences</i> , 2022 , 22, 1683-1698	3.9	0
110	Importance of Spatial Autocorrelation in Machine Learning Modeling of Polymetallic Nodules, Model Uncertainty and Transferability at Local Scale. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1172	2.4	1
109	MOSES: A Novel Observation System to Monitor Dynamic Events Across Earth Compartments. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-23	6.1	2
108	Automated Activity Estimation of the Cold-Water Coral <i>Lophelia pertusa</i> by Multispectral Imaging and Computational Pixel Classification. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021 , 38, 141-154	2	1
107	Numerical Simulation of Deep-Sea Sediment Transport Induced by a Dredge Experiment in the Northeastern Pacific Ocean. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	6
106	How volcanically active is an abyssal plain? Evidence for recent volcanism on 20Ma Nazca Plate seafloor. <i>Marine Geology</i> , 2021 , 440, 106548	3.3	2
105	PlasPI marine cameras: Open-source, affordable camera systems for time series marine studies.. <i>HardwareX</i> , 2020 , 7, e00102	2.7	3
104	Exploration of the munition dumpsite Kolberger Heide in Kiel Bay, Germany: Example for a standardised hydroacoustic and optic monitoring approach. <i>Continental Shelf Research</i> , 2020 , 198, 104108	2.4	11
103	Scars in the abyss: reconstructing sequence, location and temporal change of the 78 plough tracks of the 1989 DISCOL deep-sea disturbance experiment in the Peru Basin. <i>Biogeosciences</i> , 2020 , 17, 1463-1493	4.6	11
102	Megafauna community assessment of polymetallic-nodule fields with cameras: platform and methodology comparison. <i>Biogeosciences</i> , 2020 , 17, 3115-3133	4.6	8
101	Observations of deep-sea fishes and mobile scavengers from the abyssal DISCOL experimental mining area. <i>Biogeosciences</i> , 2019 , 16, 3133-3146	4.6	11
100	Seep-bubble characteristics and gas flow rates from a shallow-water, high-density seep field on the shelf-to-slope transition of the Hikurangi subduction margin. <i>Marine Geology</i> , 2019 , 417, 105985	3.3	6
99	Genetic link between Miocene seafloor methane seep limestones and underlying carbonate conduit concretions at Rocky Knob, Gisborne, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2019 , 62, 318-340	1.6	3
98	Biological effects 26 years after simulated deep-sea mining. <i>Scientific Reports</i> , 2019 , 9, 8040	4.9	44

97	Variability of Acoustically Evidenced Methane Bubble Emissions Offshore Western Svalbard. <i>Geophysical Research Letters</i> , 2019 , 46, 9072-9081	4.9	10
96	Multi-angle backscatter classification and sub-bottom profiling for improved seafloor characterization. <i>Marine Geophysical Researches</i> , 2018 , 39, 289-306	2.3	12
95	TuLUMIS - a tunable LED-based underwater multispectral imaging system. <i>Optics Express</i> , 2018 , 26, 78113-7828	3.9	11
94	Spread, Behavior, and Ecosystem Consequences of Conventional Munitions Compounds in Coastal Marine Waters. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	34
93	The Character and Formation of Elongated Depressions on the Upper Bulgarian Slope. <i>Journal of Ocean University of China</i> , 2018 , 17, 555-562	1	6
92	Seabed Mining. <i>Springer Geology</i> , 2018 , 481-502	0.8	4
91	An acquisition, curation and management workflow for sustainable, terabyte-scale marine image analysis. <i>Scientific Data</i> , 2018 , 5, 180181	8.2	7
90	Quantitative mapping and predictive modeling of Mn nodules distribution from hydroacoustic and optical AUV data linked by random forests machine learning. <i>Biogeosciences</i> , 2018 , 15, 7347-7377	4.6	21
89	Towards automatic recognition of mining targets using an autonomous robot 2018 ,		2
88	The Hyper-Angular Cube Concept for Improving the Spatial and Acoustic Resolution of MBES Backscatter Angular Response Analysis. <i>Geosciences (Switzerland)</i> , 2018 , 8, 446	2.7	8
87	Understanding Mn-nodule distribution and evaluation of related deep-sea mining impacts using AUV-based hydroacoustic and optical data. <i>Biogeosciences</i> , 2018 , 15, 2525-2549	4.6	38
86	Processing of multibeam water column image data for automated bubble/seep detection and repeated mapping. <i>Limnology and Oceanography: Methods</i> , 2017 , 15, 1-21	2.6	25
85	Enhanced CO uptake at a shallow Arctic Ocean seep field overwhelms the positive warming potential of emitted methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5355-5360	11.5	32
