

# Luc Doucet

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,495  
citations

257450

24  
h-index

315739

38  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pitfalls in using the geochronological information from the EarthChem Portal for Precambrian time-series analysis. <i>Precambrian Research</i> , 2022, 369, 106514.	2.7	10
2	Has the impact flux of small and large asteroids varied through time on Mars, the Earth and the Moon?. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117362.	4.4	5
3	Fe isotopic evidence that "high pressure" TTGs formed at low pressure. <i>Earth and Planetary Science Letters</i> , 2022, 592, 117645.	4.4	11
4	Early crustal processes revealed by the ejection site of the oldest martian meteorite. <i>Nature Communications</i> , 2022, 13, .	12.8	11
5	Pannotia: in defence of its existence and geodynamic significance. <i>Geological Society Special Publication</i> , 2021, 503, 13-39.	1.3	34
6	The largest plagiogranite on Earth formed by re-melting of juvenile proto-continental crust. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	17
7	Two-stage crustal growth in the Arabian-Nubian shield: Initial arc accretion followed by plume-induced crustal reworking. <i>Precambrian Research</i> , 2021, 359, 106211.	2.7	10
8	Oceanic and super-deep continental diamonds share a transition zone origin and mantle plume transportation. <i>Scientific Reports</i> , 2021, 11, 16958.	3.3	7
9	The Tharsis mantle source of depleted shergottites revealed by 90 million impact craters. <i>Nature Communications</i> , 2021, 12, 6352.	12.8	31
10	Coupled supercontinent "mantle plume events evidenced by oceanic plume record. <i>Geology</i> , 2020, 48, 159-163.	4.4	42
11	TTG generation by fluid-fluxed crustal melting: Direct evidence from the Proterozoic Georgetown Inlier, NE Australia. <i>Earth and Planetary Science Letters</i> , 2020, 550, 116548.	4.4	45
12	Decoupled water and iron enrichments in the cratonic mantle: A study on peridotite xenoliths from Tok, SE Siberian Craton. <i>American Mineralogist</i> , 2020, 105, 803-819.	1.9	4
13	Geochemical evidence for a widespread mantle re-enrichment 3.2 billion years ago: implications for global-scale plate tectonics. <i>Scientific Reports</i> , 2020, 10, 9461.	3.3	27
14	Archean lithospheric differentiation: Insights from Fe and Zn isotopes. <i>Geology</i> , 2020, 48, 1028-1032.	4.4	22
15	Distinct formation history for deep-mantle domains reflected in geochemical differences. <i>Nature Geoscience</i> , 2020, 13, 511-515.	12.9	42
16	Innovative two-step isolation of Ni prior to stable isotope ratio measurements by MC-ICP-MS: application to igneous geological reference materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2213-2223.	3.0	8
17	Timing and causes of the mid-Cretaceous global plate reorganization event. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116071.	4.4	22
18	Mantle heterogeneity through Zn systematics in oceanic basalts: Evidence for a deep carbon cycling. <i>Earth-Science Reviews</i> , 2020, 205, 103174.	9.1	44

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19	Cr-spinel records metasomatism not petrogenesis of mantle rocks. <i>Nature Communications</i> , 2019, 10, 5103.	12.8	42
20	Global geochemical fingerprinting of plume intensity suggests coupling with the supercontinent cycle. <i>Nature Communications</i> , 2019, 10, 5270.	12.8	26
21	Lost in interpretation: Facts and misconceptions about the mantle of the Siberian craton. A comment on: "Composition of the lithospheric mantle in the northern part of Siberian craton: Constraints from peridotites in the Obnazhennaya kimberlite" by. <i>Lithos</i> , 2018, 314-315, 683-687.	1.4	2
22	Reworking of Archean mantle in the NE Siberian craton by carbonatite and silicate melt metasomatism: Evidence from a carbonate-bearing, dunite-to-websterite xenolith suite from the Obnazhennaya kimberlite. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 224, 132-153.	3.9	58
23	Zn isotope heterogeneity in the continental lithosphere: New evidence from Archean granitoids of the northern Kaapvaal craton, South Africa. <i>Chemical Geology</i> , 2018, 476, 260-271.	3.3	28
24	Ultra-refractory mantle within oceanic plateau: Petrology of the spinel harzburgites from Lac Michèle, Kerguelen Archipelago. <i>Lithos</i> , 2017, 272-273, 336-349.	1.4	7
25	Links between deformation, chemical enrichments and Li-isotope compositions in the lithospheric mantle of the central Siberian craton. <i>Chemical Geology</i> , 2017, 475, 105-121.	3.3	26
26	Olivine inclusions in Siberian diamonds and mantle xenoliths: Contrasting water and trace-element contents. <i>Lithos</i> , 2016, 265, 31-41.	1.4	26
27	Zn isotopic heterogeneity in the mantle: A melting control?. <i>Earth and Planetary Science Letters</i> , 2016, 451, 232-240.	4.4	73
28	Paleoproterozoic formation age for the Siberian cratonic mantle: Hf and Nd isotope data on refractory peridotite xenoliths from the Udachnaya kimberlite. <i>Chemical Geology</i> , 2015, 391, 42-55.	3.3	41
29	The age and history of the lithospheric mantle of the Siberian craton: Re-Os and PGE study of peridotite xenoliths from the Obnazhennaya kimberlite. <i>Earth and Planetary Science Letters</i> , 2015, 428, 108-119.	4.4	54
30	Post-Archean formation of the lithospheric mantle in the central Siberian craton: Re-Os and PGE study of peridotite xenoliths from the Udachnaya kimberlite. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 165, 466-483.	3.9	62
31	High water contents in the Siberian cratonic mantle linked to metasomatism: An FTIR study of Udachnaya peridotite xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 137, 159-187.	3.9	126
32	The origin of coarse garnet peridotites in cratonic lithosphere: new data on xenoliths from the Udachnaya kimberlite, central Siberia. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 1225-1242.	3.1	91
33	Thermal state, oxygen fugacity and C-H fluid speciation in cratonic lithospheric mantle: New data on peridotite xenoliths from the Udachnaya kimberlite, Siberia. <i>Earth and Planetary Science Letters</i> , 2012, 357-358, 99-110.	4.4	97
34	Depth, degrees and tectonic settings of mantle melting during craton formation: inferences from major and trace element compositions of spinel harzburgite xenoliths from the Udachnaya kimberlite, central Siberia. <i>Earth and Planetary Science Letters</i> , 2012, 359-360, 206-218.	4.4	70
35	Three-Dimensional Imaging of Sulfides in Silicate Rocks at Submicron Resolution with Multiphoton Microscopy. <i>Microscopy and Microanalysis</i> , 2011, 17, 937-943.	0.4	8
36	Seismic velocities, anisotropy and deformation in Siberian cratonic mantle: EBSD data on xenoliths from the Udachnaya kimberlite. <i>Earth and Planetary Science Letters</i> , 2011, 304, 71-84.	4.4	36

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37	Composition of the Lithospheric Mantle in the Siberian Craton: New Constraints from Fresh Peridotites in the Udachnaya-East Kimberlite. <i>Journal of Petrology</i> , 2010, 51, 2177-2210.	2.8	177