John C Lassiter

List of Publications by Year
in descending order

42 papers	2,633 citations	218677 26 h-index	289244 40 g-index
45 all docs	45 docs citations	45 times ranked	1778 citing authors

#	Article	IF	Citations
1	The Systematics of Chlorine, Lithium, and Boron andÎ´³⁷Cl,Î´⁷Li, and Î´¹¹B in the Hydrothermal System of the Yellowstone Plateau Volcanic Field. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009589.	2.5	14
2	Temperature-dependent variations in mineralogy, major element chemistry and the stable isotopes of boron, lithium and chlorine resulting from hydration of rhyolite: Constraints from hydrothermal experiments at 150 to 350â€Â°C and 25â€MPa. Geochimica Et Cosmochimica Acta, 2019, 261, 269-287.	3.9	17
3	The role of the upper plate in controlling fluid-mobile element (Cl, Li, B) cycling through subduction zones: Hikurangi forearc, New Zealand. , 2019, 15, 642-658.		12
4	On the (mis)behavior of water in the mantle: Controls on nominally anhydrous mineral water content in mantle peridotites. Earth and Planetary Science Letters, 2018, 499, 219-229.	4.4	16
5	On the equilibration timescales of isolated trace phases in mantle peridotites: Implications for the interpretation of grain-scale isotope heterogeneity in peridotitic sulfides. Earth and Planetary Science Letters, 2018, 498, 427-435.	4.4	4
6	Contrasting meteoritic signatures within the Clearwater East and Clearwater West impact structures: The view from osmium isotopes. Geochimica Et Cosmochimica Acta, 2018, 235, 262-284.	3.9	2
7	Mantle melt production during the 1.4 Ga Laurentian magmatic event: Isotopic constraints from Colorado Plateau mantle xenoliths. Geology, 2017, 45, 519-522.	4.4	16
8	Origin of temporal compositional trends in monogenetic vent eruptions: Insights from the crystal cargo in the Papoose Canyon sequence, Big Pine Volcanic Field, CA. Earth and Planetary Science Letters, 2017, 457, 227-237.	4.4	9
9	The role of serpentinite-derived fluids in metasomatism of the Colorado Plateau (USA) lithospheric mantle. Geology, 2017, 45, 1103-1106.	4.4	10
10	186Os/188Os variations in upper mantle peridotites: Constraints on the Pt/Os ratio of primitive upper mantle, and implications for late veneer accretion and mantle mixing timescales. Chemical Geology, 2016, 442, 11-22.	3.3	14
11	Geochemical investigation of Gabbroic Xenoliths from Hualalai Volcano: Implications for lower oceanic crust accretion and Hualalai Volcano magma storage system. Earth and Planetary Science Letters, 2016, 442, 162-172.	4.4	7
12	Trace element partitioning and Luâ€“Hf isotope systematics in spinel peridotites from the Rio Grande Rift and Colorado Plateau: Towards improved age assessment of clinopyroxene Lu/Hfâ€“176Hf/177Hf in SCLM peridotite. Chemical Geology, 2015, 413, 146-158.	3.3	18
13	Basalt volatile fluctuations during continental rifting: An example from the <scp>R</scp>io <scp>G</scp>rande <scp>R</scp>ift, USA. Geochemistry, Geophysics, Geosystems, 2015, 16, 1254-1273.	2.5	17
14	High precision Os isotopic measurement using N-TIMS: Quantification of various sources of error in 186Os/188Os measurements. Chemical Geology, 2015, 396, 112-123.	3.3	20
15	Intermittent mixing processes occurring before Plinian eruptions of Popocatepetl volcano, Mexico: insights from texturalâ€“compositional variations in plagioclase and Srâ€“Ndâ€“Pb isotopes. Contributions To Mineralogy and Petrology, 2014, 167, 1.	3.1	29
16	Constraints from Os-isotope variations on the origin of Lena Trough abyssal peridotites and implications for the composition and evolution of the depleted upper mantle. Earth and Planetary Science Letters, 2014, 403, 178-187.	4.4	71
17	Isotopically ultradepleted domains in the convecting upper mantle: Implications for MORB petrogenesis. Geology, 2014, 42, 203-206.	4.4	60
18	40Ar/39Ar dating, geochemistry, and isotopic analyses of the quaternary Chichinautzin volcanic field, south of Mexico City: implications for timing, eruption rate, and distribution of volcanism. Bulletin of Volcanology, 2013, 75, 1.	3.0	54

