John E Lupton

List of Publications by Year in Descending Order

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	Dissolved Gas and Metal Composition of Hydrothermal Plumes From a 2008 Submarine Eruption on the Northeast Lau Spreading Center. *Frontiers in Marine Science*, **2020**, 7,	4.5	2
77	Shallow Seafloor Gas emissions Near Heard and McDonald Islands on the Kerguelen Plateau, Southern Indian Ocean. *Earth and Space Science*, **2020**, 7, e2019EA000695	3.1	1
76	Mantle degassing of primordial helium through submarine ridge flank basaltic basement. *Earth and Planetary Science Letters*, **2020**, 546, 116386	5.3	2
75	Hydrothermal Heat Enhances Abyssal Mixing in the Antarctic Circumpolar Current. *Geophysical Research Letters*, **2019**, 46, 812-821	4.9	1
74	A comprehensive global oceanic dataset of helium isotope and tritium measurements. *Earth System Science Data*, **2019**, 11, 441-454	10.5	10
73	Patterns of Fine Ash Dispersal Related to Volcanic Activity at West Mata Volcano, NE Lau Basin. *Frontiers in Marine Science*, **2019**, 6,	4.5	1
72	Chemical Fluxes From a Recently Erupted Shallow Submarine Volcano on the Mariana Arc. *Geochemistry, Geophysics, Geosystems*, **2018**, 19, 1660-1673	3.6	6
71	Discovery of Hydrothermal Vent Fields on Alarcón Rise and in Southern Pescadero Basin, Gulf of California. *Geochemistry, Geophysics, Geosystems*, **2018**, 19, 4788-4819	3.6	22
70	Mantle-Derived Helium and Multiple Methane Sources in Gas Bubbles of Cold Seeps Along the Cascadia Continental Margin. *Geochemistry, Geophysics, Geosystems*, **2018**, 19, 4476-4486	3.6	10
69	Iron isotope variability in ocean floor lavas and mantle sources in the Lau back-arc basin. *Geochimica Et Cosmochimica Acta*, **2018**, 241, 150-163	5.5	12
68	Evolution of the south Pacific helium plume over the past three decades. *Geochemistry, Geophysics, Geosystems*, **2017**, 18, 1810-1823	3.6	11
67	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. *Geochimica Et Cosmochimica Acta*, **2017**, 207, 185-209	5.5	19
66	Hydrothermal venting and mineralization in the crater of Kick'em Jenny submarine volcano, Grenada (Lesser Antilles). *Geochemistry, Geophysics, Geosystems*, **2016**, 17, 1000-1019	3.6	9
65	Subaerial and sublacustrine hydrothermal activity at Lake Rotomahana. *Journal of Volcanology and Geothermal Research*, **2016**, 314, 156-168	2.8	12
64	First hydrothermal discoveries on the Australian-Antarctic Ridge: Discharge sites, plume chemistry, and vent organisms. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 3061-3075	3.6	17
63	Helium isotope, C/3He, and Ba-Nb-Ti signatures in the northern Lau Basin: Distinguishing arc, back-arc, and hotspot affinities. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 1133-1155	3.6	32
62	Understanding a submarine eruption through time series hydrothermal plume sampling of dissolved and particulate constituents: West Mata, 2008–2012. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 4631-4650	3.6	18

