

Edward Baker

List of Publications by Citations

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177
papers

8,229
citations

52
h-index

82
g-index

181
ext. papers

9,113
ext. citations

7.7
avg, IF

5.58
L-index

#	Paper	IF	Citations
177	Nimbus-7 coastal zone color scanner: system description and initial imagery. <i>Science</i> , 1980 , 210, 60-3	33.3	295
176	The effect of particle size on the light attenuation coefficient of natural suspensions. <i>Journal of Geophysical Research</i> , 1984 , 89, 8197		245
175	Cataclysmic hydrothermal venting on the Juan de Fuca Ridge. <i>Nature</i> , 1987 , 329, 149-151	50.4	236
174	Field assessment of sediment trap efficiency under varying flow conditions. <i>Journal of Marine Research</i> , 1988 , 46, 573-592	1.5	200
173	Characteristics of hydrothermal plumes from two vent fields on the Juan de Fuca Ridge, northeast Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 1987 , 85, 59-73	5.3	172
172	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. <i>Nature</i> , 2003 , 421, 252-6	50.4	171
171	Evolution of a Submarine Magmatic-Hydrothermal System: Brothers Volcano, Southern Kermadec Arc, New Zealand. <i>Economic Geology</i> , 2005 , 100, 1097-1133	4.3	162
170	Episodic venting of hydrothermal fluids from the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1989 , 94, 9237		160
169	A sea-floor spreading event captured by seismometers. <i>Science</i> , 2006 , 314, 1920-2	33.3	146
168	Bacterial scavenging of Mn and Fe in a mid- to far-field hydrothermal particle plume. <i>Nature</i> , 1986 , 322, 169-171	50.4	139
167	Intra-oceanic subduction-related hydrothermal venting, Kermadec volcanic arc, New Zealand. <i>Earth and Planetary Science Letters</i> , 2001 , 193, 359-369	5.3	136
166	An authoritative global database for active submarine hydrothermal vent fields. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 4892-4905	3.6	133
165	Hydrothermal activity along the southwest Indian ridge. <i>Nature</i> , 1998 , 395, 490-493	50.4	123
164	Variable ³ He/heat ratios in submarine hydrothermal systems: evidence from two plumes over the Juan de Fuca ridge. <i>Nature</i> , 1989 , 337, 161-164	50.4	120
163	Active submarine eruption of boninite in the northeastern Lau Basin. <i>Nature Geoscience</i> , 2011 , 4, 799-806	8.3	115
162	Submarine venting of liquid carbon dioxide on a Mariana Arc volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	113
161	The relationship between near-axis hydrothermal cooling and the spreading rate of mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 1996 , 142, 137-145	5.3	110

160	The effect of hydrothermal processes on midwater phosphorus distributions in the northeast Pacific. <i>Earth and Planetary Science Letters</i> , 1990 , 96, 305-318	5.3	108
159	Initial results of the rapid response to the 1993 CoAxial event: Relationships between hydrothermal and volcanic processes. <i>Geophysical Research Letters</i> , 1995 , 22, 143-146	4.9	106
158	Where are the undiscovered hydrothermal vents on oceanic spreading ridges?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 121, 202-212	2.3	104
157	Long-term eruptive activity at a submarine arc volcano. <i>Nature</i> , 2006 , 441, 494-7	50.4	101
156	Discovery of ancient and active hydrothermal systems along the ultra-slow spreading Southwest Indian Ridge 10°16'E. <i>Geochemistry, Geophysics, Geosystems</i> , 2002 , 3, 1-14	3.6	98
155	Composition and sedimentation of hydrothermal plume particles from North Cleft segment, Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1994 , 99, 4985-5006		95
154	Hydrothermal particle plumes over the southern Juan de Fuca Ridge. <i>Nature</i> , 1985 , 316, 342-344	50.4	91
153	Geology of the northern Cleft segment, Juan de Fuca Ridge: Recent lava flows, sea-floor spreading, and the formation of megaplumes. <i>Geology</i> , 1991 , 19, 771	5	90
152	Biological and physical processes in and around Astoria submarine Canyon, Oregon, USA. <i>Journal of Marine Systems</i> , 2004 , 50, 21-37	2.7	85
151	Hydrothermal activity and volcano distribution along the Mariana arc. <i>Journal of Geophysical Research</i> , 2008 , 113,		84
150	Opposing trends in crustal thickness and spreading rate along the back-arc Eastern Lau Spreading Center: Implications for controls on ridge morphology, faulting, and hydrothermal activity. <i>Earth and Planetary Science Letters</i> , 2006 , 245, 655-672	5.3	84
149	Hydrothermal venting in magma deserts: The ultraslow-spreading Gakkel and Southwest Indian Ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5,	3.6	81
148	An in situ erosion rate for a fine-grained marine sediment. <i>Journal of Geophysical Research</i> , 1984 , 89, 6543		81
147	Changes in submarine hydrothermal ³ He/heat ratios as an indicator of magmatic/tectonic activity. <i>Nature</i> , 1990 , 346, 556-558	50.4	77
146	Volcanic Eruptions in the Deep Sea. <i>Oceanography</i> , 2012 , 25, 142-157	2.3	76
145	Hydrothermal event plumes from the coaxial seafloor eruption site, Juan de Fuca Ridge. <i>Geophysical Research Letters</i> , 1995 , 22, 147-150	4.9	75
144	Contemporary sedimentation processes in and around an active West Coast submarine canyon. <i>Marine Geology</i> , 1986 , 71, 15-34	3.3	75
143	A method for quantitatively estimating diffuse and discrete hydrothermal discharge. <i>Earth and Planetary Science Letters</i> , 1993 , 118, 235-249	5.3	74

