Edward Baker

List of Publications by Year
in descending order

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179 papers	10,067 citations	28274 55 h-index	46799 89 g-index
181 all docs	181 docs citations	181 times ranked	4806 citing authors

#	Article	IF	Citations
1	Nimbus-7 Coastal Zone Color Scanner: System Description and Initial Imagery. Science, 1980, 210, 60-63.	12.6	342
2	The effect of particle size on the light attenuation coefficient of natural suspensions. Journal of Geophysical Research, 1984, 89, 8197-8203.	3.3	293
3	Cataclysmic hydrothermal venting on the Juan de Fuca Ridge. Nature, 1987, 329, 149-151.	27.8	261
4	Evolution of a Submarine Magmatic-Hydrothermal System: Brothers Volcano, Southern Kermadec Arc, New Zealand. Economic Geology, 2005, 100, 1097-1133.	3.8	250
5	Field assessment of sediment trap efficiency under varying flow conditions. Journal of Marine Research, 1988, 46, 573-592.	0.3	220
6	Discovery of abundant hydrothermal venting on the ultraslow-spreading Gakkel ridge in the Arctic Ocean. Nature, 2003, 421, 252-256.	27.8	206
7	Characteristics of hydrothermal plumes from two vent fields on the Juan de Fuca Ridge, northeast Pacific Ocean. Earth and Planetary Science Letters, 1987, 85, 59-73.	4.4	197
8	Episodic venting of hydrothermal fluids from the Juan de Fuca Ridge. Journal of Geophysical Research, 1989, 94, 9237-9250.	3.3	187
9	An authoritative global database for active submarine hydrothermal vent fields. Geochemistry, Geophysics, Geosystems, 2013, 14, 4892-4905.	2.5	181
10	Intra-oceanic subduction-related hydrothermal venting, Kermadec volcanic arc, New Zealand. Earth and Planetary Science Letters, 2001, 193, 359-369.	4.4	171
11	A Sea-Floor Spreading Event Captured by Seismometers. Science, 2006, 314, 1920-1922.	12.6	169
12	Active submarine eruption of boninite in the northeastern Lau Basin. Nature Geoscience, 2011, 4, 799-806.	12.9	163
13	Bacterial scavenging of Mn and Fe in a mid- to far-field hydrothermal particle plume. Nature, 1986, 322, 169-171.	27.8	159
14	Hydrothermal activity along the southwest Indian ridge. Nature, 1998, 395, 490-493.	27.8	146
15	Long-term eruptive activity at a submarine arc volcano. Nature, 2006, 441, 494-497.	27.8	141
16	Where are the undiscovered hydrothermal vents on oceanic spreading ridges?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 121, 202-212.	1.4	141
17	Variable 3He/heat ratios in submarine hydrothermal systems: evidence from two plumes over the Juan de Fuca ridge. Nature, 1989, 337, 161-164.	27.8	139
18	Submarine venting of liquid carbon dioxide on a Mariana Arc volcano. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	139

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19	The relationship between near-axis hydrothermal cooling and the spreading rate of mid-ocean ridges. Earth and Planetary Science Letters, 1996, 142, 137-145.	4.4	135
20	The effect of hydrothermal processes on midwater phosphorus distributions in the northeast Pacific. Earth and Planetary Science Letters, 1990, 96, 305-318.	4.4	119
21	Initial results of the rapid response to the 1993 CoAxial event: Relationships between hydrothermal and volcanic processes. Geophysical Research Letters, 1995, 22, 143-146.	4.0	115
22	Composition and sedimentation of hydrothermal plume particles from North Cleft segment, Juan de Fuca Ridge. Journal of Geophysical Research, 1994, 99, 4985-5006.	3.3	114
23	Volcanic Eruptions in the Deep Sea. Oceanography, 2012, 25, 142-157.	1.0	112
24	Discovery of ancient and active hydrothermal systems along the ultra-slow spreading Southwest Indian Ridge 10Â°-16Â°E. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-14.	2.5	110
