

Georg Zellmer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/215594/publications.pdf>

Version: 2024-02-01

69
papers

3,026
citations

159358

30
h-index

161609

54
g-index

82
all docs

82
docs citations

82
times ranked

2469
citing authors

#	ARTICLE	IF	CITATIONS
1	Submarine hydrothermal activity and gold-rich mineralization at Brothers Volcano, Kermadec Arc, New Zealand. <i>Mineralium Deposita</i> , 2011, 46, 541-584.	1.7	219
2	Time Scales of Crystal Fractionation in Magma Chambers – Integrating Physical, Isotopic and Geochemical Perspectives. <i>Journal of Petrology</i> , 2000, 41, 991-1006.	1.1	197
3	Formation of hybrid arc andesites beneath thick continental crust. <i>Earth and Planetary Science Letters</i> , 2011, 303, 337-347.	1.8	184
4	Plagioclase residence times at two island arc volcanoes (Kameni Islands, Santorini, and Soufriere, St.) <i>Journal of Petrology</i> , 2000, 41, 345-357.	1.2	149
5	Magma Emplacement and Remobilization Timescales Beneath Montserrat: Insights from Sr and Ba Zonation in Plagioclase Phenocrysts. <i>Journal of Petrology</i> , 2003, 44, 1413-1431.	1.1	136
6	The role of Fe–Ti oxide crystallization in the formation of A-type granitoids with implications for the Daly gap: An example from the Permian Baima igneous complex, SW China. <i>Chemical Geology</i> , 2009, 259, 204-217.	1.4	130
7	Timescales of destructive plate margin magmatism: new insights from Santorini, Aegean volcanic arc. <i>Earth and Planetary Science Letters</i> , 2000, 174, 265-281.	1.8	118
8	Time scales of magmatic processes. <i>Earth and Planetary Science Letters</i> , 2004, 218, 1-16.	1.8	115
9	Geochemical Evolution of the Soufriere Hills Volcano, Montserrat, Lesser Antilles Volcanic Arc. <i>Journal of Petrology</i> , 2003, 44, 1349-1374.	1.1	113
10	Some remarks on U–Th mineral ages from igneous rocks with prolonged crystallisation histories. <i>Earth and Planetary Science Letters</i> , 2000, 183, 457-469.	1.8	78
11	Magma evolution and ascent at volcanic arcs: constraining petrogenetic processes through rates and chronologies. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 140, 171-191.	0.8	78
12	Volcanic arcs as archives of plate tectonic change. <i>Gondwana Research</i> , 2012, 21, 495-516.	3.0	70
13	Three Fe-Ti oxide ore-bearing gabbro-granitoid complexes in the Panxi region of the Permian Emeishan large igneous province, SW China. <i>Numerische Mathematik</i> , 2011, 311, 773-812.	0.7	67
14	Crustal recycling by subduction erosion in the central Mexican Volcanic Belt. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 29-52.	1.6	65
15	Time-scales of magma formation, ascent and storage beneath subduction-zone volcanoes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 1443-1464.	1.6	62
16	Lower crustal H ₂ O controls on the formation of adakitic melts. <i>Geology</i> , 2012, 40, 487-490.	2.0	62
17	On the recent bimodal magmatic processes and their rates in the Torfajökull–Veidivátn area, Iceland. <i>Earth and Planetary Science Letters</i> , 2008, 269, 388-398.	1.8	60
18	Deposits, character and timing of recent eruptions and gravitational collapses in Tatun Volcanic Group, Northern Taiwan: Hazard-related issues. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 191, 205-221.	0.8	57