142	Temporal and spatial variability of hydrothermal manganese and iron at Cleft segment, Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1994 , 99, 4905-4923		71
141	Vailuluʻu Seamount, Samoa: Life and death on an active submarine volcano. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6448-53	11.5	70
140	The effect of magmatic activity on hydrothermal venting along the superfast-spreading East Pacific Rise. <i>Science</i> , 1995 , 269, 1092-5	33.3	68
139	A 6-year time series of hydrothermal plumes over the Cleft segment of the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1994 , 99, 4889-4904		68
138	Submarine hydrothermal activity along the mid-Kermadec Arc, New Zealand: Large-scale effects on venting. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	67
137	On the Global Distribution of Hydrothermal Vent Fields. <i>Geophysical Monograph Series</i> , 2013 , 245-266	1.1	66
136	Distribution and composition of hydrothermal plume particles from the ASHES Vent Field at Axial Volcano, Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1990 , 95, 12855		65
135	In situ chemical mapping of dissolved iron and manganese in hydrothermal plumes. <i>Nature</i> , 1991 , 352, 325-328	50.4	64
134	Hydrothermal venting and the apparent magmatic budget of the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1992 , 97, 3443-3456		64
133	Hydrothermal plume measurements: a regional perspective. <i>Science</i> , 1986 , 234, 980-2	33.3	64
132	Exploring the Submarine Ring of Fire: Mariana Arc - Western Pacific. <i>Oceanography</i> , 2007 , 20, 68-79	2.3	63
131	How many vent fields? New estimates of vent field populations on ocean ridges from precise mapping of hydrothermal discharge locations. <i>Earth and Planetary Science Letters</i> , 2016 , 449, 186-196	5.3	62
130	Tracking the dispersal of hydrothermal plumes from the Juan de Fuca Ridge using suspended matter compositions. <i>Journal of Geophysical Research</i> , 1992 , 97, 3457-3468		61
129	Hydrothermal Plumes Over Spreading-Center Axes: Global Distributions and Geological Inferences. <i>Geophysical Monograph Series</i> , 2013 , 47-71	1.1	59
128	Venting of Acid-Sulfate Fluids in a High-Sulfidation Setting at NW Rota-1 Submarine Volcano on the Mariana Arc. <i>Economic Geology</i> , 2007 , 102, 1047-1061	4.3	56
127	Manganese and methane in hydrothermal plumes along the East Pacific Rise, 8°40' to 11°50'N. <i>Geochimica Et Cosmochimica Acta</i> , 1995 , 59, 4147-4165	5.5	55
126	In situ observations of dissolved iron and manganese in hydrothermal vent plumes, Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1994 , 99, 4969-4984		55
125	Larvae of benthic invertebrates in hydrothermal vent plumes over Juan de Fuca Ridge. <i>Marine Biology</i> , 1995 , 122, 585-596	2.5	52

