

Bertrand Moine

List of Publications by Year in descending order

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41
papers

1,147
citations

471509

17
h-index

414414

32
g-index

43
all docs

43
docs citations

43
times ranked

1322
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace Element Residence and Partitioning in Mantle Xenoliths Metasomatized by Highly Alkaline, Silicate- and Carbonate-rich Melts (Kerguelen Islands, Indian Ocean). <i>Journal of Petrology</i> , 2000, 41, 477-509.	2.8	197
2	Platinum-group elements and the multistage metasomatic history of Kerguelen lithospheric mantle (South Indian Ocean). <i>Chemical Geology</i> , 2004, 208, 195-215.	3.3	95
3	182W evidence for core-mantle interaction in the source of mantle plumes. <i>Geochemical Perspectives Letters</i> , 0, , 6-11.	5.0	85
4	High Field Strength Element Fractionation in the Upper Mantle: Evidence from Amphibole-Rich Composite Mantle Xenoliths from the Kerguelen Islands (Indian Ocean). <i>Journal of Petrology</i> , 2001, 42, 2145-2167.	2.8	72
5	Carbonatite melt in oceanic upper mantle beneath the Kerguelen Archipelago. <i>Lithos</i> , 2004, 75, 239-252.	1.4	64
6	Paleoproterozoic rejuvenation and replacement of Archaean lithosphere: Evidence from zircon Uâ€Pb dating and Hf isotopes in crustal xenoliths at Udachnaya, Siberian craton. <i>Earth and Planetary Science Letters</i> , 2017, 457, 149-159.	4.4	51
7	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
8	An integrated study of microstructural, geochemical, and seismic properties of the lithospheric mantle above the Kerguelen plume (Indian Ocean). <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	42
9	Trace element partitioning during partial melting of carbonated eclogites. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 174, 60-69.	1.9	41
10	Geochemical heterogeneities within the Crozet hotspot. <i>Earth and Planetary Science Letters</i> , 2013, 376, 126-136.	4.4	37
11	Experimental study of trace element partitioning between enstatite and melt in enstatite chondrites at low oxygen fugacities and 5GPa. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 130, 167-187.	3.9	36
12	Feldspar from carbonate-rich silicate metasomatism in the shallow oceanic mantle under Kerguelen Islands (South Indian Ocean). <i>Lithos</i> , 2004, 75, 209-237.	1.4	35
13	Open-system processes in the genesis of silica-oversaturated alkaline rocks of the Rallier-du-Baty Peninsula, Kerguelen Archipelago (Indian Ocean). <i>Journal of Volcanology and Geothermal Research</i> , 2003, 123, 267-300.	2.1	30
14	Molecular hydrogen in minerals as a clue to interpret δ^2 D variations in the mantle. <i>Nature Communications</i> , 2020, 11, 3604.	12.8	30
15	Effect of hot desert weathering on the bulkâ€rock iron isotope composition of δ^{56} Fe and H5 ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2010, 45, 195-209.	1.6	25
16	Etch-pit morphology of tracks caused by swift heavy ions in natural dark mica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 218, 466-471.	1.4	23
17	Raman spectra of nyerereite, gregoryite, and synthetic pure $\text{N}_2\text{C}(\text{CO})_3$: diversity and application for the study micro inclusions. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1559-1565.	2.5	20
18	Subduction relics in the subcontinental lithospheric mantle evidence from variation in the $\delta^{18}\text{O}$ value of eclogite xenoliths from the Kaapvaal craton. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	18

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19	The Last Termination in the South Indian Ocean: A unique terrestrial record from Kerguelen Islands (49°S) situated within the Southern Hemisphere westerly belt. <i>Quaternary Science Reviews</i> , 2015, 122, 142-157.	3.0	17
20	The Neogene to Recent Rallier-du-Baty nested ring complex, Kerguelen Archipelago (TAAF, Indian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Special Publication, 2004, 234, 125-149.	1.3	16
21	Evidence for Nb ²⁺ and Ta ³⁺ in silicate melts under highly reducing conditions: A XANES study. <i>American Mineralogist</i> , 2015, 100, 2152-2158.	1.9	16
22	Heavy-ion induced defects in phlogopite imaged by scanning force microscopy. <i>Surface and Coatings Technology</i> , 2002, 158-159, 439-443.	4.8	14
23	Alpha-recoil tracks in natural dark mica: Dating geological samples by optical and scanning force microscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 209, 351-356.	1.4	14
24	High-pressure Raman study of nyerereite from Oldoinyo Lengai. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1438-1442.	2.5	13
25	Non-Sequential Injection of PGE-rich Ultramafic Sills in the Platreef Unit at Akanani, Northern Limb of the Bushveld Complex: Evidence from Sr and Nd Isotopic Systematics. <i>Journal of Petrology</i> , 2020, 61, .	2.8	13
26	Rare earth element partitioning between sulphides and melt: Evidence for Yb ²⁺ and Sm ²⁺ in EH chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 182-197.	3.9	12
27	Artificial ion tracks in volcanic dark mica simulating natural radiation damage: A scanning force microscopy study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 191, 346-351.	1.4	11
28	Petrological and geochemical constraints on the composition of the lithospheric mantle beneath the Syrian rift, northern part of the Arabian plate. <i>Geological Society Special Publication</i> , 2008, 293, 223-251.	1.3	11
29	Hydrothermal fluid interaction in basaltic lava units, Kerguelen Archipelago (SW Indian Ocean). <i>European Journal of Mineralogy</i> , 2010, 22, 215-234.	1.3	11
30	Incommensurately modulated twin structure of nyerereite Na _{1.64} K _{0.36} Ca(CO ₃) ₂ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017, 73, 276-284.	1.1	11
31	The volcano-sedimentary Boukaï's inlier (south-western Algeria): evidence for lithospheric thinning during the Late Neoproterozoic. <i>Journal of African Earth Sciences</i> , 2004, 39, 257-266.	2.0	9
32	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
33	The field and remote sensing analysis of the Kerguelen Archipelago structure, Indian Ocean. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 199, 206-215.	2.1	6
34	The contribution of tephra constituents during biogenic silica determination: implications for soil and palaeoecological studies. <i>Biogeosciences</i> , 2015, 12, 3789-3804.	3.3	5
35	Stable isotope study of rainfall, river drainage and hot springs of the kerguelen archipelago, SW Indian Ocean. <i>Geothermics</i> , 2020, 83, 101726.	3.4	5
36	Kyanite-bearing eclogite xenoliths from the Udachnaya kimberlite, Siberian craton, Russia. <i>Bulletin - Societe Geologique De France</i> , 2017, 188, 7.	2.2	4

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37	Sapphirine-bearing pyroxenite xenoliths in Cenozoic alkali basalt from Jabel El Arab (Syria): Insights into the nature and composition of the lithosphere beneath the southern Syrian Rift, northern part of the Arabian Plate. <i>Journal of Asian Earth Sciences</i> , 2020, 190, 104146.	2.3	3
38	The subantarctic lithospheric mantle. <i>Geological Society Memoir</i> , 2023, 56, 115-132.	1.7	2
39	A mineralogical and geochemical study of polymict eucrite discovered in Sahara of southwest Algeria. <i>Arabian Journal of Geosciences</i> , 2013, 6, 3175-3184.	1.3	1
40	Petrology, mineralogy, and geochemistry of the olivine diogenite NWA 4255: new insights into the magmatic evolution of asteroid 4 Vesta. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	0
41	Serpentinization of mantle xenoliths in Kerguelen archipelago: A first petrographic and geochemical study. <i>Lithos</i> , 2022, , 106796.	1.4	0