

# Olivier Bachmann

## List of Publications by Citations

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152  
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9,306  
ext. citations

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#	Paper	IF	Citations
152	On the Origin of Crystal-poor Rhyolites: Extracted from Batholithic Crystal Mushes. <i>Journal of Petrology</i> , <b>2004</b> , 45, 1565-1582	3.9	563
151	The Fish Canyon Magma Body, San Juan Volcanic Field, Colorado: Rejuvenation and Eruption of an Upper-Crustal Batholith. <i>Journal of Petrology</i> , <b>2002</b> , 43, 1469-1503	3.9	276
150	Rhyolites and their Source Mushes across Tectonic Settings. <i>Journal of Petrology</i> , <b>2008</b> , 49, 2277-2285	3.9	265
149	How important is the role of crystal fractionation in making intermediate magmas? Insights from Zr and P systematics. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 393, 266-274	5.3	225
148	Gas percolation in upper-crustal silicic crystal mushes as a mechanism for upward heat advection and rejuvenation of near-solidus magma bodies. <i>Journal of Volcanology and Geothermal Research</i> , <b>2006</b> , 149, 85-102	2.8	213
147	Quantum magmatism: Magmatic compositional gaps generated by melt-crystal dynamics. <i>Geology</i> , <b>2010</b> , 38, 687-690	5	209
146	The volcanic-plutonic connection as a stage for understanding crustal magmatism. <i>Journal of Volcanology and Geothermal Research</i> , <b>2007</b> , 167, 1-23	2.8	204
145	Silicic magma reservoirs in the Earth's crust. <i>American Mineralogist</i> , <b>2016</b> , 101, 2377-2404	2.9	186
144	Lattice Boltzmann model for melting with natural convection. <i>International Journal of Heat and Fluid Flow</i> , <b>2008</b> , 29, 1469-1480	2.4	185
143	The Magma Reservoirs That Feed Supereruptions. <i>Elements</i> , <b>2008</b> , 4, 17-21	3.8	179
142	Homogenization processes in silicic magma chambers by stirring and mushification (latent heat buffering). <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 283, 38-47	5.3	147
141	On the longevity of large upper crustal silicic magma reservoirs. <i>Geology</i> , <b>2013</b> , 41, 759-762	5	146
140	Controls on explosive-effusive volcanic eruption styles. <i>Nature Communications</i> , <b>2018</b> , 9, 2839	17.4	141
139	Insights into shallow magmatic processes in large silicic magma bodies: the trace element record in the Fish Canyon magma body, Colorado. <i>Contributions To Mineralogy and Petrology</i> , <b>2005</b> , 149, 338-349	3.5	137
138	Rejuvenation of the Fish Canyon magma body: A window into the evolution of large-volume silicic magma systems. <i>Geology</i> , <b>2003</b> , 31, 789	5	131
137	Pore-scale mass and reactant transport in multiphase porous media flows. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 686, 40-76	3.7	119
136	Temperature-induced Al -zoning in hornblendes of the Fish Canyon magma, Colorado. <i>American Mineralogist</i> , <b>2002</b> , 87, 1062-1076	2.9	115

135	Ignimbrites to batholiths: Integrating perspectives from geological, geophysical, and geochronological data <b>2015</b> , 11, 705-743		113
134	Bubble accumulation and its role in the evolution of magma reservoirs in the upper crust. <i>Nature</i> , <b>2016</b> , 532, 492-5	50.4	113
133	Trace element indicators of crystal accumulation in silicic igneous rocks. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 297, 324-331	5.3	112
132	Lifetime and size of shallow magma bodies controlled by crustal-scale magmatism. <i>Nature Geoscience</i> , <b>2017</b> , 10, 446-450	18.3	106
