

Hannes B Mattsson

List of Publications by Year in descending order

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37
papers

1,151
citations

331670

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395702

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docs citations

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1206
citing authors

#	ARTICLE	IF	CITATIONS
1	Element Partitioning between Immiscible Carbonatite and Silicate Melts for Dry and H ₂ O-bearing Systems at 3 GPa. <i>Journal of Petrology</i> , 2013, 54, 2301-2338.	2.8	138
2	A common origin of carbonatite magmas. <i>Geology</i> , 2017, 45, 507-510.	4.4	83
3	Ice nucleation properties of volcanic ash from Eyjafjallajökull. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9911-9926.	4.9	75
4	Scales of columnar jointing in igneous rocks: field measurements and controlling factors. <i>Bulletin of Volcanology</i> , 2012, 74, 457-482.	3.0	61
5	Fundamental changes in the activity of the natrocarbonatite volcano Oldoinyo Lengai, Tanzania. <i>Bulletin of Volcanology</i> , 2010, 72, 893-912.	3.0	54
6	Element partitioning between immiscible carbonatite-kamafugite melts with application to the Italian ultrapotassic suite. <i>Chemical Geology</i> , 2012, 320-321, 96-112.	3.3	53
7	Fractional crystallization of Si-undersaturated alkaline magmas leading to unmixing of carbonatites on Brava Island (Cape Verde) and a general model of carbonatite genesis in alkaline magma suites. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	51
8	Petrogenesis of the melilititic and nephelinitic rock suites in the Lake Natron-Engaruka monogenetic volcanic field, northern Tanzania. <i>Lithos</i> , 2013, 179, 175-192.	1.4	43
9	Voluminous lava flows at Oldoinyo Lengai in 2006: chronology of events and insights into the shallow magmatic system. <i>Bulletin of Volcanology</i> , 2008, 70, 1069-1086.	3.0	38
10	Fundamental changes in the activity of the natrocarbonatite volcano Oldoinyo Lengai, Tanzania. <i>Bulletin of Volcanology</i> , 2010, 72, 913-931.	3.0	38
11	Depositional characteristics and volcanic landforms in the Lake Natron-Engaruka monogenetic field, northern Tanzania. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 203, 23-34.	2.1	37
12	Petrogenesis of alkaline basalts at the tip of a propagating rift: Evidence from the Heimaey volcanic centre, south Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 147, 245-267.	2.1	36
13	Textural variation in juvenile pyroclasts from an emergent, Surtseyan-type, volcanic eruption: The Capelas tuff cone, São Miguel (Azores). <i>Journal of Volcanology and Geothermal Research</i> , 2010, 189, 81-91.	2.1	35
14	Dynamics of Magma Mixing in Partially Crystallized Magma Chambers: Textural and Petrological Constraints from the Basal Complex of the Austurhorn Intrusion (SE Iceland). <i>Journal of Petrology</i> , 2014, 55, 1865-1903.	2.8	35
15	Growth of an emergent tuff cone: Fragmentation and depositional processes recorded in the Capelas tuff cone, São Miguel, Azores. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 159, 246-266.	2.1	32
16	Melt migration in basalt columns driven by crystallization-induced pressure gradients. <i>Nature Communications</i> , 2011, 2, 299.	12.8	31
17	Geology of the Heimaey volcanic centre, south Iceland: early evolution of a central volcano in a propagating rift?. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 127, 55-71.	2.1	27
18	Ash fall impact on vegetation: a remote sensing approach of the Oldoinyo Lengai 2007-08 eruption. <i>Journal of Applied Volcanology</i> , 2015, 4, .	2.0	26

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19	Rapid magma ascent and short eruption durations in the Lake Natron "Engaruka monogenetic volcanic field (Tanzania): A case study of the olivine melilititic Pello Hill scoria cone. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 247-248, 16-25.	2.1	25
20	Mineralogical and geochemical characterization of ashes from an early phase of the explosive September 2007 eruption of Oldoinyo Lengai (Tanzania). <i>Journal of African Earth Sciences</i> , 2010, 58, 752-763.	2.0	21
21	Contemporaneous phreatomagmatic and effusive activity along the Hverfjall eruptive fissure, north Iceland: Eruption chronology and resulting deposits. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 201, 241-252.	2.1	21
22	Internal flow structures in columnar jointed basalt from Hrepph��lar, Iceland: II. Magnetic anisotropy and rock magnetic properties. <i>Bulletin of Volcanology</i> , 2012, 74, 1667-1681.	3.0	21
23	Magma mixing and forced exsolution of CO ₂ during the explosive 2007 "2008 eruption of Oldoinyo Lengai (Tanzania). <i>Journal of Volcanology and Geothermal Research</i> , 2014, 285, 229-246.	2.1	19
24	Eruption reconstruction, formation of flow-lobe tumuli and eruption duration in the 5900 BP Helgafell lava field (Heimaey), south Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 147, 157-172.	2.1	18
25	Geochemistry and eruptive behaviour of the Finca la Nava maar volcano (Campo de Calatrava,) Tj ETQq1 1 0.784314.rgBT /Overlock 10 1.8	1.8	18
26	Origin of internal flow structures in columnar-jointed basalt from Hrepph��lar, Iceland: I. Textural and geochemical characterization. <i>Bulletin of Volcanology</i> , 2012, 74, 1645-1666.	3.0	16
27	Emplacement and inflation of natrocarbonatitic lava flows during the March "April 2006 eruption of Oldoinyo Lengai, Tanzania. <i>Bulletin of Volcanology</i> , 2009, 71, 301-311.	3.0	13
28	The Lake Natron Footprint Tuff (northern Tanzania): volcanic source, depositional processes and age constraints from field relations. <i>Journal of Quaternary Science</i> , 2016, 31, 526-537.	2.1	13
29	Magma ascent, fragmentation and depositional characteristics of "��dry" maar volcanoes: Similarities with vent-facies kimberlite deposits. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 252, 53-72.	2.1	12
30	Origin of the compositional diversity in the basalt-to-dacite series erupted along the Hei��arspor��ur ridge, NE Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 301, 116-127.	2.1	10
31	Experimental constraints on the crystallization of natrocarbonatitic lava flows. <i>Bulletin of Volcanology</i> , 2009, 71, 1179-1193.	3.0	9
32	Leaching of lava and tephra from the Oldoinyo Lengai volcano (Tanzania): Remobilization of fluorine and other potentially toxic elements into surface waters of the Gregory Rift. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 332, 14-25.	2.1	9
33	Mineral resorption triggers explosive mixed silicate "carbonatite eruptions. <i>Earth and Planetary Science Letters</i> , 2019, 510, 219-230.	4.4	9
34	Crustal xenoliths in the 6220 BP S��fell tuff-cone, south Iceland: Evidence for a deep, diatreme-forming, Surtseyan eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 145, 234-248.	2.1	7
35	New tephrostratigraphic data from Lake Emakat (northern Tanzania): Implications for the eruptive history of the Oldoinyo Lengai volcano. <i>Journal of African Earth Sciences</i> , 2018, 147, 374-382.	2.0	6
36	The role of mafic dykes in the petrogenesis of the Archean Siilinj��rvi carbonatite complex, east-central Finland. <i>Lithos</i> , 2019, 342-343, 468-479.	1.4	6

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37	In-situ garnet ^{238}U - ^{230}Th geochronology of Holocene silica-undersaturated volcanic tuffs at millennial-scale precision. <i>Quaternary Geochronology</i> , 2019, 50, 1-7.	1.4	5