#	ARTICLE	IF	CITATIONS
19	Arc dacite genesis pathways: Evidence from mafic enclaves and their hosts in Aegean lavas. <i>Lithos</i> , 2007, 95, 346-362.	0.6	56
20	Volatiles in subduction zone magmatism. <i>Geological Society Special Publication</i> , 2015, 410, 1-17.	0.8	54
21	Using trace element correlation patterns to decipher a sanidine crystal growth chronology: An example from Taapaca volcano, Central Andes. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 156, 291-301.	0.8	51
22	The Processes of Melt Differentiation in Arc Volcanic Rocks: Insights from OIB-type Arc Magmas in the Central Mexican Volcanic Belt. <i>Journal of Petrology</i> , 2013, 54, 665-701.	1.1	51
23	Multiple mantle sources of continental magmatism: Insights from high-Ti picrites of Karoo and other large igneous provinces. <i>Chemical Geology</i> , 2017, 455, 22-31.	1.4	41
24	The Deccan tholeiite lavas and dykes of Ghatkoparâ€“Powai area, Mumbai, Panvel flexure zone: Geochemistry, stratigraphic status, and tectonic significance. <i>Journal of Asian Earth Sciences</i> , 2014, 84, 69-82.	1.0	40
25	Rapid cooling rates at an active mid-ocean ridge from zircon thermochronology. <i>Earth and Planetary Science Letters</i> , 2011, 302, 349-358.	1.8	38
26	An introduction to orogenic andesites and crustal growth. <i>Geological Society Special Publication</i> , 2014, 385, 1-13.	0.8	38
27	Petrogenesis of antecryst-bearing arc basalts from the Trans-Mexican Volcanic Belt: Insights into along-arc variations in magma-mush ponding depths, H ₂ O contents, and surface heat flux. <i>American Mineralogist</i> , 2016, 101, 2405-2422.	0.9	38
28	Geochemistry of the Palitana flood basalt sequence and the Eastern Saurashtra dykes, Deccan Traps: clues to petrogenesis, dykeâ€“flow relationships, and regional lava stratigraphy. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	1.1	37
29	Fumarole compositions and mercury emissions from the Tatun Volcanic Field, Taiwan: Results from multi-component gas analyser, portable mercury spectrometer and direct sampling techniques. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 636-643.	0.8	35
30	Weka Trainable Segmentation Plugin in ImageJ: A Semi-Automatic Tool Applied to Crystal Size Distributions of Microlites in Volcanic Rocks. <i>Microscopy and Microanalysis</i> , 2018, 24, 667-675.	0.2	34
31	A genetic link between silicic slab components and calc-alkaline arc volcanism in central Mexico. <i>Geological Society Special Publication</i> , 2014, 385, 31-64.	0.8	32
32	Crystal uptake into aphyric arc melts: insights from two-pyroxene pseudo-decompression paths, plagioclase hygrometry, and measurement of hydrogen in olivines from mafic volcanics of SW Japan. <i>Geological Society Special Publication</i> , 2014, 385, 161-184.	0.8	31
33	Gaining acuity on crystal terminology in volcanic rocks. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	1.1	30
34	Some first-order observations on magma transfer from mantle wedge to upper crust at volcanic arcs. <i>Geological Society Special Publication</i> , 2008, 304, 15-31.	0.8	28
35	On progress and rate of the peritectic reaction Fo + SiO ₂ + En in natural andesitic arc magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 383-393.	1.6	28
36	Phreatomagmatic and water-influenced Strombolian eruptions of a small-volume parasitic cone complex on the southern ringplain of Mt. Ruapehu, New Zealand: Facies architecture and eruption mechanisms of the Ohakune Volcanic Complex controlled by an unstable fissure eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 99-115.	0.8	25

#	ARTICLE	IF	CITATIONS
37	Petrogenesis of Sr-rich adakitic rocks at volcanic arcs: insights from global variations of eruptive style with plate convergence rates and surface heat flux. <i>Journal of the Geological Society</i> , 2009, 166, 725-734.	0.9	24
38	Crystal growth during dike injection of MOR basaltic melts: evidence from preservation of local Sr disequilibria in plagioclase. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 153-173.	1.2	24
39	Remobilization of granitoid rocks through mafic recharge: evidence from basalt-trachyte mingling and hybridization in the Manoriâ€“Gorai area, Mumbai, Deccan Traps. <i>Bulletin of Volcanology</i> , 2012, 74, 47-66.	1.1	24
40	An introduction to magma dynamics. <i>Geological Society Special Publication</i> , 2008, 304, 1-13.	0.8	23
41	Is gold solubility subject to pressure variations in ascending arc magmas?. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 224-243.	1.6	23
42	High-Mg andesite genesis by upper crustal differentiation. <i>Journal of the Geological Society</i> , 2010, 167, 1081-1088.	0.9	22
43	Magma Genesis at the South Aegean Volcanic Arc. <i>Elements</i> , 2019, 15, 165-170.	0.5	22
44	Inferring the Effects of Compositional Boundary Layers on Crystal Nucleation, Growth Textures, and Mineral Chemistry in Natural Volcanic Tephra through Submicron-Resolution Imaging. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	17
45	Genesis of Recent Mafic Magmatism in the Taupo Volcanic Zone, New Zealand: Insights into the Birth and Death of Very Large Volume Rhyolitic Systems?. <i>Journal of Petrology</i> , 2020, 61, .	1.1	16
46	Mush, Melts and Metasediments: a History of Rhyolites from the Okataina Volcanic Centre, New Zealand, as Captured in Plagioclase. <i>Journal of Petrology</i> , 2021, 62, .	1.1	13
47	Generation of calc-alkaline andesite of the Tatun volcanic group (Taiwan) within an extensional environment by crystal fractionation. <i>International Geology Review</i> , 2014, 56, 1156-1171.	1.1	12
48	Resolving discordant Uâ€“Thâ€“Ra ages: constraints on petrogenetic processes of recent effusive eruptions at Tatun Volcano Group, northern Taiwan. <i>Geological Society Special Publication</i> , 2015, 422, 175-188.	0.8	12
49	Rates and processes of crystallization in on-axis and off-axis MOR basaltic melts. <i>Lithos</i> , 2012, 154, 1-15.	0.6	11
50	Magma Transfer Processes in the NE Japan Arc: Insights From Crustal Ambient Noise Tomography Combined With Volcanic Eruption Records. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	11
51	Slow Ascent of Unusually Hot Intermediate Magmas Triggering Strombolian to Sub-Plinian Eruptions. <i>Journal of Petrology</i> , 2021, 61, .	1.1	11
52	Altered mineral uptake into fresh arc magmas: insights from Uâ€“Th isotopes of samples from Andean volcanoes under differential crustal stress regimes. <i>Geological Society Special Publication</i> , 2014, 385, 185-208.	0.8	10
53	Reply to Comment on â€œOn the recent bimodal magmatic processes and their rates in the Torfaj�kull�“Veidiv�tn area, Icelandâ€“by K.M. Cooper. <i>Earth and Planetary Science Letters</i> , 2009, 281, 115-123.	1.8	9
54	Variable magma reservoir depths for Tongariro Volcanic Complex eruptive deposits from 10,000�years to present. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	9