124	Hydrothermal cooling of midocean ridge axes: Do measured and modeled heat fluxes agree?. <i>Earth and Planetary Science Letters</i> , 2007 , 263, 140-150	5.3	51
123	Upwelled spectral radiance distribution in relation to particulate matter in sea water. <i>Boundary-Layer Meteorology</i> , 1980 , 18, 287-298	3.4	51
122	Helium, heat, and the generation of hydrothermal event plumes at mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 1999 , 171, 343-350	5.3	49
121	Ridge-Hotspot Interactions: What Mid-Ocean Ridges Tell Us About Deep Earth Processes. <i>Oceanography</i> , 2007 , 20, 102-115	2.3	48
120	Heat flow through a basaltic outcrop on a sedimented young ridge flank. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5, n/a-n/a	3.6	48
119	An instrument system for the investigation of particle fluxes. <i>Continental Shelf Research</i> , 1983 , 1, 425-435.	4	48
118	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
117	Explorations of Mariana Arc volcanoes reveal new hydrothermal systems. <i>Eos</i> , 2004 , 85, 37	1.5	47
116	Thermal fluxes associated with the 1993 diking event on the CoAxial segment, Juan de Fuca Ridge: A model for the convective cooling of a dike. <i>Journal of Geophysical Research</i> , 1997 , 102, 24887-24902		46
115	Manganese and iron in hydrothermal plumes resulting from the 1996 Gorda Ridge Event. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998 , 45, 2683-2712	2.3	46
114	Chemical and physical diversity of hydrothermal plumes along the East Pacific Rise, 8°45'N to 11°50'N. <i>Geophysical Research Letters</i> , 1993 , 20, 2913-2916	4.9	45
113	Chemistry of hydrothermal plumes above submarine volcanoes of the Mariana Arc. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	41
112	Detection of hydrothermal plumes along the Southeast Indian Ridge near the Amsterdam-St. Paul Plateau. <i>Geophysical Research Letters</i> , 1998 , 25, 97-100	4.9	41
111	Extensive distribution of hydrothermal plumes along the superfast spreading East Pacific Rise, 13°30'N-18°40'S. <i>Journal of Geophysical Research</i> , 1996 , 101, 8685-8695		41
110	Hydrothermal activity on near-arc sections of back-arc ridges: Results from the Mariana Trough and Lau Basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a	3.6	40
109	Ascending and descending particle flux from hydrothermal plumes at Endeavour Segment, Juan de Fuca Ridge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001 , 48, 1093-1120	2.5	39
108	Patterns of event and chronic hydrothermal venting following a magmatic intrusion: new perspectives from the 1996 Gorda Ridge eruption. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998 , 45, 2599-2618	2.3	38
107	In situ observations of the onset of hydrothermal discharge during the 1998 Submarine Eruption of Axial Volcano, Juan de Fuca Ridge. <i>Geophysical Research Letters</i> , 1999 , 26, 3445-3448	4.9	37

