

Marian Holness

List of Publications by Year in descending order

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68
papers

3,117
citations

147566

31
h-index

161609

54
g-index

70
all docs

70
docs citations

70
times ranked

1654
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Pseudomorphing of Melt-filled Pores During the Crystallization of Migmatites. <i>Journal of Petrology</i> , 2008, 49, 1343-1363.	1.1	241
2	Melted Rocks under the Microscope: Microstructures and Their Interpretation. <i>Elements</i> , 2011, 7, 247-252.	0.5	162
3	Differentiation and Compaction in the Skaergaard Intrusion. <i>Journal of Petrology</i> , 2009, 50, 813-840.	1.1	144
4	Silicate Liquid Immiscibility within the Crystal Mush: Late-stage Magmatic Microstructures in the Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2011, 52, 175-222.	1.1	132
5	Temperature and pressure dependence of quartz-aqueous fluid dihedral angles: the control of adsorbed H ₂ O on the permeability of quartzites. <i>Earth and Planetary Science Letters</i> , 1993, 117, 363-377.	1.8	129
6	Melt-Solid Dihedral Angles of Common Minerals in Natural Rocks. <i>Journal of Petrology</i> , 2006, 47, 791-800.	1.1	104
7	Partial melting of the Appin Quartzite driven by fracture-controlled H ₂ O infiltration in the aureole of the Ballachulish Igneous Complex, Scottish Highlands. <i>Contributions To Mineralogy and Petrology</i> , 1999, 136, 154-168.	1.2	102
8	On the Use of Changes in Dihedral Angle to Decode Late-stage Textural Evolution in Cumulates. <i>Journal of Petrology</i> , 2005, 46, 1565-1583.	1.1	102
9	Melt segregation from silicic crystal mushes: a critical appraisal of possible mechanisms and their microstructural record. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 48.	1.2	93
10	Equilibrium dihedral angles in the system H ₂ O-CO ₂ -NaCl-calcite, and implications for fluid flow during metamorphism. <i>Contributions To Mineralogy and Petrology</i> , 1991, 108, 368-383.	1.2	88
11	Equilibrium dihedral angles in the system quartz-CO ₂ -H ₂ O-NaCl at 800°C and 15 kbar: the effects of pressure and fluid composition on the permeability of quartzites. <i>Earth and Planetary Science Letters</i> , 1992, 114, 171-184.	1.8	85
12	A Textural Record of Solidification and Cooling in the Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2007, 48, 2359-2377.	1.1	80
13	Assessing the Role of Compaction in the Formation of Adcumulates: a Microstructural Perspective. <i>Journal of Petrology</i> , 2017, 58, 643-673.	1.1	78
14	Dual origin of Fe-Ti-P gabbros by immiscibility and fractional crystallization of evolved tholeiitic basalts in the Sept Iles layered intrusion. <i>Lithos</i> , 2012, 154, 100-114.	0.6	74
15	The Skaergaard PGE and Gold Deposit: the Result of <i>in situ</i> Fractionation, Sulphide Saturation, and Magma Chamber-scale Precious Metal Redistribution by Immiscible Fe-rich Melt. <i>Journal of Petrology</i> , 2015, 56, 1643-1676.	1.1	73
16	Textures in Partially Solidified Crystalline Nodules: a Window into the Pore Structure of Slowly Cooled Mafic Intrusions. <i>Journal of Petrology</i> , 2007, 48, 1243-1264.	1.1	69
17	Textural Maturity of Cumulates: a Record of Chamber Filling, Liquidus Assemblage, Cooling Rate and Large-scale Convection in Mafic Layered Intrusions. <i>Journal of Petrology</i> , 2006, 48, 141-157.	1.1	67
18	Infiltration Metasomatism of Cumulates by Intrusive Magma Replenishment: the Wavy Horizon, Isle of Rum, Scotland. <i>Journal of Petrology</i> , 2007, 48, 563-587.	1.1	62