84	Bottom-simulating reflector dynamics at Arctic thermogenic gas provinces: An example from Vestnesa Ridge, offshore west Svalbard. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 4089-4105	2.6	37
83	Compact-Morphology-based poly-metallic Nodule Delineation. <i>Scientific Reports</i> , 2017 , 7, 13338	4.9	24
82	Biological responses to disturbance from simulated deep-sea polymetallic nodule mining. <i>PLoS ONE</i> , 2017 , 12, e0171750	3.7	140
81	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> , 2017 , 18, 2617-2633	3.6	25
80	Dissolved methane in the Beaufort Sea and the Arctic Ocean, 1992-2009; sources and atmospheric flux. <i>Limnology and Oceanography</i> , 2016 , 61, S300-S323	4.8	17

79	Effects of climate change on methane emissions from seafloor sediments in the Arctic Ocean: A review. <i>Limnology and Oceanography</i> , 2016 , 61, S283-S299	4.8	78
78	Perspectives In Visual Imaging for Marine Biology and Ecology: From Acquisition to Understanding. <i>Oceanography and Marine Biology</i> , 2016 , 1-73		9
77	DeepSurveyCam--A Deep Ocean Optical Mapping System. <i>Sensors</i> , 2016 , 16, 164	3.8	35
76	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 4624-4631	4.9	60
75	A quantitative assessment of methane cycling in Hikurangi Margin sediments (New Zealand) using geophysical imaging and biogeochemical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 4817-4835 ¹⁵	3.6	15
74	Turbulent high-latitude oceanic intrusions--details of non-smooth apparent isopycnal transport West of Svalbard. <i>Ocean Dynamics</i> , 2016 , 66, 785-794	2.3	4
73	Current and future trends in marine image annotation software. <i>Progress in Oceanography</i> , 2016 , 149, 106-120	3.8	28
72	Water column methanotrophy controlled by a rapid oceanographic switch. <i>Nature Geoscience</i> , 2015 , 8, 378-382	18.3	67
71	Gas-controlled seafloor doming. <i>Geology</i> , 2015 , 43, 571-574	5	43
70	Estimating the spatial position of marine mammals based on digital camera recordings. <i>Ecology and Evolution</i> , 2015 , 5, 578-89	2.8	2
69	A new methodology for quantifying bubble flow rates in deep water using splitbeam echosounders: Examples from the Arctic offshore NW-Svalbard. <i>Limnology and Oceanography: Methods</i> , 2015 , 13, 267-287	2.6	52
68	Acoustic discrimination of relatively homogeneous fine sediments using Bayesian classification on MBES data. <i>Marine Geology</i> , 2015 , 370, 31-42	3.3	17
67	From ESONET multidisciplinary scientific community to EMSO novel European research infrastructure for ocean observation 2015 , 531-563		6
66	Thermogenic methane injection via bubble transport into the upper Arctic Ocean from the hydrate-charged Vestnesa Ridge, Svalbard. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 1945-1959	3.6	70
65	Benthic nitrogen fluxes and fractionation of nitrate in the Mauritanian oxygen minimum zone (Eastern Tropical North Atlantic). <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 134, 234-256	5.5	39
64	Ocean currents shape the microbiome of Arctic marine sediments. <i>ISME Journal</i> , 2013 , 7, 685-96	11.9	108
63	Sea Floor Methane Hydrates at Hydrate Ridge, Cascadia Margin. <i>Geophysical Monograph Series</i> , 2013 , 87-98	1.1	37
62	Gas Hydrate-Associated Carbonates and Methane-Venting at Hydrate Ridge: Classification, Distribution, and Origin of Authigenic Lithologies. <i>Geophysical Monograph Series</i> , 2013 , 99-113	1.1	63

61	Carbon Isotopes of Biomarkers Derived from Methane-Oxidizing Microbes at Hydrate Ridge, Cascadia Convergent Margin. <i>Geophysical Monograph Series</i> , 2013 , 115-129	1.1	14
60	Variability of internal frontal bore breaking above Opuawe Bank methane seep area (New Zealand). <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 2460-2473	3.6	4
59	Arctic methane sources: Isotopic evidence for atmospheric inputs. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	105
58	Diversity and biogeochemical structuring of bacterial communities across the Porangahau ridge accretionary prism, New Zealand. <i>FEMS Microbiology Ecology</i> , 2011 , 77, 518-32	4.3	23
57	Societal need for improved understanding of climate change, anthropogenic impacts, and geo-hazard warning drive development of ocean observatories in European Seas. <i>Progress in Oceanography</i> , 2011 , 91, 1-33	3.8	65
56	Quantification of seep-related methane gas emissions at Tommeliten, North Sea. <i>Continental Shelf Research</i> , 2011 , 31, 867-878	2.4	91
55	Cold-water coral habitats in the Penmarc'h and Guilvinec Canyons (Bay of Biscay): Deep-water versus shallow-water settings. <i>Marine Geology</i> , 2011 , 282, 40-52	3.3	59