25	Hydrothermal activity and volcano distribution along the Mariana arc. Journal of Geophysical Research, 2008, 113, .	3.3	107
26	Hydrothermal particle plumes over the southern Juan de Fuca Ridge. Nature, 1985, 316, 342-344.	27.8	102
27	Geology of the northern Cleft segment, Juan de Fuca Ridge: Recent lava flows, sea-floor spreading, and the formation of megaplumes. Geology, 1991, 19, 771.	4.4	101
28	Hydrothermal Plumes Over Spreading-Center Axes: Global Distributions and Geological Inferences. Geophysical Monograph Series, 0, , 47-71.	0.1	101
29	An in situ erosion rate for a fineâ€grained marine sediment. Journal of Geophysical Research, 1984, 89, 6543-6552.	3.3	99
30	Biological and physical processes in and around Astoria submarine Canyon, Oregon, USA. Journal of Marine Systems, 2004, 50, 21-37.	2.1	98
31	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. Earth and Planetary Science Letters, 2006, 245, 655-672.	4.4	97
32	Submarine hydrothermal activity along the midâ€Kermadec Arc, New Zealand: Largeâ€scale effects on venting. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	97
33	On the Global Distribution of Hydrothermal Vent Fields. Geophysical Monograph Series, 0, , 245-266.	0.1	97
34	Hydrothermal venting in magma deserts: The ultraslow-spreading Gakkel and Southwest Indian Ridges. Geochemistry, Geophysics, Geosystems, 2004, 5, .	2.5	93
35	Changes in submarine hydrothermal 3He/heat ratios as an indicator of magmatic/tectonic activity. Nature, 1990, 346, 556-558.	27.8	92
36	How many vent fields? New estimates of vent field populations on ocean ridges from precise mapping of hydrothermal discharge locations. Earth and Planetary Science Letters, 2016, 449, 186-196.	4.4	92

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37	Contemporary sedimentation processes in and around an active West Coast submarine canyon. Marine Geology, 1986, 71, 15-34.	2.1	85
38	Hydrothermal event plumes from the coaxial seafloor eruption site, Juan de Fuca Ridge. Geophysical Research Letters, 1995, 22, 147-150.	4.0	85
39	Vailulu'u Seamount, Samoa: Life and death on an active submarine volcano. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6448-6453.	7.1	81
40	A 6-year time series of hydrothermal plumes over the Cleft segment of the Juan de Fuca Ridge. Journal of Geophysical Research, 1994, 99, 4889-4904.	3.3	79
41	Temporal and spatial variability of hydrothermal manganese and iron at Cleft segment, Juan de Fuca Ridge. Journal of Geophysical Research, 1994, 99, 4905-4923.	3.3	77
42	A method for quantitatively estimating diffuse and discrete hydrothermal discharge. Earth and Planetary Science Letters, 1993, 118, 235-249.	4.4	76
43	Venting of Acid-Sulfate Fluids in a High-Sulfidation Setting at NW Rota-1 Submarine Volcano on the Mariana Arc. Economic Geology, 2007, 102, 1047-1061.	3.8	76
44	Distribution and composition of hydrothermal plume particles from the ASHES Vent Field at Axial Volcano, Juan de Fuca Ridge. Journal of Geophysical Research, 1990, 95, 12855-12873.	3.3	75
45	In situ chemical mapping of dissolved iron and manganese in hydrothermal plumes. Nature, 1991, 352, 325-328.	27.8	75
46	Hydrothermal venting and the apparent magmatic budget of the Juan de Fuca Ridge. Journal of Geophysical Research, 1992, 97, 3443-3456.	3.3	75
47	The Effect of Magmatic Activity on Hydrothermal Venting Along the Superfast-Spreading East Pacific Rise. Science, 1995, 269, 1092-1095.	12.6	75
48	Exploring the Submarine Ring of Fire: Mariana Arc - Western Pacific. Oceanography, 2007, 20, 68-79.	1.0	75
49	Tracking the dispersal of hydrothermal plumes from the Juan de Fuca Ridge using suspended matter compositions. Journal of Geophysical Research, 1992, 97, 3457-3468.	3.3	72