131	Identifying the crystal graveyards remaining after large silicic eruptions. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 403, 299-306	5.3	103
130	Zircon crystallization and recycling in the magma chamber of the rhyolitic Kos Plateau Tuff (Aegean arc). <i>Geology</i> , <b>2007</b> , 35, 73	5	102
129	$^{40}\text{Ar}/^{39}\text{Ar}$ and $\text{U}/\text{Pb}$ dating of the Fish Canyon magmatic system, San Juan Volcanic field, Colorado: Evidence for an extended crystallization history. <i>Chemical Geology</i> , <b>2007</b> , 236, 134-166	4.2	100
128	Crystal-poor versus crystal-rich ignimbrites: A competition between stirring and reactivation. <i>Geology</i> , <b>2012</b> , 40, 115-118	5	95
127	Synchrotron X-ray microtomography and lattice Boltzmann simulations of gas flow through volcanic pumices <b>2010</b> , 6, 470-481		93
126	Rift-Related Transition from Andesite to Rhyolite Volcanism in the Taupo Volcanic Zone (New Zealand) Controlled by Crystal Melt Dynamics in Mush Zones with Variable Mineral Assemblages. <i>Journal of Petrology</i> , <b>2011</b> , 52, 2243-2263	3.9	90
125	Zircon geochronology and geochemistry to constrain the youngest eruption events and magma evolution of the Mid-Miocene ignimbrite flare-up in the Pannonian Basin, eastern central Europe. <i>Contributions To Mineralogy and Petrology</i> , <b>2015</b> , 170, 1	3.5	87
124	Thermo-mechanical reactivation of locked crystal mushes: Melting-induced internal fracturing and assimilation processes in magmas. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 304, 443-454	5.3	86
123	Pre-eruptive reheating during magma mixing at Quizapu volcano and the implications for the explosiveness of silicic arc volcanoes. <i>Geology</i> , <b>2010</b> , 38, 919-922	5	86
122	Cumulate fragments in silicic ignimbrites: The case of the Snake River Plain. <i>Geology</i> , <b>2014</b> , 42, 431-434	5	80
121	Remelting of cumulates as a process for producing chemical zoning in silicic tuffs: A comparison of cool, wet and hot, dry rhyolitic magma systems. <i>Lithos</i> , <b>2015</b> , 236-237, 275-286	2.9	76
120	Comagmatic granophyric granite in the Fish Canyon Tuff, Colorado: Implications for magma-chamber processes during a large ash-flow eruption. <i>Geology</i> , <b>1997</b> , 25, 915	5	74
119	LA-ICP-MS $\text{Pb}/\text{U}$ dating of young zircons from the Kos $\mu$ isyros volcanic centre, SE Aegean arc. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2014</b> , 29, 963-970	3.7	73
118	Protracted near-solidus storage and pre-eruptive rejuvenation of large magma reservoirs. <i>Nature Geoscience</i> , <b>2017</b> , 10, 777-782	18.3	73

117	The effects of outgassing on the transition between effusive and explosive silicic eruptions. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 349-350, 161-170	5.3	71
116	Evolution of silicic magmas in the Kos-Nisyros volcanic center, Greece: a petrological cycle associated with caldera collapse. <i>Contributions To Mineralogy and Petrology</i> , <b>2012</b> , 163, 151-166	3.5	70
115	Controls on magma permeability in the volcanic conduit during the climactic phase of the Kos Plateau Tuff eruption (Aegean Arc). <i>Bulletin of Volcanology</i> , <b>2010</b> , 72, 63-74	2.4	68
114	Earth's earliest granitoids are crystal-rich magma reservoirs tapped by silicic eruptions. <i>Nature Geoscience</i> , <b>2020</b> , 13, 163-169	18.3	64
113	Characterization of juvenile pyroclasts from the Kos Plateau Tuff (Aegean Arc): insights into the eruptive dynamics of a large rhyolitic eruption. <i>Bulletin of Volcanology</i> , <b>2009</b> , 71, 643-658	2.4	63