106	Volcanic eruptions at East Pacific Rise near 9°50'N. <i>Eos</i> , 2007 , 88, 81	1.5	35
105	Hydrothermal venting along Earth's fastest spreading center: East Pacific Rise, 27.5°B2.3°. <i>Journal of Geophysical Research</i> , 2002 , 107, EPM 2-1-EPM 2-14		35
104	Processes affecting the distribution and transport of suspended matter in the northeast Gulf of Alaska. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1979 , 26, 445-464		35
103	Hydrothermal methane and manganese variation in the plume over the superfast-spreading southern East Pacific Rise. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 485-500	5.5	34
102	Sources and fluxes of hydrothermal heat, chemicals and biology within a segment of the Mid-Atlantic Ridge. <i>Earth and Planetary Science Letters</i> , 1999 , 171, 301-317	5.3	34
101	Abundant hydrothermal venting along melt-rich and melt-free ridge segments in the Lau back-arc basin. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	33
100	The rise and fall of the Coaxial hydrothermal site, 1993-1996. <i>Journal of Geophysical Research</i> , 1998 , 103, 9791-9806		33
99	Patterns of suspended particle distribution and transport in a large fjordlike estuary. <i>Journal of Geophysical Research</i> , 1984 , 89, 6553		33
98	Helium isotope, C/3He, and Ba-Nb-Ti signatures in the northern Lau Basin: Distinguishing arc, back-arc, and hotspot affinities. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 1133-1155	3.6	32
97	Multiple hydrothermal sources along the south Tonga arc and Valu Fa Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	32
96	Observations and sampling of an ongoing subsurface eruption of Kavachi volcano, Solomon Islands, May 2000. <i>Geology</i> , 2002 , 30, 975	5	32
95	Observations of manganese and iron at the CoAxial Seafloor Eruption Site, Juan de Fuca Ridge. <i>Geophysical Research Letters</i> , 1995 , 22, 151-154	4.9	32
94	Particle-size distributions within hydrothermal plumes over the Juan de Fuca Ridge. <i>Marine Geology</i> , 1988 , 78, 217-226	3.3	32
93	Bacterial and viral abundances in hydrothermal event plumes over northern Gorda Ridge. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998 , 45, 2739-2749	2.3	31
92	Vailulu'u undersea volcano: The New Samoa. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a	3.6	31
91	Hydrothermal plumes along segments of contrasting magmatic influence, 15°20'N-18°30'N, East Pacific Rise: Influence of axial faulting. <i>Geochemistry, Geophysics, Geosystems</i> , 2001 , 2, n/a-n/a	3.6	31
90	Variations in water-column δ He/heat ratios associated with the 1993 CoAxial event, Juan de Fuca Ridge. <i>Geophysical Research Letters</i> , 1995 , 22, 155-158	4.9	31
89	Distribution, composition, and transport of suspended particulate matter in the vicinity of Willapa submarine canyon, Washington. <i>Bulletin of the Geological Society of America</i> , 1976 , 87, 625	3.9	31

88	Eruption-fed particle plumes and volcanoclastic deposits at a submarine volcano: NW Rota-1, Mariana Arc. <i>Journal of Geophysical Research</i> , 2008 , 113,		30
87	Detection of an unusually large hydrothermal event plume above the slow-spreading Carlsberg Ridge: NW Indian Ocean. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	30
86	Tracking the evolution of a hydrothermal event plume with a RAFOS neutrally buoyant drifter. <i>Science</i> , 1998 , 280, 1052-5	33.3	30
85	Seasonal and vertical variations in the elemental composition of suspended and settling particulate matter in Puget Sound, Washington. <i>Estuarine, Coastal and Shelf Science</i> , 1986 , 22, 215-239	2.9	30
84	Relationships between hydrothermal activity and axial magma chamber distribution, depth, and melt content. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a	3.6	29
83	The Anatomy of a Buried Submarine Hydrothermal System, Clark Volcano, Kermadec Arc, New Zealand. <i>Economic Geology</i> , 2014 , 109, 2261-2292	4.3	28
82	Evidence for high-temperature hydrothermal venting on the Gorda Ridge, northeast Pacific Ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1987 , 34, 1461-1476		28
81	Geomicrobial transformation of manganese in Gorda Ridge event plumes. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998 , 45, 2713-2737	2.3	27
80	High-resolution surveys along the hot spot-affected Galapagos Spreading Center: 2. Influence of magma supply on volcanic morphology. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	27
79	Hydrothermal exploration of the Fonualei Rift and Spreading Center and the Northeast Lau Spreading Center. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	27
78	Temporal variations in the concentration and settling flux of carbon and phytoplankton pigments in a deep fjordlike estuary. <i>Estuarine, Coastal and Shelf Science</i> , 1985 , 21, 859-877	2.9	27
77	Chemistry of oceanic particulate matter and sediments: implications for bottom sediment resuspension. <i>Science</i> , 1978 , 200, 533-5	33.3	27
76	Exploring the ocean for hydrothermal venting: New techniques, new discoveries, new insights. <i>Ore Geology Reviews</i> , 2017 , 86, 55-69	3.2	25
75	Hydrothermal venting from the summit of a ridge axis Seamount: Axial Volcano, Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1990 , 95, 12843		25
74	The NOAA Vents Program 1983 to 2013: Thirty Years of Ocean Exploration and Research. <i>Oceanography</i> , 2015 , 28, 160-173	2.3	24
73	Hydrothermal Discharge During Submarine Eruptions: The Importance of Detection, Response, and New Technology. <i>Oceanography</i> , 2012 , 25, 128-141	2.3	24
72	Unique event plumes from a 2008 eruption on the Northeast Lau Spreading Center. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	24
71	Hydrothermal cooling along the Eastern Lau Spreading Center: No evidence for discharge beyond the neovolcanic zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2010 , 11, n/a-n/a	3.6	24