50	Hydrothermal Plume Measurements: A Regional Perspective. Science, 1986, 234, 980-982.	12.6	71
51	Hydrothermal cooling of midocean ridge axes: Do measured and modeled heat fluxes agree?. Earth and Planetary Science Letters, 2007, 263, 140-150.	4.4	64
52	Manganese and methane in hydrothermal plumes along the East Pacific Rise, 8Â°40â€² to 11Â°50â€²N. Geochimica Et Cosmochimica Acta, 1995, 59, 4147-4165.	3.9	62
53	Chemistry of hydrothermal plumes above submarine volcanoes of the Mariana Arc. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	62
54	In situ observations of dissolved iron and manganese in hydrothermal vent plumes, Juan de Fuca Ridge. Journal of Geophysical Research, 1994, 99, 4969-4984.	3.3	61

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55	Upwelled spectral radiance distribution in relation to particulate matter in sea water. Boundary-Layer Meteorology, 1980, 18, 287-298.	2.3	59
56	Helium, heat, and the generation of hydrothermal event plumes at mid-ocean ridges. Earth and Planetary Science Letters, 1999, 171, 343-350.	4.4	58
57	Heat flow through a basaltic outcrop on a sedimented young ridge flank. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	58
58	Explorations of Mariana Arc volcanoes reveal new hydrothermal systems. Eos, 2004, 85, 37.	0.1	58
59	Larvae of benthic invertebrates in hydrothermal vent plumes over Juan de Fuca Ridge. Marine Biology, 1995, 122, 585-596.	1.5	57
60	Manganese and iron in hydrothermal plumes resulting from the 1996 Gorda Ridge Event. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 2683-2712.	1.4	54
61	Methane seepage and its relation to slumping and gas hydrate at the Hikurangi margin, New Zealand. New Zealand Journal of Geology, and Geophysics, 2006, 49, 503-516.	1.8	54
62	Ridge-Hotspot Interactions: What Mid-Ocean Ridges Tell Us About Deep Earth Processes. Oceanography, 2007, 20, 102-115.	1.0	54
63	An instrument system for the investigation of particle fluxes. Continental Shelf Research, 1983, 1, 425-435.	1.8	50
64	Helium isotope, <scp>C</scp>/³<scp>H</scp>e, and <scp>B</scp>aâ€<scp>N</scp>bâ€<scp>T</scp>i signatures in the northern <scp>L</scp>au <scp>B</scp>asin: Distinguishing arc, backâ€arc, and hotspot affinities. Geochemistry, Geophysics, Geosystems, 2015, 16, 1133-1155.	2.5	50
65	Extensive distribution of hydrothermal plumes along the superfast spreading East Pacific Rise, 13Â°30â€²-18Â°40â€²S. Journal of Geophysical Research, 1996, 101, 8685-8695.	3.3	49
66	Chemical and physical diversity of hydrothermal plumes along the East Pacific Rise, 8Â°45â€²N to 11Â°50â€²N. Geophysical Research Letters, 1993, 20, 2913-2916.	4.0	48
67	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. Journal of Geophysical Research, 1997, 102, 24887-24902.	3.3	48
68	Ascending and descending particle flux from hydrothermal plumes at Endeavour Segment, Juan de Fuca Ridge. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 1093-1120.	1.4	48
69	Patterns of event and chronic hydrothermal venting following a magmatic intrusion: new perspectives from the 1996 Gorda Ridge eruption. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 2599-2618.	1.4	47
70	Hydrothermal activity on near-arc sections of back-arc ridges: Results from the Mariana Trough and Lau Basin. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	46
71	Multiple hydrothermal sources along the south Tonga arc and Valu Fa Ridge. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	46
72	Detection of hydrothermal plumes along the Southeast Indian Ridge near the Amsterdam-St. Paul Plateau. Geophysical Research Letters, 1998, 25, 97-100.	4.0	45

