

Veronique Le Roux

List of Publications by Year in descending order

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49
papers

3,316
citations

172207

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docs citations

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times ranked

2758
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper Systematics in Arc Magmas and Implications for Crust-Mantle Differentiation. <i>Science</i> , 2012, 336, 64-68.	6.0	480
2	The Lherz spinel lherzolite: Refertilized rather than pristine mantle. <i>Earth and Planetary Science Letters</i> , 2007, 259, 599-612.	1.8	305
3	Zn/Fe systematics in mafic and ultramafic systems: Implications for detecting major element heterogeneities in the Earth's mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2779-2796.	1.6	249
4	The redox state of arc mantle using Zn/Fe systematics. <i>Nature</i> , 2010, 468, 681-685.	13.7	232
5	Mineralogical heterogeneities in the Earth's mantle: Constraints from Mn, Co, Ni and Zn partitioning during partial melting. <i>Earth and Planetary Science Letters</i> , 2011, 307, 395-408.	1.8	194
6	Chronology of Taylor Glacier Advances in Arena Valley, Antarctica, Using in Situ Cosmogenic ³ He and ¹⁰ Be. <i>Quaternary Research</i> , 1993, 39, 11-23.	1.0	126
7	Primitive neon from the center of the Galápagos hotspot. <i>Earth and Planetary Science Letters</i> , 2009, 286, 23-34.	1.8	107
8	Helium isotope geochemistry of mid-ocean ridge basalts from the South Atlantic. <i>Earth and Planetary Science Letters</i> , 1992, 110, 133-147.	1.8	101
9	Rapid helium isotopic variability in Mauna Kea shield lavas from the Hawaiian Scientific Drilling Project. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	96
10	Mapping out the conduit of the Iceland mantle plume with helium isotopes. <i>Earth and Planetary Science Letters</i> , 2000, 176, 45-55.	1.8	95
11	Arc-like magmas generated by mantle-peridotite interaction in the mantle wedge. <i>Nature Communications</i> , 2018, 9, 2864.	5.8	90
12	Feedback between melt percolation and deformation in an exhumed lithosphere-aesthenosphere boundary. <i>Earth and Planetary Science Letters</i> , 2008, 274, 401-413.	1.8	88
13	Generation of alkaline magmas in subduction zones by partial melting of mantle diapirs: An experimental study. <i>Geology</i> , 2018, 46, 343-346.	2.0	77
14	Isotopic decoupling during porous melt flow: A case-study in the Lherz peridotite. <i>Earth and Planetary Science Letters</i> , 2009, 279, 76-85.	1.8	72
15	Submarine Fernandina: Magmatism at the leading edge of the Galápagos hot spot. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	66
16	Low ³ He/ ⁴ He ratios in basalt glasses from the western Southwest Indian Ridge (10°-24°E). <i>Earth and Planetary Science Letters</i> , 2003, 206, 509-528.	1.8	59
17	Correlated helium, neon, and melt production on the super-fast spreading East Pacific Rise near 17°S. <i>Earth and Planetary Science Letters</i> , 2005, 232, 125-142.	1.8	59
18	Isotope Geochemistry of the Oceanic Mantle Near the Bouvet Triple Junction. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 841-852.	1.6	56