112	The Upper Crustal Evolution of a Large Silicic Magma Body: Evidence from Crystal-scale Rb/Bs Isotopic Heterogeneities in the Fish Canyon Magmatic System, Colorado. <i>Journal of Petrology</i> , <b>2007</b> , 48, 1875-1894	3.9	63
111	Zircon record of the plutonic-volcanic connection and protracted rhyolite melt evolution. <i>Geology</i> , <b>2016</b> , 44, 267-270	5	62
110	Two Competing Effects of Volatiles on Heat Transfer in Crystal-rich Magmas: Thermal Insulation vs Defrosting. <i>Journal of Petrology</i> , <b>2010</b> , 51, 847-867	3.9	62
109	A composition-independent quantitative determination of the water content in silicate glasses and silicate melt inclusions by confocal Raman spectroscopy. <i>Contributions To Mineralogy and Petrology</i> , <b>2005</b> , 150, 631-642	3.5	61
108	A physical model for metal extraction and transport in shallow magmatic systems. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13, n/a-n/a	3.6	56
107	Mush microphysics and the reactivation of crystal-rich magma reservoirs. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 6308-6322	3.6	51
106	Magma reservoir response to transient recharge events: The case of Santorini volcano (Greece). <i>Geology</i> , <b>2016</b> , 44, 23-26	5	48
105	Extraction, Storage and Eruption of Multiple Isolated Magma Batches in the Paired Mamaku and Ohakuri Eruption, Taupo Volcanic Zone, New Zealand. <i>Journal of Petrology</i> , <b>2014</b> , 55, 1653-1684	3.9	48
104	Early to Mid-Miocene syn-extensional massive silicic volcanism in the Pannonian Basin (East-Central Europe): Eruption chronology, correlation potential and geodynamic implications. <i>Earth-Science Reviews</i> , <b>2018</b> , 179, 1-19	10.2	47
103	The mechanics of shallow magma reservoir outgassing. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 2887-2905	3.6	47
102	Deciphering Magma Chamber Dynamics from Styles of Compositional Zoning in Large Silicic Ash Flow Sheets. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2008</b> , 69, 651-674	7.1	47
101	The Inner Workings of Crustal Distillation Columns; the Physical Mechanisms and Rates Controlling Phase Separation in Silicic Magma Reservoirs. <i>Journal of Petrology</i> , <b>2019</b> , 60, 3-18	3.9	46
100	Voluminous lava-like precursor to a major ash-flow tuff: low-column pyroclastic eruption of the Pagosa Peak Dacite, San Juan volcanic field, Colorado. <i>Journal of Volcanology and Geothermal Research</i> , <b>2000</b> , 98, 153-171	2.8	45

99	Optimal depth of subvolcanic magma chamber growth controlled by volatiles and crust rheology. <i>Nature Geoscience</i> , <b>2019</b> , 12, 762-768	18.3	43
98	Building zoned ignimbrites by recycling silicic cumulates: insight from the 1,000 km <sup>3</sup> Carpenter Ridge Tuff, CO. <i>Contributions To Mineralogy and Petrology</i> , <b>2014</b> , 167, 1	3.5	43
97	The origin of a zoned ignimbrite: Insights into the Campanian Ignimbrite magma chamber (Campi Flegrei, Italy). <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 449, 259-271	5.3	41
96	The Ammonia Tanks Tuff: Erupting a melt-rich rhyolite cap and its remobilized crystal cumulate. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 310, 518-525	5.3	40
95	How do olivines record magmatic events? Insights from major and trace element zoning. <i>Contributions To Mineralogy and Petrology</i> , <b>2016</b> , 171, 1	3.5	39
94	An integrated P-T-H <sub>2</sub> O-lattice strain model to quantify the role of clinopyroxene fractionation on REE+Y and HFSE patterns of mafic alkaline magmas: Application to eruptions at Mt. Etna. <i>Earth-Science Reviews</i> , <b>2018</b> , 185, 32-56	10.2	39