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73	Exploring the ocean for hydrothermal venting: New techniques, new discoveries, new insights. Ore Geology Reviews, 2017, 86, 55-69.	2.7	44
74	Processes affecting the distribution and transport of suspended matter in the northeast Gulf of Alaska. Deep-sea Research Part A, Oceanographic Research Papers, 1979, 26, 445-464.	1.5	42
75	Hydrothermal venting along Earth's fastest spreading center: East Pacific Rise, 27.5Â°-32.3Â°. Journal of Geophysical Research, 2002, 107, EPM 2-1-EPM 2-14.	3.3	42
76	Hydrothermal exploration of the Fonualei Rift and Spreading Center and the Northeast Lau Spreading Center. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	41
77	Variations in water-column Â³He/heat ratios associated with the 1993 CoAxial event, Juan de Fuca Ridge. Geophysical Research Letters, 1995, 22, 155-158.	4.0	40
78	In situ observations of the onset of hydrothermal discharge during the 1998 Submarine Eruption of Axial Volcano, Juan de Fuca Ridge. Geophysical Research Letters, 1999, 26, 3445-3448.	4.0	40
79	Abundant hydrothermal venting along melt-rich and melt-free ridge segments in the Lau back-arc basin. Geophysical Research Letters, 2006, 33, .	4.0	40
80	Vailulu'u undersea volcano: The New Samoa. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a.	2.5	39
81	Hydrothermal methane and manganese variation in the plume over the superfast-spreading southern East Pacific Rise. Geochimica Et Cosmochimica Acta, 1997, 61, 485-500.	3.9	38
82	High-Resolution Hydrothermal Mapping of Brothers Caldera, Kermadec Arc. Economic Geology, 2012, 107, 1583-1593.	3.8	38
83	The Anatomy of a Buried Submarine Hydrothermal System, Clark Volcano, Kermadec Arc, New Zealand. Economic Geology, 2014, 109, 2261-2292.	3.8	38
84	Volcanic Eruptions at East Pacific Rise Near 9Â°50â€²N. Eos, 2007, 88, 81.	0.1	37
85	Unique event plumes from a 2008 eruption on the Northeast Lau Spreading Center. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	37
86	Distribution, composition, and transport of suspended particulate matter in the vicinity of Willapa submarine canyon, Washington. Bulletin of the Geological Society of America, 1976, 87, 625.	3.3	36
87	The rise and fall of the Coaxial hydrothermal site, 1993-1996. Journal of Geophysical Research, 1998, 103, 9791-9806.	3.3	36
88	Sources and fluxes of hydrothermal heat, chemicals and biology within a segment of the Mid-Atlantic Ridge. Earth and Planetary Science Letters, 1999, 171, 301-317.	4.4	36
89	Detection of an unusually large hydrothermal event plume above the slow-spreading Carlsberg Ridge: NW Indian Ocean. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	36
90	Eruptionâ€fed particle plumes and volcaniclastic deposits at a submarine volcano: NW Rotaâ€1, Mariana Arc. Journal of Geophysical Research, 2008, 113, .	3.3	36

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91	Observations of manganese and iron at the CoAxial Seafloor Eruption Site, Juan de Fuca Ridge. Geophysical Research Letters, 1995, 22, 151-154.	4.0	35
92	Bacterial and viral abundances in hydrothermal event plumes over northern Gorda Ridge. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 2739-2749.	1.4	35
93	Tracking the Evolution of a Hydrothermal Event Plume with a RAFOS Neutrally Buoyant Drifter. Science, 1998, 280, 1052-1055.	12.6	35
94	Relationships between hydrothermal activity and axial magma chamber distribution, depth, and melt content. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	35
95	Significant discharge of CO2 from hydrothermalism associated with the submarine volcano of El Hierro Island. Scientific Reports, 2016, 6, 25686.	3.3	35
96	Evidence for high-temperature hydrothermal venting on the Gorda Ridge, northeast Pacific Ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1987, 34, 1461-1476.	1.5	34
