Jussi Sakari Heinonen

List of Publications by Year
in descending order

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31	657	566801 15	580395 25
papers	citations	h-index	g-index

40	40	40	536
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Isotopic (Sr, Nd, Pb, and Os) composition of highly magnesian dikes of Vestfjella, western Dronning Maud Land, Antarctica: A key to the origins of the Jurassic Karoo large igneous province?. Chemical Geology, 2010, 277, 227-244.	1.4	74
2	Diagnosing open-system magmatic processes using the Magma Chamber Simulator (MCS): part Iâ€"major elements and phase equilibria. Contributions To Mineralogy and Petrology, 2020, 175, 1.	1.2	49
3	Jurassic dikes of Vestfjella, western Dronning Maud Land, Antarctica: Geochemical tracing of ferropicrite sources. Lithos, 2008, 105, 347-364.	0.6	45
4	Mixed pyroxeniteâ€"peridotite sources for mafic and ultramafic dikes from the Antarctic segment of the Karoo continental flood basalt province. Lithos, 2013, 177, 366-380.	0.6	44
5	Enriched continental flood basalts from depleted mantle melts: modeling the lithospheric contamination of Karoo lavas from Antarctica. Contributions To Mineralogy and Petrology, 2016, 171, 1.	1.2	43
6	Subduction-modified oceanic crust mixed with a depleted mantle reservoir in the sources of the Karoo continental flood basalt province. Earth and Planetary Science Letters, 2014, 394, 229-241.	1.8	41
7	Crystallisation temperatures of the most Mg-rich magmas of the Karoo LIP on the basis of Al-in-olivine thermometry. Chemical Geology, 2015, 411, 26-35.	1.4	41
8	Mineral chemical evidence for extremely magnesian subalkaline melts from the Antarctic extension of the Karoo large igneous province. Mineralogy and Petrology, 2010, 99, 201-217.	0.4	37
9	Depleted Mantle-sourced CFB Magmatism in the Jurassic Africaâ€"Antarctica Rift: Petrology and 40Ar/39Ar and U/Pb Chronology of the Vestfjella Dyke Swarm, Dronning Maud Land, Antarctica. Journal of Petrology, 2015, 56, 919-952.	1.1	37
10	Deep mixing of mantle melts beneath continental flood basalt provinces: Constraints from olivine-hosted melt inclusions in primitive magmas. Geochimica Et Cosmochimica Acta, 2017, 196, 36-57.	1.6	37
11	Diagnosing open-system magmatic processes using the Magma Chamber Simulator (MCS): part IIâ€"trace elements and isotopes. Contributions To Mineralogy and Petrology, 2020, 175, 1.	1.2	28
12	Deep open storage and shallow closed transport system for a continental flood basalt sequence revealed with Magma Chamber Simulator. Contributions To Mineralogy and Petrology, 2019, 174, 1.	1.2	25
13	Enrichment of 18O in the mantle sources of the Antarctic portion of the Karoo large igneous province. Contributions To Mineralogy and Petrology, 2018, 173, 1.	1.2	22
14	High Ni and low Mn/Fe in olivine phenocrysts of the Karoo meimechites do not reflect pyroxenitic mantle sources. Chemical Geology, 2017, 467, 134-142.	1.4	21
15	Chemical evolution and origin of the LuumÃki gem beryl pegmatite: Constraints from mineral trace element chemistry and fractionation modeling. Lithos, 2017, 274-275, 147-168.	0.6	20
16	A late Paleoproterozoic key pole for the Fennoscandian Shield: A paleomagnetic study of the Keuruu diabase dykes, Central Finland. Precambrian Research, 2016, 286, 379-397.	1.2	16
17	Low-3He/4He 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
18	Thermodynamic limits for assimilation of silicate crust in primitive magmas. Geology, 2022, 50, 81-85.	2.0	12

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19	Parental magma, magmatic stratigraphy, and reef-type PGE enrichment of the 2.44-Ga mafic-ultramafic NÃrÃnkÃvaara layered intrusion, Northern Finland. Mineralium Deposita, 2020, 55, 1535-1560.	1.7	11
20	Luenha picrites, Central Mozambique â€“ Messengers from a mantle plume source of Karoo continental flood basalts?. Lithos, 2019, 346-347, 105152.	0.6	7
21	Geochemical and thermodynamic modeling of the petrogenesis of A1-type granites and associated intermediate rocks: A case study from the central Fennoscandian Shield. Chemie Der Erde, 2021, 81, 125734.	0.8	7
22	Fluids as primary carriers of sulphur and copper in magmatic assimilation. Nature Communications, 2021, 12, 6609.	5.8	5
23	Equilibrium crystallization of massif-type anorthosite residual melts: a case study from the 1.64ÂGa Ahvenisto complex, Southeastern Finland. Contributions To Mineralogy and Petrology, 2020, 175, 1.	1.2	4
24	Tracing arclogites in the Paleoproterozoic Era â€“ A shift from 1.88 Ga calc-alkaline to 1.86 Ga high-Nb and adakite-like magmatism in central Fennoscandian Shield. Lithos, 2020, 372-373, 105663.	0.6	2
25	Complex Effects of Assimilation on Sulfide Saturation Revealed by Modeling with the Magma Chamber Simulator: A Case Study on the Duluth Complex, Minnesota, USA. Economic Geology, 2022, 117, 1881-1899.	1.8	2
26	Modelling the Formation of Linear Geochemical Trends Using the Magma Chamber Simulator: A Case Study of the Jindabyne Granitoids, Lachlan Fold Belt, Australia. Journal of Petrology, 2022, 63, .	1.1	2
27	Magmatic erosion of high-temperature-melting cumulates in the Bushveld Complex by chemical dissolution. Geosystems and Geoenvironment, 2022, 1, 100077.	1.7	2
28	The basal dunite of the Precambrian mafic-ultramafic NÃrÃnkÃvaara intrusion: Petrogenetic considerations and implications to exploration. Mineralogy and Petrology, 2021, 115, 37-61.	0.4	1
29	Thermodynamic constraints on the petrogenesis of massif-type anorthosites and their parental magmas. Lithos, 2022, 422-423, 106751.	0.6	1
30	Serial interaction of primitive magmas with felsic and mafic crust recorded by gabbroic dikes from the Antarctic extension of the Karoo large igneous province. Contributions To Mineralogy and Petrology, 2021, 176, 1.	1.2	0
31	Some new insights into the geochronology of the Western Karelia Subprovince, Finnish Lapland. Bulletin of the Geological Society of Finland, 2020, 92, 5-17.	0.2	0