93	A K-feldspar liquid hygrometer specific to alkaline differentiated magmas. <i>Chemical Geology</i> , <b>2015</b> , 392, 1-8	4.2	38
92	The melt inclusion record from the rhyolitic Kos Plateau Tuff (Aegean Arc). <i>Contributions To Mineralogy and Petrology</i> , <b>2010</b> , 159, 187-202	3.5	36
91	Long-term magmatic evolution reveals the beginning of a new caldera cycle at Campi Flegrei. <i>Science Advances</i> , <b>2018</b> , 4, eaat9401	14.3	36
90	The limitations of melting on the reactivation of silicic mushes. <i>Journal of Volcanology and Geothermal Research</i> , <b>2010</b> , 195, 97-105	2.8	35
89	Characterization of tephra deposits with limited exposure: the example of the two largest explosive eruptions at Nisyros volcano (Greece). <i>Bulletin of Volcanology</i> , <b>2011</b> , 73, 1337-1352	2.4	32
88	Eruption of Shallow Crystal Cumulates during Explosive Phonolitic Eruptions on Tenerife, Canary Islands. <i>Journal of Petrology</i> , <b>2015</b> , 56, 2173-2194	3.9	30
87	The pace of crustal-scale magma accretion and differentiation beneath silicic caldera volcanoes. <i>Geology</i> , <b>2019</b> , 47, 719-723	5	29
86	In defense of magnetite-ilmenite thermometry in the Bishop Tuff and its implication for gradients in silicic magma reservoirs. <i>American Mineralogist</i> , <b>2016</b> , 101, 469-482	2.9	28
85	Bridging basalts and rhyolites in the Yellowstone Snake River Plain volcanic province: The elusive intermediate step. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 415, 80-89	5.3	28
84	Petrological Insights into Shifts in Eruptive Styles at Volcā Llaima (Chile). <i>Journal of Petrology</i> , <b>2013</b> , 54, 393-420	3.9	27
83	Letter: Implications of equilibrium and disequilibrium among crystal phases in the Bishop Tuff. <i>American Mineralogist</i> , <b>2013</b> , 98, 271-274	2.9	27
82	Improved accuracy of LA-ICP-MS U-Pb ages of Cenozoic zircons by alpha dose correction. <i>Chemical Geology</i> , <b>2017</b> , 472, 8-21	4.2	26

81	Influence of Exsolved Volatiles on Reheating Silicic Magmas by Recharge and Consequences for Eruptive Style at Volcā Quizapu (Chile). <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 4123-4135	3.6	24
80	Isotope-dilution anchoring of zircon reference materials for accurate Ti-in-zircon thermometry. <i>Chemical Geology</i> , <b>2018</b> , 481, 146-154	4.2	24
79	Magma Chamber Growth During Intercaldera Periods: Insights From Thermo-Mechanical Modeling With Applications to Laguna del Maule, Campi Flegrei, Santorini, and Aso. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 1574-1591	3.6	23
78	Detrital zircon ages from the Ross Supergroup, north Victoria Land, Antarctica: Implications for the tectonostratigraphic evolution of the Pacific-Gondwana margin. <i>Gondwana Research</i> , <b>2016</b> , 35, 79-96	5.1	22
77	Partitioning and isotopic fractionation of lithium in mineral phases of hot, dry rhyolites: The case of the Mesa Falls Tuff, Yellowstone. <i>Chemical Geology</i> , <b>2019</b> , 506, 175-186	4.2	22
76	The role of magma mixing/mingling and cumulate melting in the Neapolitan Yellow Tuff caldera-forming eruption (Campi Flegrei, Southern Italy). <i>Contributions To Mineralogy and Petrology</i> , <b>2018</b> , 173, 1	3.5	21
75	Late-stage magma flow in a shallow felsic reservoir: Merging the anisotropy of magnetic susceptibility record with numerical simulations in La Gloria Pluton, central Chile. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 1984-1998	3.6	21
74	Post-caldera Volcanism at the Heise Volcanic Field: Implications for Petrogenetic Models. <i>Journal of Petrology</i> , <b>2017</b> , 58, 115-136	3.9	20