70	Hydrothermal plumes over the Carlsberg Ridge, Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	23
69	Submarine Magmatic-Hydrothermal Systems at the Monowai Volcanic Center, Kermadec Arc. <i>Economic Geology</i> , 2012 , 107, 1669-1694	4.3	22
68	Hydrothermal venting at Vailulu'u Seamount: The smoking end of the Samoan chain. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5, n/a-n/a	3.6	22
67	Excess ²²² Rn above the Cleft segment of the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1994 , 99, 5007-5015		22
66	High-Resolution Hydrothermal Mapping of Brothers Caldera, Kermadec Arc. <i>Economic Geology</i> , 2012 , 107, 1583-1593	4.3	21
65	Variations in hydrothermal methane and hydrogen concentrations following the 1998 eruption at Axial Volcano. <i>Geophysical Research Letters</i> , 1999 , 26, 3453-3456	4.9	21
64	Tectonic and magmatic control of hydrothermal activity along the slow-spreading Central Indian Ridge, 8°S-17°S. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 2011-2020	3.6	20
63	Active hydrothermal discharge on the submarine Aeolian Arc. <i>Journal of Geophysical Research</i> , 2011 , 116,		20
62	Chemical plumes from low-temperature hydrothermal venting on the eastern flank of the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 1997 , 102, 15433-15446		20
61	Significant discharge of CO ₂ from hydrothermalism associated with the submarine volcano of El Hierro Island. <i>Scientific Reports</i> , 2016 , 6, 25686	4.9	20
60	Eruptive modes and hiatus of volcanism at West Mata seamount, NE Lau basin: 1996-2012. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 4093-4115	3.6	19
59	High-resolution surveys along the hot spot-affected Galapagos Spreading Center: 1. Distribution of hydrothermal activity. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	19
58	Decay of hydrothermal output following the 1998 seafloor eruption at Axial Volcano: Observations and models. <i>Journal of Geophysical Research</i> , 2004 , 109,		19
57	Understanding a submarine eruption through time series hydrothermal plume sampling of dissolved and particulate constituents: West Mata, 2008-2012. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 4631-4650	3.6	18
56	High-resolution surveys along the hot spot-affected Galapagos Spreading Center: 3. Black smoker discoveries and the implications for geological controls on hydrothermal activity. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	18
55	Tectonic/volcanic segmentation and controls on hydrothermal venting along Earth's fastest seafloor spreading system, EPR 27°B2°S. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5, n/a-n/a	3.6	18
54	Interdisciplinary group explores seafloor eruption with remotely operated vehicle. <i>Eos</i> , 1999 , 80, 213-222.5		18
53	The water-column chemical signature after the 1998 Eruption of Axial Volcano. <i>Geophysical Research Letters</i> , 1999 , 26, 3645-3648	4.9	18

