

# John E Lupton

## List of Publications by Citations

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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.

78  
papers

5,000  
citations

39  
h-index

70  
g-index

82  
ext. papers

5,635  
ext. citations

11.8  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
78	A Major Helium-3 Source at 15{degrees}S on the East Pacific Rise. <i>Science</i> , <b>1981</b> , 214, 13-8	33.3	296
77	Terrestrial Inert Gases: Isotope Tracer Studies and Clues to Primordial Components in the Mantle. <i>Annual Review of Earth and Planetary Sciences</i> , <b>1983</b> , 11, 371-414	15.3	286
76	Geochemistry of hydrothermal fluids from Axial Seamount hydrothermal emissions study vent field, Juan de Fuca Ridge: Subseafloor boiling and subsequent fluid-rock interaction. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 12895		264
75	Anomalous CH <sub>4</sub> and NH <sub>4</sub> <sup>+</sup> concentrations at an unsedimented mid-ocean-ridge hydrothermal system. <i>Nature</i> , <b>1993</b> , 364, 45-47	50.4	261
74	Gradients in the composition of hydrothermal fluids from the Endeavour segment vent field: Phase separation and brine loss. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 9561-9583		212
73	Entrainment and vertical transport of deep-ocean water by buoyant hydrothermal plumes. <i>Nature</i> , <b>1985</b> , 316, 621-623	50.4	204
72	Magmatic events can produce rapid changes in hydrothermal vent chemistry. <i>Nature</i> , <b>2003</b> , 422, 878-81	50.4	197
71	Evolution of a Submarine Magmatic-Hydrothermal System: Brothers Volcano, Southern Kermadec Arc, New Zealand. <i>Economic Geology</i> , <b>2005</b> , 100, 1097-1133	4.3	162
70	Helium isotope ratios in Yellowstone and Lassen Park volcanic gases. <i>Geophysical Research Letters</i> , <b>1978</b> , 5, 897-900	4.9	146
69	Intra-oceanic subduction-related hydrothermal venting, Kermadec volcanic arc, New Zealand. <i>Earth and Planetary Science Letters</i> , <b>2001</b> , 193, 359-369	5.3	136
68	Submarine hydrothermal activity and gold-rich mineralization at Brothers Volcano, Kermadec Arc, New Zealand. <i>Mineralium Deposita</i> , <b>2011</b> , 46, 541-584	4.8	135
67	Hydrothermal plumes in the Galapagos Rift. <i>Nature</i> , <b>1977</b> , 267, 600-603	50.4	122
66	Variable <sup>3</sup> He/heat ratios in submarine hydrothermal systems: evidence from two plumes over the Juan de Fuca ridge. <i>Nature</i> , <b>1989</b> , 337, 161-164	50.4	120
65	Active submarine eruption of boninite in the northeastern Lau Basin. <i>Nature Geoscience</i> , <b>2011</b> , 4, 799-806	6.3	115
64	Submarine venting of liquid carbon dioxide on a Mariana Arc volcano. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2006</b> , 7, n/a-n/a	3.6	113
63	Estimation of heat and chemical fluxes from a seafloor hydrothermal vent field using radon measurements. <i>Nature</i> , <b>1988</b> , 334, 604-607	50.4	104
62	Long-term eruptive activity at a submarine arc volcano. <i>Nature</i> , <b>2006</b> , 441, 494-7	50.4	101