97	Particle-size distributions within hydrothermal plumes over the Juan de Fuca Ridge. Marine Geology, 1988, 78, 217-226.	2.1	34
98	Observations and sampling of an ongoing subsurface eruption of Kavachi volcano, Solomon Islands, May 2000. Geology, 2002, 30, 975.	4.4	34
99	Chemically rich and diverse submarine hydrothermal plumes of the southern Kermadec volcanic arc (New Zealand). Geological Society Special Publication, 2003, 219, 119-139.	1.3	34
100	Patterns of suspended particle distribution and transport in a large fjordlike estuary. Journal of Geophysical Research, 1984, 89, 6553-6566.	3.3	33
101	Hydrothermal plumes along segments of contrasting magmatic influence, 15Â°20â€²-18Â°30â€²N, East Pacific Rise: Influence of axial faulting. Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	33
102	Active hydrothermal discharge on the submarine Aeolian Arc. Journal of Geophysical Research, 2011, 116, .	3.3	33
103	Submarine Magmatic-Hydrothermal Systems at the Monowai Volcanic Center, Kermadec Arc. Economic Geology, 2012, 107, 1669-1694.	3.8	33
104	Hydrothermal plumes over the Carlsberg Ridge, Indian Ocean. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	32
105	Seasonal and vertical variations in the elemental composition of suspended and settling particulate matter in Puget Sound, Washington. Estuarine, Coastal and Shelf Science, 1986, 22, 215-239.	2.1	31
106	Understanding a submarine eruption through time series hydrothermal plume sampling of dissolved and particulate constituents: <scp>W</scp>est <scp>M</scp>ata, 2008â€“2012. Geochemistry, Geophysics, Geosystems, 2014, 15, 4631-4650.	2.5	31
107	Highâ€resolution surveys along the hot spotâ€affected GalÃ¡pagos Spreading Center: 2. Influence of magma supply on volcanic morphology. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	30
108	Temporal variations in the concentration and settling flux of carbon and phytoplankton pigments in a deep fjordlike estuary. Estuarine, Coastal and Shelf Science, 1985, 21, 859-877.	2.1	29

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109	Hydrothermal venting from the summit of a ridge axis Seamount: Axial Volcano, Juan de Fuca Ridge. Journal of Geophysical Research, 1990, 95, 12843-12854.	3.3	29
110	Geomicrobial transformation of manganese in Gorda Ridge event plumes. Deep-Sea Research Part II: Topical Studies in Oceanography, 1998, 45, 2713-2737.	1.4	29
111	Hydrothermal Discharge During Submarine Eruptions: The Importance of Detection, Response, and New Technology. Oceanography, 2012, 25, 128-141.	1.0	29
112	Chemistry of Oceanic Particulate Matter and Sediments: Implications for Bottom Sediment Resuspension. Science, 1978, 200, 533-535.	12.6	28
113	Hydrothermal venting at Vailulu'u Seamount: The smoking end of the Samoan chain. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	28
114	Tectonic and magmatic control of hydrothermal activity along the slowâ€spreading Central Indian Ridge, 8Â°Sâ€“17Â°S. Geochemistry, Geophysics, Geosystems, 2014, 15, 2011-2020.	2.5	28
115	The NOAA Vents Program 1983 to 2013: Thirty Years of Ocean Exploration and Research. Oceanography, 2015, 28, 160-173.	1.0	27
116	Hydrothermal cooling along the Eastern Lau Spreading Center: No evidence for discharge beyond the neovolcanic zone. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	26
117	Eruptive modes and hiatus of volcanism at West Mata seamount, NE Lau basin: 1996-2012. Geochemistry, Geophysics, Geosystems, 2014, 15, 4093-4115.	2.5	26
118	Longâ€term explosive degassing and debris flow activity at West Mata submarine volcano. Geophysical Research Letters, 2015, 42, 1480-1487.	4.0	25