61	CO2 degassing from hydrothermal vents at Kolumbo submarine volcano, Greece, and the accumulation of acidic crater water. *Geology*, **2013**, 41, 1035-1038	5	40
60	Changes in the atmospheric helium isotope ratio over the past 40 years. *Geophysical Research Letters*, **2013**, 40, 6271-6275	4.9	14
59	Hydrothermal activity in the Northwest Lau Backarc Basin: Evidence from water column measurements. *Geochemistry, Geophysics, Geosystems*, **2012**, 13,	3.6	9
58	Mantle hotspot neon in basalts from the Northwest Lau Back-arc Basin. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	18
57	Submarine Magmatic-Hydrothermal Systems at the Monowai Volcanic Center, Kermadec Arc. *Economic Geology*, **2012**, 107, 1669-1694	4.3	22
56	Active hydrothermal discharge on the submarine Aeolian Arc. *Journal of Geophysical Research*, **2011**, 116,		20
55	Unique event plumes from a 2008 eruption on the Northeast Lau Spreading Center. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	24
54	Tracers confirm downward mixing of Tyrrhenian Sea upper waters associated with the Eastern Mediterranean Transient. *Ocean Science*, **2011**, 7, 91-99	4	17
53	Submarine hydrothermal activity and gold-rich mineralization at Brothers Volcano, Kermadec Arc, New Zealand. *Mineralium Deposita*, **2011**, 46, 541-584	4.8	135
52	Active submarine eruption of boninite in the northeastern Lau Basin. *Nature Geoscience*, **2011**, 4, 799-806	8.3	115
51	High SO2 flux, sulfur accumulation, and gas fractionation at an erupting submarine volcano. *Geology*, **2011**, 39, 803-806	5	57
50	Variability in Microbial Communities in Black Smoker Chimneys at the NW Caldera Vent Field, Brothers Volcano, Kermadec Arc. *Geomicrobiology Journal*, **2009**, 26, 552-569	2.5	40
49	Chemistry of hydrothermal plumes above submarine volcanoes of the Mariana Arc. *Geochemistry, Geophysics, Geosystems*, **2009**, 10, n/a-n/a	3.6	41
48	Helium isotope variations in seafloor basalts from the Northwest Lau Backarc Basin: Mapping the influence of the Samoan hotspot. *Geophysical Research Letters*, **2009**, 36,	4.9	39
47	Venting of a separate CO2-rich gas phase from submarine arc volcanoes: Examples from the Mariana and Tonga-Kermadec arcs. *Journal of Geophysical Research*, **2008**, 113,		53
46	Hydrothermal activity and volcano distribution along the Mariana arc. *Journal of Geophysical Research*, **2008**, 113,		84
45	Variability in the microbial communities and hydrothermal fluid chemistry at the newly discovered Mariner hydrothermal field, southern Lau Basin. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		78
44	Submarine hydrothermal activity along the mid-Kermadec Arc, New Zealand: Large-scale effects on venting. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	67

43	Multiple hydrothermal sources along the south Tonga arc and Valu Fa Ridge. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	32
42	Exploring the Submarine Ring of Fire: Mariana Arc - Western Pacific. *Oceanography*, **2007**, 20, 68-79	2.3	63
41	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	4.3	56
40	Submarine venting of liquid carbon dioxide on a Mariana Arc volcano. *Geochemistry, Geophysics, Geosystems*, **2006**, 7, n/a-n/a	3.6	113
39	Hydrothermal exploration of the Fonualei Rift and Spreading Center and the Northeast Lau Spreading Center. *Geochemistry, Geophysics, Geosystems*, **2006**, 7, n/a-n/a	3.6	27
38	Long-term eruptive activity at a submarine arc volcano. *Nature*, **2006**, 441, 494-7	50.4	101
37	Evolution of a Submarine Magmatic-Hydrothermal System: Brothers Volcano, Southern Kermadec Arc, New Zealand. *Economic Geology*, **2005**, 100, 1097-1133	4.3	162
36	Evidence for an extensive hydrothermal plume in the Tonga-Fiji region of the South Pacific. *Geochemistry, Geophysics, Geosystems*, **2004**, 5, n/a-n/a	3.6	21
35	Mantle 3He distribution and deep circulation in the Indian Ocean. *Journal of Geophysical Research*, **2004**, 109,		27
34	The atmospheric helium isotope ratio: Is it changing?. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	25
33	CO2 and 3He in hydrothermal plumes: implications for mid-ocean ridge CO2 flux. *Earth and Planetary Science Letters*, **2004**, 226, 449-464	5.3	52
32	Explorations of Mariana Arc volcanoes reveal new hydrothermal systems. *Eos*, **2004**, 85, 37	1.5	47
31	Chemically rich and diverse submarine hydrothermal plumes of the southern Kermadec volcanic arc (New Zealand). *Geological Society Special Publication*, **2003**, 219, 119-139	1.7	17
30	Magmatic events can produce rapid changes in hydrothermal vent chemistry. *Nature*, **2003**, 422, 878-81	50.4	197
29	Hydrothermal venting along Earth's fastest spreading center: East Pacific Rise, 27.5°–32.3°. *Journal of Geophysical Research*, **2002**, 107, EPM 2-1-EPM 2-14		35
28	Crustal helium in deep Pacific waters. *Journal of Geophysical Research*, **2001**, 106, 14165-14177		17
27	Intra-oceanic subduction-related hydrothermal venting, Kermadec volcanic arc, New Zealand. *Earth and Planetary Science Letters*, **2001**, 193, 359-369	5.3	136
26	Helium, heat, and the generation of hydrothermal event plumes at mid-ocean ridges. *Earth and Planetary Science Letters*, **1999**, 171, 343-350	5.3	49