61	Hydrothermal helium plumes in the Pacific Ocean. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 15853-15868	101
60	Hydrothermal activity and volcano distribution along the Mariana arc. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	84
59	Variability in the microbial communities and hydrothermal fluid chemistry at the newly discovered Mariner hydrothermal field, southern Lau Basin. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a	78
58	Mantle helium in hydrothermal plumes in the Galapagos Rift. <i>Nature</i> , <b>1977</b> , 267, 603-604	50.4 75
57	Mantle helium in the Red Sea brines. <i>Nature</i> , <b>1977</b> , 266, 244-246	50.4 73
56	Temporal and spatial variability of hydrothermal manganese and iron at Cleft segment, Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 4905-4923	71
55	The effect of magmatic activity on hydrothermal venting along the superfast-spreading East Pacific rise. <i>Science</i> , <b>1995</b> , 269, 1092-5	33.3 68
54	Submarine hydrothermal activity along the mid-Kermadec Arc, New Zealand: Large-scale effects on venting. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2007</b> , 8, n/a-n/a	3.6 67
53	Exploring the Submarine Ring of Fire: Mariana Arc - Western Pacific. <i>Oceanography</i> , <b>2007</b> , 20, 68-79	2.3 63
52	High SO <sub>2</sub> flux, sulfur accumulation, and gas fractionation at an erupting submarine volcano. <i>Geology</i> , <b>2011</b> , 39, 803-806	5 57
51	Venting of Acid-Sulfate Fluids in a High-Sulfidation Setting at NW Rota-1 Submarine Volcano on the Mariana Arc. <i>Economic Geology</i> , <b>2007</b> , 102, 1047-1061	4.3 56
50	Manganese and methane in hydrothermal plumes along the East Pacific Rise, 8°40' to 11°50'N. <i>Geochimica Et Cosmochimica Acta</i> , <b>1995</b> , 59, 4147-4165	5.5 55
49	Venting of a separate CO <sub>2</sub> -rich gas phase from submarine arc volcanoes: Examples from the Mariana and Tonga-Kermadec arcs. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,	53
48	CO <sub>2</sub> and <sup>3</sup> He in hydrothermal plumes: implications for mid-ocean ridge CO <sub>2</sub> flux. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 226, 449-464	5.3 52
47	Helium-3 in the Guaymas Basin: Evidence for injection of mantle volatiles in the Gulf of California. <i>Journal of Geophysical Research</i> , <b>1979</b> , 84, 7446-7452	51
46	Enriched H <sub>2</sub> , CH <sub>4</sub> , and <sup>3</sup> He concentrations in hydrothermal plumes associated with the 1996 Gorda Ridge eruptive event. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>1998</b> , 45, 2665-2682	2.3 50
45	Helium, heat, and the generation of hydrothermal event plumes at mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 171, 343-350	5.3 49
44	Explorations of Mariana Arc volcanoes reveal new hydrothermal systems. <i>Eos</i> , <b>2004</b> , 85, 37	1.5 47

43	Chemical and physical diversity of hydrothermal plumes along the East Pacific Rise, 8°45'N to 11°50'N. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 2913-2916	4.9	45
42	Chemistry of hydrothermal plumes above submarine volcanoes of the Mariana Arc. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2009</b> , 10, n/a-n/a	3.6	41
41	CO <sub>2</sub> degassing from hydrothermal vents at Kolumbo submarine volcano, Greece, and the accumulation of acidic crater water. <i>Geology</i> , <b>2013</b> , 41, 1035-1038	5	40
40	Variability in Microbial Communities in Black Smoker Chimneys at the NW Caldera Vent Field, Brothers Volcano, Kermadec Arc. <i>Geomicrobiology Journal</i> , <b>2009</b> , 26, 552-569	2.5	40
39	Helium isotope variations in seafloor basalts from the Northwest Lau Backarc Basin: Mapping the influence of the Samoan hotspot. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	39
38	Hydrothermal venting along Earth's fastest spreading center: East Pacific Rise, 27.5°B2.3°. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, EPM 2-1-EPM 2-14		35
37	A Far-Field Hydrothermal Plume from Loihi Seamount. <i>Science</i> , <b>1996</b> , 272, 976-9	33.3	34
36	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> , <b>2015</b> , 16, 1133-1155	3.6	32
35	Multiple hydrothermal sources along the south Tonga arc and Valu Fa Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2007</b> , 8, n/a-n/a	3.6	32
34	Water column hydrothermal plumes on the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 12829		32
33	Helium isotope variations in Juan De Fuca Ridge basalts. <i>Geophysical Research Letters</i> , <b>1993</b> , 20, 1851-1854	4.9	29
32	Evidence for high-temperature hydrothermal venting on the Gorda Ridge, northeast Pacific Ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , <b>1987</b> , 34, 1461-1476		28
31	Hydrothermal exploration of the Fonualei Rift and Spreading Center and the Northeast Lau Spreading Center. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2006</b> , 7, n/a-n/a	3.6	27
30	Mantle 3He distribution and deep circulation in the Indian Ocean. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		27
29	The atmospheric helium isotope ratio: Is it changing?. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	25
28	Unique event plumes from a 2008 eruption on the Northeast Lau Spreading Center. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	24
27	Submarine Magmatic-Hydrothermal Systems at the Monowai Volcanic Center, Kermadec Arc. <i>Economic Geology</i> , <b>2012</b> , 107, 1669-1694	4.3	22
26	Discovery of Hydrothermal Vent Fields on Alarcón Rise and in Southern Pescadero Basin, Gulf of California. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 4788-4819	3.6	22