54	Acoustic imaging of natural gas seepage in the North Sea: Sensing bubbles controlled by variable currents. <i>Limnology and Oceanography: Methods</i> , 2010 , 8, 155-171	2.6	63
53	Atmospheric methane flux from bubbling seeps: Spatially extrapolated quantification from a Black Sea shelf area. <i>Journal of Geophysical Research</i> , 2010 , 115,		55
52	Morphology and recent history of the Rhone River Delta in Lake Geneva (Switzerland). <i>Swiss Journal of Geosciences</i> , 2010 , 103, 33-42	2.1	20
51	Acoustic and visual characterisation of methane-rich seabed seeps at Omakere Ridge on the Hikurangi Margin, New Zealand. <i>Marine Geology</i> , 2010 , 272, 154-169	3.3	39
50	Geological imprint of methane seepage on the seabed and biota of the convergent Hikurangi Margin, New Zealand: Box core and grab carbonate results. <i>Marine Geology</i> , 2010 , 272, 285-306	3.3	43
49	Methane seepage along the Hikurangi Margin, New Zealand: Overview of studies in 2006 and 2007 and new evidence from visual, bathymetric and hydroacoustic investigations. <i>Marine Geology</i> , 2010 , 272, 6-25	3.3	94
48	Gas seepage in the Dnepr paleo-delta area (NW-Black Sea) and its regional impact on the water column methane cycle. <i>Journal of Marine Systems</i> , 2010 , 80, 90-100	2.7	26
47	Seismic imaging of gas conduits beneath seafloor seep sites in a shallow marine gas hydrate province, Hikurangi Margin, New Zealand. <i>Marine Geology</i> , 2010 , 272, 114-126	3.3	69
46	Tectonic and geological framework for gas hydrates and cold seeps on the Hikurangi subduction margin, New Zealand. <i>Marine Geology</i> , 2010 , 272, 26-48	3.3	203
45	Morphometric and critical taper analysis of the Rock Garden region, Hikurangi Margin, New Zealand: Implications for slope stability and potential tsunami generation. <i>Marine Geology</i> , 2010 , 272, 141-153	3.3	22
44	Active venting sites on the gas-hydrate-bearing Hikurangi Margin, off New Zealand: Diffusive-versus bubble-released methane. <i>Marine Geology</i> , 2010 , 272, 233-250	3.3	36

43	Focussed fluid flow on the Hikurangi Margin, New Zealand [Evidence from possible local upwarping of the base of gas hydrate stability. <i>Marine Geology</i> , 2010 , 272, 99-113	3.3	76
42	Testing proposed mechanisms for seafloor weakening at the top of gas hydrate stability on an uplifted submarine ridge (Rock Garden), New Zealand. <i>Marine Geology</i> , 2010 , 272, 127-140	3.3	28
41	Methane seepage along the Hikurangi Margin of New Zealand: Geochemical and physical data from the water column, sea surface and atmosphere. <i>Marine Geology</i> , 2010 , 272, 170-188	3.3	44
40	Geo- and hydro-acoustic manifestations of shallow gas and gas seeps in the Dnepr paleodelta, northwestern Black Sea. <i>The Leading Edge</i> , 2009 , 28, 1030-1040	1	23
39	Single bubble dissolution model [The graphical user interface SiBu-GUI. <i>Environmental Modelling and Software</i> , 2009 , 24, 1012-1013	5.2	24
38	Monitoring temporal variability of bubble release at seeps: The hydroacoustic swath system GasQuant. <i>Journal of Geophysical Research</i> , 2008 , 113,		51
37	Silicate weathering in anoxic marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 2895-2918	5.5	148
36	Silicate weathering in anoxic marine sediments. <i>Mineralogical Magazine</i> , 2008 , 72, 363-366	1.7	7
35	Anomalous sea-floor backscatter patterns in methane venting areas, Dnepr paleo-delta, NW Black Sea. <i>Marine Geology</i> , 2008 , 251, 253-267	3.3	61
34	Hydrocarbon seep-carbonates of a Miocene forearc (East Coast Basin), North Island, New Zealand. <i>Sedimentary Geology</i> , 2008 , 204, 83-105	2.8	80
33	Flare imaging with multibeam systems: Data processing for bubble detection at seeps. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	53
32	Authigenic carbon entombed in methane-soaked sediments from the northeastern transform margin of the Guaymas Basin, Gulf of California. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007 , 54, 1240-1267	2.3	50
31	RECENT STUDIES ON SOURCES AND SINKS OF METHANE IN THE BLACK SEA. <i>NATO Science Series Series IV, Earth and Environmental Sciences</i> , 2006 , 419-441		8
30	Methane seepage and its relation to slumping and gas hydrate at the Hikurangi margin, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2006 , 49, 503-516	1.6	47
29	Efficiency of the benthic filter: Biological control of the emission of dissolved methane from sediments containing shallow gas hydrates at Hydrate Ridge. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	74