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19	Textural analysis of magmatic enclaves from the Kameni Islands, Santorini, Greece. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 154, 89-102.	0.8	59
20	Spatial Constraints on Magma Chamber Replenishment Events from Textural Observations of Cumulates: the Rum Layered Intrusion, Scotland. <i>Journal of Petrology</i> , 2005, 46, 1585-1601.	1.1	51
21	P-T-X effects on equilibrium carbonate-H ₂ O-CO ₂ -NaCl dihedral angles: constraints on carbonate permeability and the role of deformation during fluid infiltration. <i>Contributions To Mineralogy and Petrology</i> , 1995, 119, 301-313.	1.2	50
22	Quartz recrystallization and fluid flow during contact metamorphism: a cathodoluminescence study. <i>Geofluids</i> , 2001, 1, 215-228.	0.3	48
23	The effect of feldspar on quartz-H ₂ O-CO ₂ dihedral angles at 4 kbar, with consequences for the behaviour of aqueous fluids in migmatites. <i>Contributions To Mineralogy and Petrology</i> , 1995, 118, 356-364.	1.2	41
24	Fluid flow paths and mechanisms of fluid infiltration in carbonates during contact metamorphism: the Beinn an Dubhaich aureole, Skye. <i>Journal of Metamorphic Geology</i> , 1997, 15, 59-70.	1.6	41
25	Contact metamorphism and anatexis of Torridonian arkose by minor intrusions of the Rum Igneous Complex, Inner Hebrides, Scotland. <i>Geological Magazine</i> , 1999, 136, 527-542.	0.9	41
26	The effect of crystallization time on plagioclase grain shape in dolerites. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	1.2	41
27	On the kinetics of textural equilibration in forsterite marbles. <i>Contributions To Mineralogy and Petrology</i> , 1991, 108, 356-367.	1.2	39
28	The role of crystal frameworks in the preservation of enclaves during magma mixing. <i>Earth and Planetary Science Letters</i> , 2006, 248, 787-799.	1.8	36
29	Magma chambers versus mush zones: constraining the architecture of sub-volcanic plumbing systems from microstructural analysis of crystalline enclaves. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180006.	1.6	36
30	Toward an understanding of disequilibrium dihedral angles in mafic rocks. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
31	Crystallization of Interstitial Liquid and Latent Heat Buffering in Solidifying Gabbros: Skaergaard Intrusion, Greenland. <i>Journal of Petrology</i> , 2014, 55, 1389-1427.	1.1	34
32	A granite-gabbro complex from Madagascar: constraints on melting of the lower crust. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 585-599.	1.2	32
33	The Unit 12 allivalite, Eastern Layered Intrusion, Isle of Rum: a textural and geochemical study of an open-system magma chamber. <i>Geological Magazine</i> , 2009, 146, 437-450.	0.9	32
34	Lateral Reactive Infiltration in a Vertical Gabbroic Crystal Mush, Skaergaard Intrusion, East Greenland. <i>Journal of Petrology</i> , 2013, 54, 985-1016.	1.1	31
35	The rates and extent of textural equilibration in high-temperature fluid-bearing systems. <i>Chemical Geology</i> , 2000, 162, 137-153.	1.4	29
36	Disequilibrium dihedral angles in dolerite sills: A new proxy for cooling rate. <i>Geology</i> , 2012, 40, 795-798.	2.0	29

