

Sven Petersen

List of Publications by Year in descending order

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105
papers

4,826
citations

117619

34
h-index

114455

63
g-index

111
all docs

111
docs citations

111
times ranked

3310
citing authors

#	ARTICLE	IF	CITATIONS
1	The abundance of seafloor massive sulfide deposits. <i>Geology</i> , 2011, 39, 1155-1158.	4.4	319
2	The internal structure of an active sea-floor massive sulphide deposit. <i>Nature</i> , 1995, 377, 713-716.	27.8	284
3	News from the seabed – Geological characteristics and resource potential of deep-sea mineral resources. <i>Marine Policy</i> , 2016, 70, 175-187.	3.2	245
4	Sea-Floor Tectonics and Submarine Hydrothermal Systems. , 2005, , .		192
5	Active and relict sea-floor hydrothermal mineralization at the TAG hydrothermal field, Mid-Atlantic Ridge. <i>Economic Geology</i> , 1993, 88, 1989-2017.	3.8	176
6	Gold-rich polymetallic sulfides from the Lau back arc and implications for the geochemistry of gold in sea-floor hydrothermal systems of the Southwest Pacific. <i>Economic Geology</i> , 1993, 88, 2182-2209.	3.8	152
7	Effects of temperature, sulfur, and oxygen fugacity on the composition of sphalerite from submarine hydrothermal vents. <i>Geology</i> , 2014, 42, 699-702.	4.4	143
8	Distribution and solubility limits of trace elements in hydrothermal black smoker sulfides: An in-situ LA-ICP-MS study. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 159, 16-41.	3.9	143
9	Scientific rationale and international obligations for protection of active hydrothermal vent ecosystems from deep-sea mining. <i>Marine Policy</i> , 2018, 90, 20-28.	3.2	134
10	Physical and Chemical Processes of Seafloor Mineralization at Mid-Ocean Ridges. <i>Geophysical Monograph Series</i> , 0, , 115-157.	0.1	130
11	The geological setting of the ultramafic-hosted Logatchev hydrothermal field (14°45'N, Mid-Atlantic) Tj ETQq11_0.784314.rgBT / Dv	1.4	122
12	Hydrothermal exploration of mid-ocean ridges: Where might the largest sulfide deposits be forming?. <i>Chemical Geology</i> , 2016, 420, 114-126.	3.3	117
13	Third dimension of a presently forming VMS deposit: TAG hydrothermal mound, Mid-Atlantic Ridge, 26°N. <i>Mineralium Deposita</i> , 2000, 35, 233-259.	4.1	100
14	Tectonic structure, evolution, and the nature of oceanic core complexes and their detachment fault zones (13°20'N and 13°30'N, Mid Atlantic Ridge). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1451-1482.	2.5	94
15	Hybrid shallow on-axis and deep off-axis hydrothermal circulation at fast-spreading ridges. <i>Nature</i> , 2014, 508, 508-512.	27.8	88
16	Discovery of new hydrothermal vent sites in Bransfield Strait, Antarctica. <i>Earth and Planetary Science Letters</i> , 2001, 193, 395-407.	4.4	86
17	Constraints on the behavior of trace elements in the actively-forming TAG deposit, Mid-Atlantic Ridge, based on LA-ICP-MS analyses of pyrite. <i>Chemical Geology</i> , 2018, 498, 45-71.	3.3	86
18	Young volcanism and related hydrothermal activity at 5°S on the slow-spreading southern Mid-Atlantic Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	83