119	Geological interpretation of volcanism and segmentation of the <scp>M</scp>ariana backâ€arc spreading center between 12.7Â°<scp>N</scp> and 18.3Â°<scp>N</scp>. Geochemistry, Geophysics, Geosystems, 2017, 18, 2240-2274.	2.5	25
120	Chemical plumes from low-temperature hydrothermal venting on the eastern flank of the Juan de Fuca Ridge. Journal of Geophysical Research, 1997, 102, 15433-15446.	3.3	24
121	Excess222Rn above the Cleft segment of the Juan de Fuca Ridge. Journal of Geophysical Research, 1994, 99, 5007-5015.	3.3	23
122	Variations in hydrothermal methane and hydrogen concentrations following the 1998 eruption at Axial Volcano. Geophysical Research Letters, 1999, 26, 3453-3456.	4.0	23
123	Widespread tectonic extension at the Central Indian Ridge between 8Â°S and 18Â°S. Gondwana Research, 2017, 45, 163-179.	6.0	23
124	Highâ€resolution surveys along the hot spotâ€affected GÃ¡lapagos Spreading Center: 3. Black smoker discoveries and the implications for geological controls on hydrothermal activity. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	22
125	A Recent Volcanic Eruption Discovered on the Central Mariana Back-Arc Spreading Center. Frontiers in Earth Science, 2018, 6, .	1.8	22
126	The water-column chemical signature after the 1998 Eruption of Axial Volcano. Geophysical Research Letters, 1999, 26, 3645-3648.	4.0	21

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127	Submarine hydrothermal venting on the southern Kermadec volcanic arc front (offshore New) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2003, 219, 141-161.	1.3	21
128	Decay of hydrothermal output following the 1998 seafloor eruption at Axial Volcano: Observations and models. Journal of Geophysical Research, 2004, 109, .	3.3	21
129	Highâ€resolution surveys along the hot spotâ€“affected GalÃ¡pagos Spreading Center: 1. Distribution of hydrothermal activity. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	21
130	Geology, Hydrothermal Activity, and Sea-Floor Massive Sulfide Mineralization at the Rumble II West Mafic Caldera. Economic Geology, 2012, 107, 1649-1668.	3.8	21
131	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. Marine Geophysical Researches, 2017, 38, 3-16.	1.2	21
132	Molten Sulfur Lakes of Intraoceanic Arc Volcanoes. Advances in Volcanology, 2015, , 261-288.	1.1	21
133	Regional setting of hydrothermal activity. Geological Society Special Publication, 1995, 87, 3-15.	1.3	20
134	Interdisciplinary group explores seafloor eruption with remotely operated vehicle. Eos, 1999, 80, 213-222.	0.1	20
135	Evidence for iron and sulfur enrichments in hydrothermal plumes at Axial Volcano following the January-February 1998 eruption. Geophysical Research Letters, 1999, 26, 3649-3652.	4.0	20
136	Tectonic/volcanic segmentation and controls on hydrothermal venting along Earth's fastest seafloor spreading system, EPR 27Â°-32Â°S. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	20
137	Structure of two hydrothermal megaplumes. Journal of Geophysical Research, 1994, 99, 20361.	3.3	19
138	Microbial carbon isotope fractionation to produce extraordinarily heavy methane in aging hydrothermal plumes over the southwestern Okinawa Trough. Geochemical Journal, 2010, 44, 477-487.	1.0	19
139	Particle transport processes in a small marine bay. Journal of Geophysical Research, 1983, 88, 9661-9669.	3.3	18
140	First hydrothermal discoveries on the <scp>A</scp>ustralianâ€<scp>A</scp>ntarctic <scp>R</scp>idge: Discharge sites, plume chemistry, and vent organisms. Geochemistry, Geophysics, Geosystems, 2015, 16, 3061-3075.	2.5	18
141	The NE Lau Basin: Widespread and Abundant Hydrothermal Venting in the Back-Arc Region Behind a Superfast Subduction Zone. Frontiers in Marine Science, 2019, 6, .	2.5	18
