

Simon Barker

List of Publications by Year in descending order

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30
papers

748
citations

471509

17
h-index

526287

27
g-index

32
all docs

32
docs citations

32
times ranked

770
citing authors

#	ARTICLE	IF	CITATIONS
1	Geochemistry and Petrogenesis of Silicic Magmas in the Intra-Oceanic Kermadec Arc. <i>Journal of Petrology</i> , 2013, 54, 351-391.	2.8	72
2	Rapid priming, accumulation, and recharge of magma driving recent eruptions at a hyperactive caldera volcano. <i>Geology</i> , 2016, 44, 323-326.	4.4	55
3	A cascade of magmatic events during the assembly and eruption of a super-sized magma body. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	53
4	Post-supereruption Magmatic Reconstruction of Taupo Volcano (New Zealand), as Reflected in Zircon Ages and Trace Elements. <i>Journal of Petrology</i> , 2014, 55, 1511-1533.	2.8	49
5	Fine-scale temporal recovery, reconstruction and evolution of a post-supereruption magmatic system. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	45
6	What lies beneath? Reconstructing the primitive magmas fueling voluminous silicic volcanism using olivine-hosted melt inclusions. <i>Geology</i> , 2020, 48, 504-508.	4.4	41
7	Evolution of submarine eruptive activity during the 2011–2012 E–H–I–J–K–L–M–N–O–P–Q–R–S–T–U–V–W–X–Y–Z–AA–AB–AC–AD–AE–AF–AG–AH–AI–AJ–AK–AL–AM–AN–AO–AP–AQ–AR–AS–AT–AU–AV–AW–AX–AY–AZ–BA–BB–BC–BD–BE–BF–BG–BH–BI–BJ–BK–BL–BM–BN–BO–BP–BQ–BR–BS–BT–BU–BV–BW–BX–BY–BZ–CA–CB–CC–CD–CE–CF–CG–CH–CI–CJ–CK–CL–CM–CN–CO–CP–CQ–CR–CS–CT–CU–CV–CW–CX–CY–CZ–DA–DB–DC–DD–DE–DF–DG–DH–DI–DJ–DK–DL–DM–DN–DO–DP–DQ–DR–DS–DT–DU–DV–DW–DX–DY–DZ–EA–EB–EC–ED–EE–EF–EG–EH–EI–EJ–EK–EL–EM–EN–EO–EP–EQ–ER–ES–ET–EU–EV–EW–EX–EY–EZ–FA–FB–FC–FD–FE–FF–FG–FH–FI–FJ–FK–FL–FM–FN–FO–FP–FQ–FR–FS–FT–FU–FV–FW–FX–FY–FZ–GA–GB–GC–GD–GE–GF–GG–GH–GI–GJ–GK–GL–GM–GN–GO–GP–GQ–GR–GS–GT–GU–GV–GW–GX–GY–GZ–HA–HB–HC–HD–HE–HF–HG–HH–HI–HJ–HK–HL–HM–HN–HO–HP–HQ–HR–HS–HT–HU–HV–HW–HX–HY–HZ–IA–IB–IC–ID–IE–IF–IG–IH–II–IJ–IK–IL–IM–IN–IO–IP–IQ–IR–IS–IT–IU–IV–IW–IX–IY–IZ–JA–JB–JC–JD–JE–JF–JG–JH–JI–JJ–JK–JL–JM–JN–JO–JP–JQ–JR–JS–JT–JU–JV–JW–JX–JY–JZ–KA–KB–KC–KD–KE–KF–KG–KH–KI–KJ–KK–KL–KM–KN–KO–KP–KQ–KR–KS–KT–KU–KV–KW–KX–KY–KZ–LA–LB–LC–LD–LE–LF–LG–LH–LI–LJ–LK–LL–LM–LN–LO–LP–LQ–LR–LS–LT–LU–LV–LW–LX–LY–LZ–MA–MB–MC–MD–ME–MF–MG–MH–MI–MJ–MK–ML–MM–MN–MO–MP–MQ–MR–MS–MT–MU–MV–MW–MX–MY–MZ–NA–NB–NC–ND–NE–NF–NG–NH–NI–NJ–NK–NL–NM–NN–NO–NP–NQ–NR–NS–NT–NU–NV–NW–NX–NY–NZ–OA–OB–OC–OD–OE–OF–OG–OH–OI–OJ–OK–OL–OM–ON–OO–OP–OQ–OR–OS–OT–OU–OV–OW–OX–OY–OZ–PA–PB–PC–PD–PE–PF–PG–PH–PI–PJ–PK–PL–PM–PN–PO–PP–PQ–PR–PS–PT–PU–PV–PW–PX–PY–PZ–QA–QB–QC–QD–QE–QF–QG–QH–QI–QJ–QK–QL–QM–QN–QO–QP–QQ–QR–QS–QT–QU–QV–QW–QX–QY–QZ–RA–RB–RC–RD–RE–RF–RG–RH–RI–RJ–RK–RL–RM–RN–RO–RP–RQ–RR–RS–RT–RU–RV–RW–RX–RY–RZ–SA–SB–SC–SD–SE–SF–SG–SH–SI–SJ–SK–SL–SM–SN–SO–SP–SQ–SR–SS–ST–SU–SV–SW–SX–SY–SZ–TA–TB–TC–TD–TE–TF–TG–TH–TI–TJ–TK–TL–TM–TN–TO–TP–TQ–TR–TS–TT–TU–TV–TW–TX–TY–TZ–UA–UB–UC–UD–UE–UF–UG–UH–UI–UJ–UK–UL–UM–UN–UO–UP–UQ–UR–US–UT–UU–UV–UW–UX–UY–UZ–VA–VB–VC–VD–VE–VF–VG–VH–VI–VJ–VK–VL–VM–VN–VO–VP–VQ–VR–VS–VT–VU–VV–VW–VX–VY–VZ–WA–WB–WC–WD–WE–WF–WG–WH–WI–WJ–WK–WL–WM–WN–WO–WP–WQ–WR–WS–WT–WU–WV–WW–WX–WY–WZ–XA–XB–XC–XD–XE–XF–XG–XH–XI–XJ–XK–XL–XM–XN–XO–XP–XQ–XR–XS–XT–XU–XV–XW–XX–XY–XZ–YA–YB–YC–YD–YE–YF–YG–YH–YI–YJ–YK–YL–YM–YN–YO–YP–YQ–YR–YS–YT–YU–YV–YW–YX–YY–YZ–ZA–ZB–ZC–ZD–ZE–ZF–ZG–ZH–ZI–ZJ–ZK–ZL–ZM–ZN–ZO–ZP–ZQ–ZR–ZS–ZT–ZU–ZV–ZW–ZX–ZY–ZZ	2.5	40
8	Taupō: an overview of New Zealand's youngest supervolcano. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 320-346.	1.8	39
9	Dynamics of deep submarine silicic explosive eruptions in the Kermadec arc, as reflected in pumice vesicularity textures. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 301, 314-332.	2.1	38
10	Post-caldera volcanism reveals shallow priming of an intra-ocean arc andesitic caldera: Hunga volcano, Tonga, SW Pacific. <i>Lithos</i> , 2022, 412-413, 106614.	1.4	38
11	New Volcanic Island Unveils Explosive Past. <i>Eos</i> , 2017, , .	0.1	37
12	Highly vesicular pumice generated by buoyant detachment of magma in subaqueous volcanism. <i>Nature Geoscience</i> , 2013, 6, 129-132.	12.9	34
13	Contrasting pyroclast density spectra from subaerial and submarine silicic eruptions in the Kermadec arc: implications for eruption processes and dredge sampling. <i>Bulletin of Volcanology</i> , 2012, 74, 1425-1443.	3.0	28
14	No single model for supersized eruptions and their magma bodies. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 610-627.	29.7	25
15	Bubble development in explosive silicic eruptions: insights from pyroclast vesicularity textures from Raoul volcano (Kermadec arc). <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	23
16	Volcanic Unrest at Taupō Volcano in 2019: Causes, Mechanisms and Implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009803.	2.5	21
17	Modeling Ash Dispersal From Future Eruptions of Taupo Supervolcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3375-3401.	2.5	18
18	Textural and micro-analytical insights into mafic–felsic interactions during the Oruanui eruption, Taupo. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	15