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19	A model for growth of steep-sided vent structures on the Endeavour Segment of the Juan de Fuca Ridge: Results of a petrologic and geochemical study. <i>Journal of Geophysical Research</i> , 1999, 104, 22859-22883.	3.3	81
20	Comparison of the TAG mound and stockwork complex with Cyprus-type, massive sulfide deposits. , 0, , .		81
21	Mineralogy and trace element geochemistry of sulfide minerals from the Wocan Hydrothermal Field on the slow-spreading Carlsberg Ridge, Indian Ocean. <i>Ore Geology Reviews</i> , 2017, 84, 1-19.	2.7	79
22	Constraints on Water Depth of Massive Sulfide Formation: Evidence from Modern Seafloor Hydrothermal Systems in Arc-Related Settings. <i>Economic Geology</i> , 2014, 109, 2079-2101.	3.8	78
23	Submarine Gold Mineralization Near Lihir Island, New Ireland Fore-Arc, Papua New Guinea. <i>Economic Geology</i> , 2002, 97, 1795-1813.	3.8	66
24	Rifting under steamâ€”How rift magmatism triggers methane venting from sedimentary basins. <i>Geology</i> , 2016, 44, 767-770.	4.4	59
25	Drilling Shallow-Water Massive Sulfides at the Palinuro Volcanic Complex, Aeolian Island Arc, Italy. <i>Economic Geology</i> , 2014, 109, 2129-2158.	3.8	58
26	Geological fate of seafloor massive sulphides at the TAG hydrothermal field (Mid-Atlantic Ridge). <i>Ore Geology Reviews</i> , 2019, 107, 903-925.	2.7	56
27	Diking, young volcanism and diffuse hydrothermal activity on the southern Mid-Atlantic Ridge: The Lilliput field at 9Â°33â€™S. <i>Marine Geology</i> , 2009, 266, 52-64.	2.1	55
28	Hydrothermal precipitates associated with bimodal volcanism in the Central Bransfield Strait, Antarctica. <i>Mineralium Deposita</i> , 2004, 39, 358-379.	4.1	50
29	Microbial metalâ€”sulfide oxidation in inactive hydrothermal vent chimneys suggested by metagenomic and metaproteomic analyses. <i>Environmental Microbiology</i> , 2019, 21, 682-701.	3.8	50
30	Feâ€”Si-oxyhydroxide deposits at a slow-spreading centre with thickened oceanic crust: The Lilliput hydrothermal field (9Â°33â€™S, Mid-Atlantic Ridge). <i>Chemical Geology</i> , 2010, 278, 186-200.	3.3	48
31	Oxidative dissolution of hydrothermal mixed-sulphide ore: An assessment of current knowledge in relation to seafloor massive sulphide mining. <i>Ore Geology Reviews</i> , 2017, 86, 309-337.	2.7	46
32	The physicochemical habitat of <i>Sclerolinum</i> sp. at Hook Ridge hydrothermal vent, Bransfield Strait, Antarctica. <i>Limnology and Oceanography</i> , 2005, 50, 598-606.	3.1	45
33	Linking geology, fluid chemistry, and microbial activity of basaltâ€”and ultramaficâ€”hosted deepâ€”sea hydrothermal vent environments. <i>Geobiology</i> , 2013, 11, 340-355.	2.4	44
34	Hydrothermalism in the Tyrrhenian Sea: Inorganic and microbial sulfur cycling as revealed by geochemical and multiple sulfur isotope data. <i>Chemical Geology</i> , 2011, 280, 217-231.	3.3	42
35	Widespread Occurrence of Two Carbon Fixation Pathways in Tubeworm Endosymbionts: Lessons from Hydrothermal Vent Associated Tubeworms from the Mediterranean Sea. <i>Frontiers in Microbiology</i> , 2012, 3, 423.	3.5	38
36	Mineralogy and geochemistry of hydrothermal precipitates from Kairei hydrothermal field, Central Indian Ridge. <i>Marine Geology</i> , 2014, 354, 69-80.	2.1	37

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37	Divining gold in seafloor polymetallic massive sulfide systems. <i>Mineralium Deposita</i> , 2019, 54, 789-820.	4.1	36
38	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> , 2001, 193, 381-394.	4.4	34
39	Biosignatures present in a hydrothermal massive sulfide from the Mid-Atlantic Ridge. <i>Geobiology</i> , 2007, 5, 435-450.	2.4	34
40	Marine Mineral Exploration With Controlled Source Electromagnetics at the TAG Hydrothermal Field, 26°N Mid-Atlantic Ridge. <i>Geophysical Research Letters</i> , 2019, 46, 5808-5816.	4.0	34
41	Subsea mining moves closer to shore. <i>Nature Geoscience</i> , 2017, 10, 158-159.	12.9	33
42	Hydrothermal activity at Hook Ridge in the Central Bransfield Basin, Antarctica. <i>Geo-Marine Letters</i> , 1998, 18, 277-284.	1.1	31
43	PGE distribution in massive sulfides from the PACMANUS hydrothermal field, eastern Manus basin, Papua New Guinea: implications for PGE enrichment in some ancient volcanogenic massive sulfide deposits. <i>Mineralium Deposita</i> , 2004, 39, 784-792.	4.1	30
44	Fault geometry and permeability contrast control vent temperatures at the Logatchev 1 hydrothermal field, Mid-Atlantic Ridge. <i>Geology</i> , 2015, 43, 51-54.	4.4	30
45	Inorganic and biogenic As-sulfide precipitation at seafloor hydrothermal fields. <i>Marine Geology</i> , 2013, 342, 28-38.	2.1	29
46	Genesis of corrugated fault surfaces by strain localization recorded at oceanic detachments. <i>Earth and Planetary Science Letters</i> , 2018, 498, 116-128.	4.4	29
47	Electrical properties of seafloor massive sulfides. <i>Geo-Marine Letters</i> , 2016, 36, 235-245.	1.1	27
48	Trace Metal Distribution in Sulfide Minerals from Ultramafic-Hosted Hydrothermal Systems: Examples from the Kairei Vent Field, Central Indian Ridge. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 526.	2.0	27
49	Mineralization and Alteration of a Modern Seafloor Massive Sulfide Deposit Hosted in Mafic Volcaniclastic Rocks. <i>Economic Geology</i> , 2019, 114, 857-896.	3.8	27
50	Geochemistry of vent fluid particles formed during initial hydrothermal fluid-seawater mixing along the Mid-Atlantic Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	26
51	High-resolution magnetics reveal the deep structure of a volcanic-related basalt-hosted hydrothermal site (Palinuro, Tyrrhenian Sea). <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1950-1961.	2.5	26
52	A self-potential investigation of submarine massive sulfides: Palinuro Seamount, Tyrrhenian Sea. <i>Geophysics</i> , 2017, 82, A51-A56.	2.6	25
53	Shallow Drilling of Seafloor Hydrothermal Systems Using the BGS Rockdrill: Conical Seamount (New Tj ETQq1 1 0.784314 rgBT / Overlo Geotechnology, 2005, 23, 175-193.	2.1	24
54	PGE fractionation in seafloor hydrothermal systems: examples from mafic- and ultramafic-hosted hydrothermal fields at the slow-spreading Mid-Atlantic Ridge. <i>Mineralium Deposita</i> , 2007, 42, 423-431.	4.1	24