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37	Crystal settling and convection in the Shiant Isles Main Sill. Contributions To Mineralogy and Petrology, 2017, 172, 7.	1.2	29
38	Metamorphism and Fluid Infiltration of the Calc-silicate Aureole of the Beinn an Dubhaich Granite, Skye. Journal of Petrology, 1992, 33, 1261-1293.	1.1	27
39	Growth and albitization of K-feldspar in crystalline rocks in the shallow crust: a tracer for fluid circulation during exhumation?. Geofluids, 2003, 3, 89-102.	0.3	27
40	Textural immaturity of cumulates as an indicator of magma chamber processes: infiltration and crystal accumulation in the Rum Eastern Layered Intrusion. Journal of the Geological Society, 2007, 164, 529-539.	0.9	26
41	Melting and melt segregation in the aureole of the Glenmore Plug, Ardnamurchan. Journal of Metamorphic Geology, 2005, 23, 29-43.	1.6	25
42	Quantitative textural analysis of packings of elongate crystals. Contributions To Mineralogy and Petrology, 2008, 156, 413-429.	1.2	24
43	Melt-rich segregations in the Skaergaard Marginal Border Series: Tearing of a vertical silicate mush. Lithos, 2010, 119, 181-192.	0.6	24
44	The Earliest History of the Skaergaard Magma Chamber: a Textural and Geochemical Study of the Cambridge Drill Core. Journal of Petrology, 2015, 56, 1199-1227.	1.1	24
45	Disequilibrium Dihedral Angles in Layered Intrusions: a Microstructural Record of Fractionation. Journal of Petrology, 2013, 54, 2067-2093.	1.1	23
46	Controls on the mechanisms of fluid infiltration and front advection during regional metamorphism: a stable isotope and textural study of retrograde Dalradian rocks of the SW Scottish Highlands. Journal of Metamorphic Geology, 1994, 12, 249-260.	1.6	22
47	The aureole of the Rum Tertiary Igneous Complex, Scotland. Journal of the Geological Society, 2003, 160, 15-27.	0.9	22
48	The Thickness of the Mushy Layer on the Floor of the Skaergaard Magma Chamber at Apatite Saturation. Journal of Petrology, 2017, 58, 909-932.	1.1	21
49	The peridotite plugs of Rum: Crystal settling and fabric development in magma conduits. Lithos, 2012, 134-135, 23-40.	0.6	20
50	Local deformation in compacting flows: development of pressure shadows. Earth and Planetary Science Letters, 2000, 180, 169-184.	1.8	18
51	The Creation and Evolution of Crystal Mush in the Upper Zone of the Rustenburg Layered Suite, Bushveld Complex, South Africa. Journal of Petrology, 2019, 60, 1523-1542.	1.1	18
52	Insights into continental rift-related magma chambers: Cognate nodules from the Kula Volcanic Province, Western Turkey. Journal of Volcanology and Geothermal Research, 2006, 153, 241-261.	0.8	17
53	Palaeohydrology of the calcsilicate aureole of the Beinn an Dubhaich granite, Skye, Scotland: a stable isotopic study. Journal of Metamorphic Geology, 1997, 15, 71-83.	1.6	16
54	Information about open-system magma chambers derived from textures in magmatic enclaves: the Kameni Islands, Santorini, Greece. Geological Magazine, 2005, 142, 637-649.	0.9	15

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55	Interstitial magmatic scapolite in glass-bearing crystalline nodules from the Kula Volcanic Province, Western Turkey. <i>Mineralogical Magazine</i> , 2008, 72, 1243-1259.	0.6	13
56	Early mafic magmatism and crustal anatexis on the Isle of Rum: evidence from the Am MÃm intrusion breccia. <i>Geological Magazine</i> , 2009, 146, 368-381.	0.9	13
57	Microstructures and Late-Stage Magmatic Processes in Layered Mafic Intrusions: Symplectites from the Sept Iles Intrusion, Quebec, Canada. <i>Journal of Petrology</i> , 2020, 61, .	1.1	13
58	Geochemical self-organization of olivine-grade contact metamorphosed chert nodules in dolomite marble, Kilchrist, Skye. <i>Journal of Metamorphic Geology</i> , 1997, 15, 765-775.	1.6	12
59	Contrasting rock permeability in the aureole of the Ballachulish igneous complex, Scottish Highlands: the influence of surface energy?. <i>Contributions To Mineralogy and Petrology</i> , 1998, 131, 86-94.	1.2	12
60	Metasomatism and self-organization of dolerite dyke-marble contacts: Beinn an Dubhaich, Skye. <i>Journal of Metamorphic Geology</i> , 2000, 18, 103-118.	1.6	11
61	Orientation of Tabular Mafic Intrusions Controls Convective Vigour and Crystallization Style. <i>Journal of Petrology</i> , 2017, 58, 2035-2053.	1.1	11
62	Spherulitic textures formed during crystallization of partially melted arkose, Rum, Scotland. <i>Geological Magazine</i> , 2002, 139, 651-663.	0.9	10
63	Response to Comment by McBirney, Boudreau and Marsh. <i>Journal of Petrology</i> , 2009, 50, 97-102.	1.1	9
64	Contact Metamorphism of Precambrian Gneiss by the Skaergaard Intrusion. <i>Journal of Petrology</i> , 2014, 55, 1595-1617.	1.1	8
65	Imprinted textures on apatite: A guide to paleoporosity and metamorphic recrystallization. <i>Geology</i> , 2006, 34, 897.	2.0	6
66	The campsite dykes: A window into the early post-solidification history of the Skaergaard Intrusion, East Greenland. <i>Lithos</i> , 2013, 182-183, 134-149.	0.6	6
67	GEOCHEMISTRY: How Melted Rock Migrates. <i>Science</i> , 2006, 314, 934-935.	6.0	3
68	Growth and albitisation of K-feldspar in crystalline rocks in the shallow crust: a new kind of porosity?. <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 173-177.	1.5	2