25	Variations in hydrothermal methane and hydrogen concentrations following the 1998 eruption at Axial Volcano. *Geophysical Research Letters*, **1999**, 26, 3453-3456	4.9	21
24	Enriched H2, CH4, and 3He concentrations in hydrothermal plumes associated with the 1996 Gorda Ridge eruptive event. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **1998**, 45, 2665-2682	2.3	50
23	Hydrothermal helium plumes in the Pacific Ocean. *Journal of Geophysical Research*, **1998**, 103, 15853-15868		101
22	A Far-Field Hydrothermal Plume from Loihi Seamount. *Science*, **1996**, 272, 976-9	33.3	34
21	Manganese and methane in hydrothermal plumes along the East Pacific Rise, 8°40? to 11°50?N. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 4147-4165	5.5	55
20	The effect of magmatic activity on hydrothermal venting along the superfast-spreading East pacific rise. *Science*, **1995**, 269, 1092-5	33.3	68
19	Temporal and spatial variability of hydrothermal manganese and iron at Cleft segment, Juan de Fuca Ridge. *Journal of Geophysical Research*, **1994**, 99, 4905-4923		71
18	Gradients in the composition of hydrothermal fluids from the Endeavour segment vent field: Phase separation and brine loss. *Journal of Geophysical Research*, **1994**, 99, 9561-9583		212
17	Chemical and physical diversity of hydrothermal plumes along the East Pacific Rise, 8°45?N to 11°50?N. *Geophysical Research Letters*, **1993**, 20, 2913-2916	4.9	45
16	Helium isotope variations in Juan De Fuca Ridge basalts. *Geophysical Research Letters*, **1993**, 20, 1851-1854	4.9	29
15	Anomalous CH4 and NH4+ concentrations at an unsedimented mid-ocean-ridge hydrothermal system. *Nature*, **1993**, 364, 45-47	50.4	261
14	Comment on A ten-year decrease in the atmospheric helium isotope ratio possibly caused by human activity by Y. Sano et al.. *Geophysical Research Letters*, **1991**, 18, 482-485	4.9	16
13	Geochemistry of hydrothermal fluids from Axial Seamount hydrothermal emissions study vent field, Juan de Fuca Ridge: Subseafloor boiling and subsequent fluid-rock interaction. *Journal of Geophysical Research*, **1990**, 95, 12895		264
12	Water column hydrothermal plumes on the Juan de Fuca Ridge. *Journal of Geophysical Research*, **1990**, 95, 12829		32
11	Variable 3He/heat ratios in submarine hydrothermal systems: evidence from two plumes over the Juan de Fuca ridge. *Nature*, **1989**, 337, 161-164	50.4	120
10	Estimation of heat and chemical fluxes from a seafloor hydrothermal vent field using radon measurements. *Nature*, **1988**, 334, 604-607	50.4	104
9	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		28
8	Entrainment and vertical transport of deep-ocean water by buoyant hydrothermal plumes. *Nature*, **1985**, 316, 621-623	50.4	204

7	Terrestrial Inert Gases: Isotope Tracer Studies and Clues to Primordial Components in the Mantle. *Annual Review of Earth and Planetary Sciences*, **1983**, 11, 371-414	15.3	286
6	A Major Helium-3 Source at 15{degrees}S on the East Pacific Rise. *Science*, **1981**, 214, 13-8	33.3	296
5	Helium-3 in the Guaymas Basin: Evidence for injection of mantle volatiles in the Gulf of California. *Journal of Geophysical Research*, **1979**, 84, 7446-7452		51
4	Helium isotope ratios in Yellowstone and Lassen Park volcanic gases. *Geophysical Research Letters*, **1978**, 5, 897-900	4.9	146
3	Mantle helium in hydrothermal plumes in the Galapagos Rift. *Nature*, **1977**, 267, 603-604	50.4	75
2	Mantle helium in the Red Sea brines. *Nature*, **1977**, 266, 244-246	50.4	73
1	Hydrothermal plumes in the Galapagos Rift. *Nature*, **1977**, 267, 600-603	50.4	122