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55	Early depositional history of metalliferous sediments in the Atlantis II Deep of the Red Sea: Evidence from rare earth element geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 146-168.	3.9	24
56	Mineral chemistry, bulk rock geochemistry, and S ³⁴ isotope signature of lode-gold mineralization in the Bâtarâ Oya gold district, south-east Cameroon. <i>Geological Journal</i> , 2018, 53, 2579-2596.	1.3	24
57	Modern Seafloor Hydrothermal Systems: New Perspectives on Ancient Ore-Forming Processes. <i>Elements</i> , 2018, 14, 307-312.	0.5	24
58	First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history. <i>Earth and Planetary Science Letters</i> , 2016, 450, 96-107.	4.4	21
59	The Daxi Vent Field: An active mafic-hosted hydrothermal system at a non-transform offset on the slow-spreading Carlsberg Ridge, 6°48'N. <i>Ore Geology Reviews</i> , 2021, 129, 103888.	2.7	21
60	Geochemistry and sulfur-isotopic composition of the TAG hydrothermal mound, Mid-Atlantic Ridge, 26°N. , 0, , .		21
61	Heat flow and mineralogy of TAG Relict High-Temperature Hydrothermal Zones: Mid-Atlantic Ridge 26°N, 45°W. <i>Geophysical Research Letters</i> , 1996, 23, 3507-3510.	4.0	20
62	Modern Sea-Floor Massive Sulfides and Base Metal Resources<sub>title>Toward an Estimate of Global Sea-Floor Massive Sulfide Potential</sub>. , 2010, , .		20
63	Textural and mineralogical changes associated with the incipient hydrothermal alteration of glassy dacite at the submarine PACMANUS hydrothermal system, eastern Manus Basin. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 160, 23-41.	2.1	19
64	New insights into the mineralogy of the Atlantis II Deep metalliferous sediments, Red Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4449-4478.	2.5	19
65	Physico-chemical properties of newly discovered hydrothermal plumes above the Southern Mid-Atlantic Ridge (13°-33°S). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019, 148, 34-52.	1.4	19
66	Comparison between magmatic activity and gold mineralization at Conical Seamount and Lihir Island, Papua New Guinea. <i>Mineralogy and Petrology</i> , 2003, 79, 259-283.	1.1	18
67	The 8 Aug 2019 eruption of Volcano Fâ™™ in the Tofua Arc, Tonga. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 390, 106695.	2.1	18
68	Atacamite and paratacamite from the ultramafic-hosted Logatchev seafloor vent field (14°45'N,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.3	17
69	Explosion craters associated with shallow submarine gas venting off Panarea island, Italy. <i>Bulletin of Volcanology</i> , 2012, 74, 1937-1944.	3.0	17
70	Trace metal distribution in the Atlantis II Deep (Red Sea) sediments. <i>Chemical Geology</i> , 2014, 386, 80-100.	3.3	16
71	Structural Control, Evolution, and Accumulation Rates of Massive Sulfides in the TAG Hydrothermal Field. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009185.	2.5	16
72	Shallow Seismicity and the Classification of Structures in the Lau Back-Arc Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008924.	2.5	16