73	Formation of rhyolite at the Okataina Volcanic Complex, New Zealand: New insights from analysis of quartz clusters in plutonic lithics. <i>American Mineralogist</i> , <b>2015</b> , 100, 1778-1789	2.9	20
72	Evolution of the Taupo Volcanic Center, New Zealand: petrological and thermal constraints from the Omega dacite. <i>Contributions To Mineralogy and Petrology</i> , <b>2013</b> , 166, 1355-1374	3.5	20
71	Post-eruptive mobility of lithium in volcanic rocks. <i>Nature Communications</i> , <b>2018</b> , 9, 3228	17.4	20
70	Erupted cumulate fragments in rhyolites from Lipari (Aeolian Islands). <i>Contributions To Mineralogy and Petrology</i> , <b>2015</b> , 170, 1	3.5	19
69	How do volatiles escape their shallow magmatic hearth?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180017	3	18
68	New petrological constraints on the last eruptive phase of the Sabatini Volcanic District (central Italy): Clues from mineralogy, geochemistry, and SrNd isotopes. <i>Lithos</i> , <b>2014</b> , 205, 28-38	2.9	17
67	Diffuse emission of CO <sub>2</sub> and convective heat release at Nisyros caldera (Greece). <i>Journal of Volcanology and Geothermal Research</i> , <b>2019</b> , 376, 44-53	2.8	16
66	The dark side of zircon: textural, age, oxygen isotopic and trace element evidence of fluid saturation in the subvolcanic reservoir of the Island Park-Mount Jackson Rhyolite, Yellowstone (USA). <i>Contributions To Mineralogy and Petrology</i> , <b>2018</b> , 173, 1	3.5	16
65	Wild European apple ( <i>Malus sylvestris</i> (L.) Mill.) population dynamics: insight from genetics and ecology in the Rhine Valley. Priorities for a future conservation programme. <i>PLoS ONE</i> , <b>2014</b> , 9, e96596	3.7	16
64	Low- $\delta^{18}\text{O}$ silicic magmas on Earth: A review. <i>Earth-Science Reviews</i> , <b>2020</b> , 208, 103299	10.2	16



63	U-Th Zircon Dating by Laser Ablation Single Collector Inductively Coupled Plasma-Mass Spectrometry (LA-ICP-MS). <i>Geostandards and Geoanalytical Research</i> , <b>2016</b> , 40, 377-387	3.6	16
62	Comparing magnetic and magmatic fabrics to constrain the magma flow record in La Gloria pluton, central Chile. <i>Journal of Structural Geology</i> , <b>2014</b> , 69, 32-46	3	15
61	Permeability measurements of Campi Flegrei pyroclastic products: An example from the Campanian Ignimbrite and Monte Nuovo eruptions. <i>Journal of Volcanology and Geothermal Research</i> , <b>2014</b> , 272, 16-22	2.8	15
60	The effect of prior hydrothermal alteration on the melting behaviour during rhyolite formation in Yellowstone, and its importance in the generation of low- $\delta^{18}\text{O}$ magmas. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 481, 338-349	5.3	15
59	Deep into magma plumbing systems: Interrogating the crystal cargo of volcanic deposits. <i>Geology</i> , <b>2018</b> , 46, 415-418	5	15
58	Split-grain $^{40}\text{Ar}/^{39}\text{Ar}$ dating: Integrating temporal and geochemical data from crystal cargoes. <i>Chemical Geology</i> , <b>2017</b> , 457, 15-23	4.2	14
57	Maturation and rejuvenation of a silicic magma reservoir: High-resolution chronology of the Kneeling Nun Tuff. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 510, 103-115	5.3	14
56	Evidence for a persistent magma reservoir with large melt content beneath an apparently extinct volcano. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 521, 79-90	5.3	14
55	Olivine compositional changes in primitive magmatic skarn environments: A reassessment of divalent cation partitioning models to quantify the effect of carbonate assimilation. <i>Lithos</i> , <b>2018</b> , 316-317, 104-121	2.9	14