28	Methanotrophic microbial communities associated with bubble plumes above gas seeps in the Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	25
27	Fate of rising methane bubbles in stratified waters: How much methane reaches the atmosphere?. <i>Journal of Geophysical Research</i> , 2006 , 111,		364
26	1300-m-high rising bubbles from mud volcanoes at 2080m in the Black Sea: Hydroacoustic characteristics and temporal variability. <i>Earth and Planetary Science Letters</i> , 2006 , 244, 1-15	5.3	189

25	Separation of ^3He and CH_4 signals on the Mid-Atlantic Ridge at 5°N and 51°N . <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5766-5778	5.5	9
24	Geological and morphological setting of 2778 methane seeps in the Dnepr paleo-delta, northwestern Black Sea. <i>Marine Geology</i> , 2006 , 227, 177-199	3.3	145
23	Simulation of long-term feedbacks from authigenic carbonate crust formation at cold vent sites. <i>Chemical Geology</i> , 2005 , 216, 157-174	4.2	57
22	A study of the chemistry of pore fluids and authigenic carbonates in methane seep environments: Kodiak Trench, Hydrate Ridge, Monterey Bay, and Eel River Basin. <i>Chemical Geology</i> , 2005 , 220, 329-345	4.2	87
21	Methane and methane carbon isotope ratios in the Northeast Atlantic including the Mid-Atlantic Ridge (50°N). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005 , 52, 1043-1070	2.5	18
20	Methane emission from high-intensity marine gas seeps in the Black Sea into the atmosphere. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	74
19	Hydroacoustic experiments to establish a method for the determination of methane bubble fluxes at cold seeps. <i>Geo-Marine Letters</i> , 2004 , 24, 75-85	1.9	50
18	Glendonites and methane-derived Mg-calcites in the Sea of Okhotsk, Eastern Siberia: implications of a venting-related ikaite/glendonite formation. <i>Marine Geology</i> , 2004 , 204, 129-144	3.3	61
17	Visual and Hydroacoustic Investigations of Gas Bubbles Detection and Quantification of Natural and Man-Made Methane Expulsions. <i>Energy Exploration and Exploitation</i> , 2003 , 21, 293-297	2.1	
16	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
15	Depth-related structure and ecological significance of cold-seep communities—case study from the Sea of Okhotsk. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003 , 50, 1391-1409	2.5	116
14	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> , 2002 , 91, 698-711	2.2	74
13	Sedimentation and formation of secondary minerals in the hypersaline Discovery Basin, eastern Mediterranean. <i>Marine Geology</i> , 2002 , 186, 9-28	3.3	28
12	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> , 2002 , 203, 165-180	5.3	125
11	Brennendes Eis: Methanhydrat [Energiequelle der Zukunft oder Gefahr für Klima?]. <i>Physik Journal</i> , 2001 , 57, 49-54		4
10	The link between bottom-simulating reflections and methane flux into the gas hydrate stability zone [new evidence from Lima Basin, Peru Margin. <i>Earth and Planetary Science Letters</i> , 2001 , 185, 343-354	5.3	49
9	Authigenic Carbonate and Barite Mineralization in Sediments of the Deryugin Basin (Sea of Okhotsk). <i>Lithology and Mineral Resources</i> , 2000 , 35, 504-508	0.7	10
8	Archaea mediating anaerobic methane oxidation in deep-sea sediments at cold seeps of the eastern Aleutian subduction zone. <i>Organic Geochemistry</i> , 2000 , 31, 1175-1187	3.1	176

7	Quantum rotations in natural methane-clathrates from the Pacific sea-floor. <i>Europhysics Letters</i> , 1999 , 48, 269-275	1.6	33
6	Flammable Ice. <i>Scientific American</i> , 1999 , 281, 76-83	0.5	50
5	Gas hydrate destabilization: enhanced dewatering, benthic material turnover and large methane plumes at the Cascadia convergent margin. <i>Earth and Planetary Science Letters</i> , 1999 , 170, 1-15	5.3	333
4	Authigenic carbonates from the Cascadia subduction zone and their relation to gas hydrate stability. <i>Geology</i> , 1998 , 26, 647	5	314
3	Quantifying fluid flow, solute mixing, and biogeochemical turnover at cold vents of the eastern Aleutian subduction zone. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 5209-5219	5.5	125
2	Biomarker chemistry and flux quantification methods for natural petroleum seeps and produced oils, offshore southern California. <i>USGS Scientific Investigations Report</i> , i-45		5
1	Quantification of the fine-scale distribution of Mn-nodules: insights from AUV multi-beam and optical imagery data fusion		4