25	Evidence for an extensive hydrothermal plume in the Tonga-Fiji region of the South Pacific. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2004</b> , 5, n/a-n/a	3.6	21
24	Variations in hydrothermal methane and hydrogen concentrations following the 1998 eruption at Axial Volcano. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3453-3456	4.9	21
23	Active hydrothermal discharge on the submarine Aeolian Arc. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		20
22	Boiling vapour-type fluids from the Nifonea vent field (New Hebrides Back-Arc, Vanuatu, SW Pacific): Geochemistry of an early-stage, post-eruptive hydrothermal system. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 207, 185-209	5.5	19
21	Understanding a submarine eruption through time series hydrothermal plume sampling of dissolved and particulate constituents: West Mata, 2008-2012. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 4631-4650	3.6	18
20	Mantle hotspot neon in basalts from the Northwest Lau Back-arc Basin. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	18
19	First hydrothermal discoveries on the Australian-Antarctic Ridge: Discharge sites, plume chemistry, and vent organisms. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2015</b> , 16, 3061-3075	3.6	17
18	Tracers confirm downward mixing of Tyrrhenian Sea upper waters associated with the Eastern Mediterranean Transient. <i>Ocean Science</i> , <b>2011</b> , 7, 91-99	4	17
17	Chemically rich and diverse submarine hydrothermal plumes of the southern Kermadec volcanic arc (New Zealand). <i>Geological Society Special Publication</i> , <b>2003</b> , 219, 119-139	1.7	17
16	Crustal helium in deep Pacific waters. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 14165-14177		17
15	Comment on A ten-year decrease in the atmospheric helium isotope ratio possibly caused by human activity by Y. Sano et al.. <i>Geophysical Research Letters</i> , <b>1991</b> , 18, 482-485	4.9	16
14	Changes in the atmospheric helium isotope ratio over the past 40 years. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 6271-6275	4.9	14
13	Subaerial and sublacustrine hydrothermal activity at Lake Rotomahana. <i>Journal of Volcanology and Geothermal Research</i> , <b>2016</b> , 314, 156-168	2.8	12
12	Iron isotope variability in ocean floor lavas and mantle sources in the Lau back-arc basin. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 241, 150-163	5.5	12
11	Evolution of the south Pacific helium plume over the past three decades. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 1810-1823	3.6	11
10	A comprehensive global oceanic dataset of helium isotope and tritium measurements. <i>Earth System Science Data</i> , <b>2019</b> , 11, 441-454	10.5	10
9	Mantle-Derived Helium and Multiple Methane Sources in Gas Bubbles of Cold Seeps Along the Cascadia Continental Margin. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 4476-4486	3.6	10
8	Hydrothermal venting and mineralization in the crater of Kick'em Jenny submarine volcano, Grenada (Lesser Antilles). <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 1000-1019	3.6	9

7	Hydrothermal activity in the Northwest Lau Backarc Basin: Evidence from water column measurements. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13,	3.6	9
6	Chemical Fluxes From a Recently Erupted Shallow Submarine Volcano on the Mariana Arc. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 1660-1673	3.6	6
5	Dissolved Gas and Metal Composition of Hydrothermal Plumes From a 2008 Submarine Eruption on the Northeast Lau Spreading Center. <i>Frontiers in Marine Science</i> , <b>2020</b> , 7,	4.5	2
4	Mantle degassing of primordial helium through submarine ridge flank basaltic basement. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 546, 116386	5.3	2
3	Hydrothermal Heat Enhances Abyssal Mixing in the Antarctic Circumpolar Current. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 812-821	4.9	1
2	Shallow Seafloor Gas emissions Near Heard and McDonald Islands on the Kerguelen Plateau, Southern Indian Ocean. <i>Earth and Space Science</i> , <b>2020</b> , 7, e2019EA000695	3.1	1
1	Patterns of Fine Ash Dispersal Related to Volcanic Activity at West Mata Volcano, NE Lau Basin. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	1