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19	Barium isotope evidence for pervasive sediment recycling in the upper mantle. <i>Science Advances</i> , 2018, 4, eaas8675.	4.7	55
20	Isotopic evolution of Mauna Loa Volcano: A view from the submarine southwest rift zone. <i>Geophysical Monograph Series</i> , 1995, , 289-306.	0.1	54
21	Genovesa Submarine Ridge: A manifestation of plume-ridge interaction in the northern Galpagos Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	1.0	48
22	Recommended mineral-melt partition coefficients for FRTEs (Cu), Ga, and Ge during mantle melting. <i>American Mineralogist</i> , 2015, 100, 2533-2544.	0.9	45
23	Tracking flux melting and melt percolation in supra-subduction peridotites (Josephine ophiolite, USA). <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	1.2	42
24	Estimating the carbon content of the deep mantle with Icelandic melt inclusions. <i>Earth and Planetary Science Letters</i> , 2019, 523, 115699.	1.8	40
25	Construction of the Galpagos platform by large submarine volcanic terraces. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	37
26	Fluorine and chlorine in mantle minerals and the halogen budget of the Earth's mantle. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	1.2	33
27	Quantifying the volume increase and chemical exchange during serpentinization. <i>Geology</i> , 2020, 48, 552-556.	2.0	33
28	Accretion of interplanetary dust in polar ice. <i>Geophysical Research Letters</i> , 2000, 27, 3145-3148.	1.5	31
29	Effects of deglaciation on the petrology and eruptive history of the Western Volcanic Zone, Iceland. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	24
30	The emergence of a Galpagos shield volcano, Roca Redonda. <i>Contributions To Mineralogy and Petrology</i> , 1998, 133, 136-148.	1.2	22
31	Age, geology, geophysics, and geochemistry of Mahukona Volcano, Hawai'i. <i>Bulletin of Volcanology</i> , 2012, 74, 1445-1463.	1.1	21
32	Deep-mantle krypton reveals Earth's early accretion of carbonaceous matter. <i>Nature</i> , 2021, 600, 462-467.	13.7	19
33	Magma ascent and lava flow emplacement rates during the 2011 Axial Seamount eruption based on CO ₂ degassing. <i>Earth and Planetary Science Letters</i> , 2018, 494, 32-41.	1.8	18
34	New constraints on mantle carbon from Mid-Atlantic Ridge popping rocks. <i>Earth and Planetary Science Letters</i> , 2019, 511, 67-75.	1.8	17
35	Hot and Heterogenous High ³ He/ ⁴ He Components: New Constraints From Proto-Iceland Plume Lavas From Baffin Island. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5939-5967.	1.0	15
36	The distribution and abundance of halogens in eclogites: An in situ SIMS perspective of the Raspas Complex (Ecuador). <i>American Mineralogist</i> , 2020, 105, 307-318.	0.9	15

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37	Low- ³ He/ ⁴ He sublithospheric mantle source for the most magnesian magmas of the Karoo large igneous province. <i>Earth and Planetary Science Letters</i> , 2015, 426, 305-315.	1.8	14
38	Noble gas systematics in new popping rocks from the Mid-Atlantic Ridge (14°N): Evidence for small-scale upper mantle heterogeneities. <i>Earth and Planetary Science Letters</i> , 2019, 519, 70-82.	1.8	13
39	High water content of arc magmas recorded in cumulates from subduction zone lower crust. <i>Nature Geoscience</i> , 2022, 15, 501-508.	5.4	13
40	Dating layered websterite formation in the lithospheric mantle. <i>Earth and Planetary Science Letters</i> , 2016, 454, 103-112.	1.8	12
41	Experimental evidence for melt partitioning between olivine and orthopyroxene in partially molten harzburgite. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5776-5793.	1.4	11
42	Ophiolitic Pyroxenites Record Boninite Percolation in Subduction Zone Mantle. <i>Minerals (Basel)</i> , 2021, 11, 1050.	0.8	10
43	RADIOCARBON IN DISSOLVED ORGANIC CARBON BY LIV OXIDATION: PROCEDURES AND BLANK CHARACTERIZATION AT NOSAMS. <i>Radiocarbon</i> , 2021, 63, 357-374.	0.8	9
44	Causes of Oceanic Crustal Thickness Oscillations Along a Mid-Atlantic Ridge Flow Line. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 6123-6139.	1.0	6
45	Postmelting hydrogen enrichment in the oceanic lithosphere. <i>Science Advances</i> , 2021, 7, .	4.7	6
46	Quantitative vesicle analyses and total CO ₂ reconstruction in mid-ocean ridge basalts. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 407, 107109.	0.8	5
47	A FRAMEWORK FOR TRANSDISCIPLINARY RADIOCARBON RESEARCH: USE OF NATURAL-LEVEL AND ELEVATED-LEVEL ¹⁴ C IN ANTARCTIC FIELD RESEARCH. <i>Radiocarbon</i> , 0, , 1-14.	0.8	3
48	RADIOCARBON IN DISSOLVED ORGANIC CARBON BY LIV OXIDATION: AN UPDATE OF PROCEDURES AND BLANK CHARACTERIZATION AT NOSAMS. <i>Radiocarbon</i> , 0, , 1-5.	0.8	2
49	Thallium isotope compositions of subduction-zone fluids: Insights from ultra-high pressure eclogites and veins in the Dabie terrane, eastern China. <i>Chemical Geology</i> , 2022, 599, 120843.	1.4	2