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19	Evidence from mantle xenoliths for lithosphere removal beneath the central Rio Grande Rift. Earth and Planetary Science Letters, 2012, 355-356, 82-93.	4.4	42
20	Chlorine enrichment in central Rio Grande Rift basaltic melt inclusions: Evidence for subduction modification of the lithospheric mantle. Geology, 2009, 37, 439-442.	4.4	28
21	New constraints on the HIMU mantle from neon and helium isotopic compositions of basalts from the Cookâ€“Austral Islands. Earth and Planetary Science Letters, 2009, 277, 253-261.	4.4	68
22	Lithium isotope systematics of lavas from the Cookâ€“Austral Islands: Constraints on the origin of HIMU mantle. Earth and Planetary Science Letters, 2009, 277, 433-442.	4.4	67
23	PGE and Os-isotopic variations in lavas from Kohala Volcano, Hawaii: Constraints on PGE behavior and melt/crust interaction. Chemical Geology, 2008, 250, 16-28.	3.3	44
24	Ancient recycled mantle lithosphere in the Hawaiian plume: Osmiumâ€“Hafnium isotopic evidence from peridotite mantle xenoliths. Earth and Planetary Science Letters, 2007, 257, 259-273.	4.4	137
25	Constraints on the coupled thermal evolution of the Earth's core and mantle, the age of the inner core, and the origin of the 186Os/188Os â€œcore signalâ€•in plume-derived lavas. Earth and Planetary Science Letters, 2006, 250, 306-317.	4.4	32
26	Geochemical structure of the Hawaiian plume: Sr, Nd, and Os isotopes in the 2.8 km HSDP-2 section of Mauna Kea volcano. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	93
27	The Role of Continental Crust and Lithospheric Mantle in the Genesis of Cameroon Volcanic Line Lavas: Constraints from Isotopic Variations in Lavas and Megacrysts from the Biu and Jos Plateaux. Journal of Petrology, 2004, 46, 169-190.	2.8	86
28	Origin of megacrysts in volcanic rocks of the Cameroon volcanic chain ? constraints on magma genesis and crustal contamination. Contributions To Mineralogy and Petrology, 2004, 147, 129-144.	3.1	57
29	Role of recycled oceanic crust in the potassium and argon budget of the Earth: Toward a resolution of the â€œmissing argonâ€•problem. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	60
30	Geochemistry of Kauai shield-stage lavas: Implications for the chemical evolution of the Hawaiian plume. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	71
31	Isotope and trace element variations in lavas from Raivavae and Rapa, Cookâ€“Austral islands: constraints on the nature of HIMU- and EM-mantle and the origin of mid-plate volcanism in French Polynesia. Chemical Geology, 2003, 202, 115-138.	3.3	106
32	Rhenium volatility in subaerial lavas: constraints from subaerial and submarine portions of the HSDP-2 Mauna Kea drillcore. Earth and Planetary Science Letters, 2003, 214, 311-325.	4.4	66
33	Chlorineâ€“potassium variations in melt inclusions from Raivavae and Rapa, Austral Islands: constraints on chlorine recycling in the mantle and evidence for brine-induced melting of oceanic crust. Earth and Planetary Science Letters, 2002, 202, 525-540.	4.4	104
34	Osmium abundance and isotope variations in mafic Mexican volcanic rocks: Evidence for crustal contamination and constraints on the geochemical behavior of osmium during partial melting and fractional crystallization. Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	59
35	Generation of Hawaiian post-erosional lavas by melting of a mixed lherzolite/pyroxenite source. Earth and Planetary Science Letters, 2000, 178, 269-284.	4.4	134
36	GEOPHYSICS:Hawaiian Plume Dynamics. Science, 1999, 285, 846-847.	12.6	0

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37	Osmium-isotope variations in Hawaiian lavas: evidence for recycled oceanic lithosphere in the Hawaiian plume. Earth and Planetary Science Letters, 1998, 164, 483-496.	4.4	343
38	Helium isotopic evolution of Mauna Kea Volcano: First results from the 1-km drill core. Journal of Geophysical Research, 1996, 101, 11781-11791.	3.3	116
39	Osmium isotope systematics of drilled lavas from Mauna Loa, Hawaii. Journal of Geophysical Research, 1996, 101, 11793-11806.	3.3	182
40	Isotopic evolution of Mauna Kea volcano: Results from the initial phase of the Hawaii Scientific Drilling Project. Journal of Geophysical Research, 1996, 101, 11769-11780.	3.3	127
41	Geochemistry of the Wrangellia Flood Basalt Province: Implications for the Role of Continental and Oceanic Lithosphere in Flood Basalt Genesis. Journal of Petrology, 1995, 36, 983-1009.	2.8	118
42	Plume/Lithosphere Interaction in the Generation of Continental and Oceanic Flood Basalts: Chemical and Isotopic Constraints. Geophysical Monograph Series, 0, , 335-355.	0.1	102