142	A numerical study of local convection in the benthic ocean induced by episodic hydrothermal discharges. Journal of Geophysical Research, 1994, 99, 16065.	3.3	17
143	Rapid dispersal of a hydrothermal plume by turbulent mixing. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 931-945.	1.4	17
144	Flux measurements of explosive degassing using a yearlong hydroacoustic record at an erupting submarine volcano. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	17

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145	Longâ€term monitoring of hydrothermal heat flux using moored temperature sensors, cleft segment, Juan De Fuca Ridge. Geophysical Research Letters, 1993, 20, 1855-1858.	4.0	16
146	Microbial biomass in the hydrothermal plumes associated with the 1998 Axial Volcano Eruption. Geophysical Research Letters, 1999, 26, 3637-3640.	4.0	16
147	Short-term variations in the distribution of hydrothermal plumes along a superfast spreading center, East Pacific Rise, 27Â°30â€²-32Â°20â€²S. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	16
148	Comparison of the bottom nepheloid layer and late Holocene deposition on Nitinat Fan: Implications for lutite dispersal and deposition. Bulletin of the Geological Society of America, 1977, 88, 1586.	3.3	15
149	Characteristics of hydrothermal discharge following a magmatic intrusion. Geological Society Special Publication, 1995, 87, 65-76.	1.3	15
150	Detection of and response to mid-ocean ridge magmatic events: Implications for the subsurface biosphere. Geophysical Monograph Series, 2004, , 227-243.	0.1	15
151	Methane dynamics in hydrothermal plumes over a superfast spreading center: East Pacific Rise, 27.5Â°â€“32.3Â°S. Journal of Geophysical Research, 2005, 110, .	3.3	15
152	The Effect of Arc Proximity on Hydrothermal Activity Along Spreading Centers: New Evidence From the Mariana Back Arc (12.7Â°Nâ€“18.3Â°N). Geochemistry, Geophysics, Geosystems, 2017, 18, 4211-4228.	2.5	15
153	Anomalous helium and heat signatures associated with the 1998 Axial Volcano Event, Juan de Fuca Ridge. Geophysical Research Letters, 1999, 26, 3449-3452.	4.0	14
154	Ocean currents at Axial Volcano, a northeastern Pacific seamount. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	14
155	Age estimate for the 1987 megaplume on the southern Juan de Fuca Ridge using excess radon and manganese partitioning. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 1559-1567.	1.4	13
156	Geological indexes of hydrothermal venting. Journal of Geophysical Research, 1996, 101, 13741-13753.	3.3	13
157	Prospecting for Hydrothermal Vents Using Moored Current and Temperature Data: Axial Volcano on the Juan de Fuca Ridge, Northeast Pacific*. Journal of Physical Oceanography, 2001, 31, 827-838.	1.7	13
158	Chemical Fluxes From a Recently Erupted Shallow Submarine Volcano on the Mariana Arc. Geochemistry, Geophysics, Geosystems, 2018, 19, 1660-1673.	2.5	13
159	Settling speeds of sewage sludge in seawater. Environmental Science & Technology, 1988, 22, 1201-1207.	10.0	11
160	Correlated patterns in hydrothermal plume distribution and apparent magmatic budget along 2500 km of the Southeast Indian Ridge. Geochemistry, Geophysics, Geosystems, 2014, 15, 3198-3211.	2.5	11
161	Bathymetric influence on dissolved methane in hydrothermal plumes revealed by concentration and stable carbon isotope measurements at newly discovered venting sites on the Central Indian Ridge (11â€“13Â°S). Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 91, 17-26.	1.4	11
162	Temporal and spatial variability of the bottom nepheloid layer over a deep-sea fan. Marine Geology, 1976, 21, 67-79.	2.1	10

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