54	Evidence for a spike in mantle carbon outgassing during the Ediacaran period. <i>Nature Geoscience</i> , <b>2017</b> , 10, 930-934	18.3	14
53	A connection between magma chamber processes and eruptive styles revealed at Nisyros-Yali volcano (Greece). <i>Journal of Volcanology and Geothermal Research</i> , <b>2019</b> , 387, 106666	2.8	13
52	Crystallization and partial melting of rhyolite and felsite rocks at Krafla volcano: A comparative approach based on mineral and glass chemistry of natural and experimental products. <i>Chemical Geology</i> , <b>2018</b> , 483, 603-618	4.2	13
51	The genesis of arc dacites: the case of Mount St. Helens, WA. <i>Contributions To Mineralogy and Petrology</i> , <b>2019</b> , 174, 1	3.5	13
50	Controls on lithium concentration and diffusion in zircon. <i>Chemical Geology</i> , <b>2018</b> , 501, 1-11	4.2	13
49	Thermal and petrologic constraints on lower crustal melt accumulation under the Salton Sea Geothermal Field. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 467, 10-17	5.3	12
48	Petrological constraints on the high-Mg basalts from Capo Marargiu (Sardinia, Italy): Evidence of cryptic amphibole fractionation in polybaric environments. <i>Journal of Volcanology and Geothermal Research</i> , <b>2018</b> , 349, 31-46	2.8	12
47	A continental arc tempo discovered in the Pacific-Gondwana margin mudpile?. <i>Geology</i> , <b>2016</b> , 44, 915-918		12
46	Melt and fluid evolution in an upper-crustal magma reservoir, preserved by inclusions in juvenile clasts from the Kos Plateau Tuff, Aegean Arc, Greece. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 280, 237-262	5.5	11

45	Geochronological and isotopic records of crustal storage and assimilation in the Wolverine Creek-Conant Creek system, Heise eruptive centre, Snake River Plain. <i>Contributions To Mineralogy and Petrology</i> , <b>2016</b> , 171, 1	3.5	11
44	Comment on Zircon U-Th-Pb dating using LA-ICP-MS: Simultaneous U-Pb and U-Th dating on 0.1Ma Toya Tephra, Japan by Hisatoshi Ito. <i>Journal of Volcanology and Geothermal Research</i> , <b>2015</b> , 296, 101-103	2.8	9
43	Effusive-explosive transitions of water-undersaturated magmas. The case study of Methana Volcano, South Aegean Arc. <i>Journal of Volcanology and Geothermal Research</i> , <b>2020</b> , 399, 106884	2.8	9
42	Sulfur diffusion in dacitic melt at various oxidation states: Implications for volcanic degassing. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 226, 50-68	5.5	9
41	New detrital zircon age and trace element evidence for 1450 Ma igneous zircon sources in East Antarctica. <i>Precambrian Research</i> , <b>2017</b> , 300, 53-58	3.9	9
40	Geochemical and petrological diversity of mafic magmas from Mount St. Helens. <i>Contributions To Mineralogy and Petrology</i> , <b>2019</b> , 174, 1	3.5	9
39	Snapshots of primitive arc magma evolution recorded by clinopyroxene textural and compositional variations: The case of hybrid crystal-rich enclaves from Capo Marargiu Volcanic District (Sardinia, Italy). <i>American Mineralogist</i> , <b>2018</b> , 103, 899-910	2.9	9
38	The use of biotite trace element compositions for fingerprinting magma batches at Las Cañadas volcano, Tenerife. <i>Bulletin of Volcanology</i> , <b>2017</b> , 79, 1	2.4	8
37	Rapid Magma Generation or Shared Magmatic Reservoir? Petrology and Geochronology of the Rat Creek and Nelson Mountain Tuffs, CO, USA. <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	8