52	First hydrothermal discoveries on the Australian-Antarctic Ridge: Discharge sites, plume chemistry, and vent organisms. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 3061-3075	3.6	17
51	Chemically rich and diverse submarine hydrothermal plumes of the southern Kermadec volcanic arc (New Zealand). <i>Geological Society Special Publication</i> , 2003 , 219, 119-139	1.7	17
50	Evidence for iron and sulfur enrichments in hydrothermal plumes at Axial Volcano following the January-February 1998 eruption. <i>Geophysical Research Letters</i> , 1999 , 26, 3649-3652	4.9	17
49	Structure of two hydrothermal megaplumes. <i>Journal of Geophysical Research</i> , 1994 , 99, 20361		17
48	Long-term explosive degassing and debris flow activity at West Mata submarine volcano. <i>Geophysical Research Letters</i> , 2015 , 42, 1480-1487	4.9	16
47	Microbial biomass in the hydrothermal plumes associated with the 1998 Axial Volcano Eruption. <i>Geophysical Research Letters</i> , 1999 , 26, 3637-3640	4.9	16
46	Geological interpretation of volcanism and segmentation of the Mariana back-arc spreading center between 12.7°N and 18.3°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 2240-2274	3.6	15
45	Microbial carbon isotope fractionation to produce extraordinarily heavy methane in aging hydrothermal plumes over the southwestern Okinawa Trough. <i>Geochemical Journal</i> , 2010 , 44, 477-487	0.9	15
44	A numerical study of local convection in the benthic ocean induced by episodic hydrothermal discharges. <i>Journal of Geophysical Research</i> , 1994 , 99, 16065		15
43	Rapid dispersal of a hydrothermal plume by turbulent mixing. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010 , 57, 931-945	2.5	14
42	Methane dynamics in hydrothermal plumes over a superfast spreading center: East Pacific Rise, 27.5°N-2.3°S. <i>Journal of Geophysical Research</i> , 2005 , 110,		14
41	A Recent Volcanic Eruption Discovered on the Central Mariana Back-Arc Spreading Center. <i>Frontiers in Earth Science</i> , 2018 , 6,	3.5	14
40	Flux measurements of explosive degassing using a yearlong hydroacoustic record at an erupting submarine volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13,	3.6	13
39	Detection of and Response to Mid-Ocean Ridge Magmatic Events: Implications for the Subsurface Biosphere. <i>Geophysical Monograph Series</i> , 2004 , 227-243	1.1	13
38	Short-term variations in the distribution of hydrothermal plumes along a superfast spreading center, East Pacific Rise, 27°30'N-2°20'S. <i>Geochemistry, Geophysics, Geosystems</i> , 2004 , 5, n/a-n/a	3.6	13
37	Geological indexes of hydrothermal venting. <i>Journal of Geophysical Research</i> , 1996 , 101, 13741-13753		13
36	Long-term monitoring of hydrothermal heat flux using moored temperature sensors, cleft segment, Juan De Fuca Ridge. <i>Geophysical Research Letters</i> , 1993 , 20, 1855-1858	4.9	13
35	Widespread tectonic extension at the Central Indian Ridge between 8°S and 18°S. <i>Gondwana Research</i> , 2017 , 45, 163-179	5.1	12

34	Ocean currents at Axial Volcano, a northeastern Pacific seamount. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		12
33	Submarine hydrothermal venting on the southern Kermadec volcanic arc front (offshore New Zealand): location and extent of particle plume signatures. <i>Geological Society Special Publication</i> , 2003 , 219, 141-161	1.7	12
32	Anomalous helium and heat signatures associated with the 1998 Axial Volcano Event, Juan de Fuca Ridge. <i>Geophysical Research Letters</i> , 1999 , 26, 3449-3452	4.9	12
31	Particle transport processes in a small marine bay. <i>Journal of Geophysical Research</i> , 1983 , 88, 9661-9669		12
30	Molten Sulfur Lakes of Intraoceanic Arc Volcanoes. <i>Advances in Volcanology</i> , 2015 , 261-288	0	12
29	Hydrothermal plume mapping as a prospecting tool for seafloor sulfide deposits: a case study at the Zouyu-1 and Zouyu-2 hydrothermal fields in the southern Mid-Atlantic Ridge. <i>Marine Geophysical Researches</i> , 2017 , 38, 3-16	2.3	11
28	Characteristics of hydrothermal discharge following a magmatic intrusion. <i>Geological Society Special Publication</i> , 1995 , 87, 65-76	1.7	11
27	Regional setting of hydrothermal activity. <i>Geological Society Special Publication</i> , 1995 , 87, 3-15	1.7	11
26	Age estimate for the 1987 megaplume on the southern Juan de Fuca Ridge using excess radon and manganese partitioning. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1993 , 40, 1559-1567	2.5	11
25	Settling speeds of sewage sludge in seawater. <i>Environmental Science & Technology</i> , 1988 , 22, 1201-1203	10.3	10
24	Temporal and spatial variability of the bottom nepheloid layer over a deep-sea fan. <i>Marine Geology</i> , 1976 , 21, 67-79	3.3	10
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