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19	Comment on "Rapid cooling and cold storage in a silicic magma reservoir recorded in individual crystals". <i>Science</i> , 2017, 358, .	12.6	13
20	The Origin of Rhyolitic Magmas at Krafla Central Volcano (Iceland). <i>Journal of Petrology</i> , 2021, 62, .	2.8	12
21	Earthquake Analysis Suggests Dyke Intrusion in 2019 Near Tarawera Volcano, New Zealand. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	11
22	Emplacement of unusual rhyolitic to basaltic ignimbrites during collapse of a basalt-dominated caldera: The Halarauur eruption, Krafla (Iceland). <i>Bulletin of the Geological Society of America</i> , 2020, 132, 1881-1902.	3.3	10
23	Crustal evolution leading to successive rhyolitic supereruptions in the Jemez Mountains volcanic field, New Mexico, USA. <i>Lithos</i> , 2021, 396-397, 106201.	1.4	8
24	Stretching, Shaking, Inflating: Volcanic-Tectonic Interactions at a Rifting Silicic Caldera. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	6
25	Taupuanflate: illustrating detection limits of magmatic inflation below Lake Taupau. <i>New Zealand Journal of Geology, and Geophysics</i> , 2023, 66, 571-588.	1.8	6
26	Tephrochronology and Provenance of an Early Pleistocene (Calabrian) Tephra From IODP Expedition 374 Site U1524, Ross Sea (Antarctica). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009739.	2.5	3
27	A comment on: magma residence and eruption at the Taupau Volcanic Center (Taupau Volcanic Zone, New Zealand) by AS PamukÅşu et al., <i>Contrib Mineral Petrol</i> 175:48 (2020). <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	3
28	Rifting and recharge as triggers of the mixed basaltic-rhyolite Halarauur ignimbrite eruption (Krafla).	3.1	3
29	Implications of a Supervolcano's Seismicity. <i>Eos</i> , 2020, 101, .	0.1	2
30	Reply to 'Magma balloons or bombs?'. <i>Nature Geoscience</i> , 2013, 6, 803-803.	12.9	0