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73	Petrology of hydrothermal mineralization: a vertical section through the TAG mound. , 0, , .		16
74	Faulting and off-axis submarine massive sulfide accumulation at slow spreading mid-ocean ridges: A numerical modeling perspective. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2305-2320.	2.5	15
75	Shallow Submarine Hydrothermal Systems in the Aeolian Volcanic Arc, Italy. <i>Eos</i> , 2009, 90, 110-111.	0.1	14
76	Controls on the seafloor exposure of detachment fault surfaces. <i>Earth and Planetary Science Letters</i> , 2019, 506, 381-387.	4.4	13
77	XRD Identification of Ore Minerals during Cruises: Refinement of Extraction Procedure with Sodium Acetate Buffer. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 160.	2.0	13
78	Detachment tectonics at Mid-Atlantic Ridge 26°N. <i>Scientific Reports</i> , 2019, 9, 11830.	3.3	12
79	Submarine Gold Mineralization Near Lihir Island, New Ireland Fore-Arc, Papua New Guinea. <i>Economic Geology</i> , 2002, 97, 1795-1813.	3.8	12
80	Fluid inclusion studies as a guide to the temperature regime within the TAG hydrothermal mound, 26°N, Mid-Atlantic Ridge. , 0, , .		12
81	Geological, Mineralogical and Textural Impacts on the Distribution of Environmentally Toxic Trace Elements in Seafloor Massive Sulfide Occurrences. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 162.	2.0	11
82	Magnetic and Gravity Surface Geometry Inverse Modeling of the TAG Active Mound. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022228.	3.4	11
83	Tectonic and magmatic controls on hydrothermal activity in the Woodlark Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	9
84	Geological mapping of the Menez Gwen segment at 37°50'N on the Mid-Atlantic Ridge: Implications for accretion mechanisms and associated hydrothermal activity at slow-spreading mid-ocean ridges. <i>Marine Geology</i> , 2019, 412, 107-122.	2.1	9
85	Technology developments in the exploration and evaluation of deep-sea mineral resources. <i>Annales Des Mines - Responsabilit� Et Environnement</i> , 2017, N� 85, 14-18.	0.1	9
86	The submarine tectono-magmatic framework of Cu-Au endowment in the Tabar-to-Feni island chain, PNG. <i>Ore Geology Reviews</i> , 2020, 121, 103491.	2.7	8
87	P-wave velocity measurements for preliminary assessments of the mineralization in seafloor massive sulfide mini-cores during drilling operations. <i>Engineering Geology</i> , 2017, 226, 316-325.	6.3	7
88	Siting of gold and characteristics of gold-bearing massive sulfides from the interior of the felsic-hosted PACMANUS massive sulfide deposit, eastern Manus basin (PNG). , 2005, , 623-626.		7
89	Seabed Mining. <i>Springer Geology</i> , 2018, , 481-502.	0.3	6
90	The Discovery and Preliminary Geological and Faunal Descriptions of Three New Steinh�ll Vent Sites, Reykjanes Ridge, Iceland. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	6

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91	SANTORY: SANTORINI'S Seafloor Volcanic Observatory. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	6
92	Hydrothermalism. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 344-357.	0.1	5
93	Estimating the metal content of SMS deposits. , 2011, , .		4
94	Factors controlling precious and base-metal enrichments at the ultramafic-hosted Logatchev hydrothermal field, 14°45'N on the MAR: New insights from cruise M60/3. , 2005, , 679-682.		4
95	Are modern seafloor massive sulfide deposits a possible resource for mankind: Lessons learned from shallow drilling operations. , 2011, , .		3
96	Texture, mineralogy and geochemistry of hydrothermally altered submarine volcanics recovered southeast of Cheshire Seamount, western Woodlark Basin. <i>Marine Geology</i> , 2014, 347, 69-84.	2.1	3
97	Magnetic susceptibility measurements of seafloor massive sulphide mini-core samples for deep-sea mining applications. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2017, 50, 88-93.	1.4	3
98	Deep-sea electric and magnetic surveys over active and inactive basalt-hosted hydrothermal sites of the TAG Segment (26°N, MAR): An optimal combination for seafloor massive sulfide exploration. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022082.	3.4	3
99	Volcanogenic Massive Sulfides. , 2014, , 1-9.		3
100	Seafloor massive sulfide deposits: Continuing efforts toward a global estimate of seafloor massive sulfides. , 2015, , .		1
101	Marine Mineral Resources. , 2015, , 1-9.		1
102	Arsenian pyrite-bearing altered volcanics dredged SE of Cheshire Seamount, western Woodlark Basin, Papua New Guinea. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2013, 190, 327-340.	0.3	0
103	Volcanogenic Massive Sulfides. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 917-923.	0.1	0
104	Modelling the geometry of the Trans-Atlantic Geotraverse seafloor massive sulphide deposit through magnetic surface geometry inversion. , 2020, , .		0
105	Hydrothermalism. , 2015, , 1-20.		0