36	Origin of the compositional diversity in the basalt-to-dacite series erupted along the Heiðrsparkur ridge, NE Iceland. <i>Journal of Volcanology and Geothermal Research</i> , <b>2015</b> , 301, 116-127	2.8	8
35	Genesis of rhyolitic melts in the upper crust: Fractionation and remobilization of an intermediate cumulate at Lake City caldera, Colorado, USA. <i>Journal of Volcanology and Geothermal Research</i> , <b>2020</b> , 392, 106750	2.8	8
34	The role of crystallization-driven exsolution on the sulfur mass balance in volcanic arc magmas. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 5624-5640	3.6	8
33	LA-ICP-MS and SIMS U-Pb and U-Th zircon geochronological data of Late Pleistocene lava domes of the Ciomadul Volcanic Dome Complex (Eastern Carpathians). <i>Data in Brief</i> , <b>2018</b> , 18, 808-813	1.2	7
32	U-Th zircon dating reveals a correlation between eruptive styles and repose periods at the Nisyros-Yali volcanic area, Greece. <i>Chemical Geology</i> , <b>2020</b> , 555, 119830	4.2	7
31	Water exsolution in the magma chamber favors effusive eruptions: Application of Cl-F partitioning behavior at the Nisyros-Yali volcanic area. <i>Chemical Geology</i> , <b>2021</b> , 570, 120170	4.2	7
30	Modeling the Crystallization and Emplacement Conditions of a Basaltic Trachyandesitic Sill at Mt. Etna Volcano. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 126	2.4	6
29	Integrated magnetotelluric and petrological analysis of felsic magma reservoirs: Insights from Ethiopian rift volcanoes. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 559, 116765	5.3	6
28	Volatile budget of Tenerife phonolites inferred from textural zonation of S-rich halogen. <i>Geology</i> , <b>2015</b> , 43, 423-426	5	5



27	Insights into the complex in the Danube floodplain (Austria). <i>Ecology and Evolution</i> , <b>2017</b> , 7, 7796-7806	2.8	5
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15	Zircon geochronology suggests a long-living and active magmatic system beneath the Ciomadul volcanic dome field (eastern-central Europe). <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 565, 116965	5.3	3
14	Novel microsatellite loci for <i>Sebaea aurea</i> (Gentianaceae) and cross-amplification in related species. <i>Applications in Plant Sciences</i> , <b>2013</b> , 1, 1300056	2.3	2
13	Explosive or effusive style of volcanic eruption determined by magma storage conditions. <i>Nature Geoscience</i> , <b>2021</b> , 14, 781-786	18.3	2
12	Magma reservoir evolution during the build up to and recovery from caldera-forming eruptions [A generalizable model?]. <i>Earth-Science Reviews</i> , <b>2021</b> , 218, 103684	10.2	2
11	Early Earth zircons formed in residual granitic melts produced by tonalite differentiation. <i>Geology</i> , <b>2022</b> , 50, 437-441	5	2
10	Evolution from magmatic to hydrothermal activity beneath the Cerro Escorial volcano (NW Argentina) as sampled by erupted quartz and brines. <i>Lithos</i> , <b>2020</b> , 374-375, 105706	2.9	1

9	Crustal thickness, rift-drift and potential links to key global events. <i>Terra Nova</i> , <b>2021</b> , 33, 12-20	3	1
8	Radiogenic $^{40}\text{Ca}$ in Seawater: Implications for Modern and Ancient Ca Cycles. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 2481-2492	3.2	1
7	Garnet petrochronology reveals the lifetime and dynamics of phonolitic magma chambers at Somma-Vesuvius.. <i>Science Advances</i> , <b>2022</b> , 8, eabk2184	14.3	0
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1	Early Earth zircons formed in residual granitic melts produced by tonalite differentiation: REPLY. <i>Geology</i> , <b>2022</b> , 50, e553-e553	5	