

Veronique Le Roux

List of Publications by Year in descending order

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	RADIOCARBON IN DISSOLVED ORGANIC CARBON BY LIV OXIDATION: PROCEDURES AND BLANK CHARACTERIZATION AT NOSAMS. <i>Radiocarbon</i> , 2021, 63, 357-374.	0.8	9
4	Postmelting hydrogen enrichment in the oceanic lithosphere. <i>Science Advances</i> , 2021, 7, .	4.7	6
5	Deep-mantle krypton reveals Earth's early accretion of carbonaceous matter. <i>Nature</i> , 2021, 600, 462-467.	13.7	19
6	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
7	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
8	Quantifying the volume increase and chemical exchange during serpentinization. <i>Geology</i> , 2020, 48, 552-556.	2.0	33
9	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
10	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
11	Ophiolitic Pyroxenites Record Boninite Percolation in Subduction Zone Mantle. <i>Minerals (Basel)</i> , 2019, 9, 1078.	0.8	10
12	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
13	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
14	Causes of Oceanic Crustal Thickness Oscillations Along a 74°N Mid-Atlantic Ridge Flow Line. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 6123-6139.	1.0	6
15	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
16	Arc-like magmas generated by mantle-peridotite interaction in the mantle wedge. <i>Nature Communications</i> , 2018, 9, 2864.	5.8	90
17	Barium isotope evidence for pervasive sediment recycling in the upper mantle. <i>Science Advances</i> , 2018, 4, eaas8675.	4.7	55
18	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

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19	Fluorine and chlorine in mantle minerals and the halogen budget of the Earth's mantle. Contributions To Mineralogy and Petrology, 2017, 172, 1.	1.2	33
20	Dating layered websterite formation in the lithospheric mantle. Earth and Planetary Science Letters, 2016, 454, 103-112.	1.8	12
21	Experimental evidence for melt partitioning between olivine and orthopyroxene in partially molten harzburgite. Journal of Geophysical Research: Solid Earth, 2016, 121, 5776-5793.	1.4	11
22	Effects of deglaciation on the petrology and eruptive history of the Western Volcanic Zone, Iceland. Bulletin of Volcanology, 2015, 77, 1.	1.1	24
23	Low- ³ He/ ⁴ He sublithospheric mantle source for the most magnesian magmas of the Karoo large igneous province. Earth and Planetary Science Letters, 2015, 426, 305-315.	1.8	14
24	Recommended mineral-melt partition coefficients for FRTEs (Cu), Ga, and Ge during mantle melting. American Mineralogist, 2015, 100, 2533-2544.	0.9	45
25	Tracking flux melting and melt percolation in supra-subduction peridotites (Josephine ophiolite, USA). Contributions To Mineralogy and Petrology, 2014, 168, 1.	1.2	42
26	Copper Systematics in Arc Magmas and Implications for Crust-Mantle Differentiation. Science, 2012, 336, 64-68.	6.0	480
27	Age, geology, geophysics, and geochemistry of Mahukona Volcano, Hawai'i. Bulletin of Volcanology, 2012, 74, 1445-1463.	1.1	21
28	Mineralogical heterogeneities in the Earth's mantle: Constraints from Mn, Co, Ni and Zn partitioning during partial melting. Earth and Planetary Science Letters, 2011, 307, 395-408.	1.8	194
29	The redox state of arc mantle using Zn/Fe systematics. Nature, 2010, 468, 681-685.	13.7	232
30	Zn/Fe systematics in mafic and ultramafic systems: Implications for detecting major element heterogeneities in the Earth's mantle. Geochimica Et Cosmochimica Acta, 2010, 74, 2779-2796.	1.6	249
31	Isotopic decoupling during porous melt flow: A case-study in the Lherz peridotite. Earth and Planetary Science Letters, 2009, 279, 76-85.	1.8	72
32	Primitive neon from the center of the Galápagos hotspot. Earth and Planetary Science Letters, 2009, 286, 23-34.	1.8	107
33	Construction of the Galápagos platform by large submarine volcanic terraces. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	37
34	Feedback between melt percolation and deformation in an exhumed lithosphere-aesthenosphere boundary. Earth and Planetary Science Letters, 2008, 274, 401-413.	1.8	88
35	The Lherz spinel lherzolite: Refertilized rather than pristine mantle. Earth and Planetary Science Letters, 2007, 259, 599-612.	1.8	305
36	Submarine Fernandina: Magmatism at the leading edge of the Galápagos hot spot. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	66

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37	Correlated helium, neon, and melt production on the super-fast spreading East Pacific Rise near 17°S. Earth and Planetary Science Letters, 2005, 232, 125-142.	1.8	59
38	Rapid helium isotopic variability in Mauna Kea shield lavas from the Hawaiian Scientific Drilling Project. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	1.0	96
39	Genovesa Submarine Ridge: A manifestation of plume-ridge interaction in the northern Galápagos Islands. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	1.0	48
40	Low ³ He/ ⁴ He ratios in basalt glasses from the western Southwest Indian Ridge (10°-24°E). Earth and Planetary Science Letters, 2003, 206, 509-528.	1.8	59
41	Mapping out the conduit of the Iceland mantle plume with helium isotopes. Earth and Planetary Science Letters, 2000, 176, 45-55.	1.8	95
42	Accretion of interplanetary dust in polar ice. Geophysical Research Letters, 2000, 27, 3145-3148.	1.5	31
43	The emergence of a Galápagos shield volcano, Roca Redonda. Contributions To Mineralogy and Petrology, 1998, 133, 136-148.	1.2	22
44	Isotope Geochemistry of the Oceanic Mantle Near the Bouvet Triple Junction. Geochimica Et Cosmochimica Acta, 1998, 62, 841-852.	1.6	56
45	Isotopic evolution of Mauna Loa Volcano: A view from the submarine southwest rift zone. Geophysical Monograph Series, 1995, , 289-306.	0.1	54
46	Chronology of Taylor Glacier Advances in Arena Valley, Antarctica, Using in Situ Cosmogenic ³ He and ¹⁰ Be. Quaternary Research, 1993, 39, 11-23.	1.0	126
47	Helium isotope geochemistry of mid-ocean ridge basalts from the South Atlantic. Earth and Planetary Science Letters, 1992, 110, 133-147.	1.8	101
48	A FRAMEWORK FOR TRANSDISCIPLINARY RADIOCARBON RESEARCH: USE OF NATURAL-LEVEL AND ELEVATED-LEVEL ¹⁴ C IN ANTARCTIC FIELD RESEARCH. Radiocarbon, 0, , 1-14.	0.8	3
49	RADIOCARBON IN DISSOLVED ORGANIC CARBON BY UV OXIDATION: AN UPDATE OF PROCEDURES AND BLANK CHARACTERIZATION AT NOSAMS. Radiocarbon, 0, , 1-5.	0.8	2