#	ARTICLE	IF	CITATIONS
55	Maar-diatreme volcanism relating to the pyroclastic sequence of a newly discovered high-alumina basalt in the Maroa Volcanic Centre, Taupo Volcanic Zone, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 363-370.	0.8	8
56	Shallow magmatic processes revealed by cryptic microantecrysts: a case study from the Taupo Volcanic Zone. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	8
57	Interaction of arc magmas with subvolcanic hydrothermal systems: insights from compositions and metasomatic textures of olivine crystals in fresh basalts of Daisen and Mengameyama, Western Honshu, Japan. <i>Geological Society Special Publication</i> , 2015, 410, 219-236.	0.8	6
58	The ion microprobe as a tool for obtaining strontium isotopes in magmatic plagioclase: A case study at Okataina Volcanic Centre, New Zealand. <i>Chemical Geology</i> , 2019, 513, 153-166.	1.4	6
59	Carbonaceous Aerosol Emitted from Biofuel Household Stove Combustion in South China. <i>Atmosphere</i> , 2020, 11, 112.	1.0	6
60	Petrogenetic implications of chromite-seeded boninite crystallization experiments: Providing a basis for chromite-melt diffusion chronometry in an oxybarometric context. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 297, 179-202.	1.6	5
61	Elucidating stratovolcano construction from volcanoclastic mass-flow deposits: The medial ring plain of Taranaki Volcano, New Zealand. <i>Sedimentology</i> , 2021, 68, 2422-2449.	1.6	5
62	Inter- and intra-crystal quartz $\delta^{18}O$ homogeneity at Okataina volcano, Aotearoa New Zealand: Implications for rhyolite genesis. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 421, 107430.	0.8	5
63	Estimating the time scales of magmatic processes. <i>Developments in Volcanology</i> , 2003, , 23-43.	0.5	4
64	Beyond crystal mushes: evidence for uptake of high-T pyroxene antecrysts from mid- to upper crustal andesites into tephra from the Central Plateau, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 443-455.	1.0	4
65	MushPEC: Correcting Post-entrapment Processes Affecting Melt Inclusions Hosted in Olivine Antecrysts. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	4
66	Deciphering magma storage and ascent processes of Taranaki, New Zealand, from the complexity of amphibole breakdown textures. <i>Lithos</i> , 2021, 398-399, 106264.	0.6	4
67	Combined Major and Trace Element LA-ICP-MS Analysis of Compositional Variations in Simple Solid Solutions through Cross Correlation with an EPMA-Characterized Working Standard. <i>Microscopy and Microanalysis</i> , 2012, 18, 852-859.	0.2	2
68	The Processes of Melt Differentiation in Arc Volcanic Rock: Insights from OIB-type Arc Magmas in the Central Mexican Volcanic Belt: Reply to a Critical Comment by Claus Siebe (2013). <i>Journal of Petrology</i> , 2013, 54, 1551-1554.	1.1	2
69	Rapid determination of initial $^{87}Sr/^{86}Sr$ and estimation of the Rb-Sr age of plutonic rocks by LA-ICPMS of variably altered feldspars: An example from the 1.14 Ga Great Abitibi Dyke, Ontario, Canada. <i>Lithos</i> , 2018, 314-315, 52-58.	0.6	2