

Zoltan Zajacz

List of Publications by Year in descending order

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69
papers

2,783
citations

172457

29
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182427

51
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all docs

69
docs citations

69
times ranked

2072
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of fluid/melt partition coefficients by LA-ICPMS analysis of co-existing fluid and silicate melt inclusions: Controls on element partitioning. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2169-2197.	3.9	368
2	Alkali metals control the release of gold from volatile-rich magmas. <i>Earth and Planetary Science Letters</i> , 2010, 297, 50-56.	4.4	116
3	The partitioning of sulfur and chlorine between andesite melts and magmatic volatiles and the exchange coefficients of major cations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 81-101.	3.9	116
4	Solubility and partitioning behavior of Au, Cu, Ag and reduced S in magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 288-304.	3.9	115
5	The solubility of copper in high-temperature magmatic vapors: A quest for the significance of various chloride and sulfide complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2811-2827.	3.9	114
6	Gold and copper in volatile saturated mafic to intermediate magmas: Solubilities, partitioning, and implications for ore deposit formation. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 140-159.	3.9	110
7	Microanalysis of S, Cl, and Br in fluid inclusions by LA-ICP-MS. <i>Chemical Geology</i> , 2011, 284, 35-35.	3.3	102
8	Diffusive reequilibration of quartz-hosted silicate melt and fluid inclusions: Are all metal concentrations unmodified?. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3013-3027.	3.9	97
9	Experimental Results on Fractionation of the Highly Siderophile Elements (HSE) at Variable Pressures and Temperatures during Planetary and Magmatic Differentiation. <i>Reviews in Mineralogy and Geochemistry</i> , 2016, 81, 1-87.	4.8	90
10	Efficient mobilization and fractionation of rare-earth elements by aqueous fluids upon slab dehydration. <i>Earth and Planetary Science Letters</i> , 2014, 398, 101-112.	4.4	82
11	Copper transport by high temperature, sulfur-rich magmatic vapor: Evidence from silicate melt and vapor inclusions in a basaltic andesite from the Villarrica volcano (Chile). <i>Earth and Planetary Science Letters</i> , 2009, 282, 115-121.	4.4	79
12	Multiple Self-Trapped Emissions in the Lead-Free Halide Cs ₃ Cu ₂ I ₅ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4326-4330.	4.6	79
13	Composition and evolution of lithosphere beneath the Carpathian-Pannonian Region: a review. <i>Tectonophysics</i> , 2004, 393, 119-137.	2.2	77
14	LA-ICPMS analyses of silicate melt inclusions in co-precipitated minerals: Quantification, data analysis and mineral/melt partitioning. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1021-1040.	3.9	76
15	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> , 2005, 150, 631-642.	3.1	68
16	Magmatic controls on the genesis of porphyry Cu-Mo-Au deposits: The Bingham Canyon example. <i>Earth and Planetary Science Letters</i> , 2017, 480, 53-65.	4.4	61
17	Melt and Fluid Inclusions in Hydrothermal Veins: The Magmatic to Hydrothermal Evolution of the Elatsite Porphyry Cu-Au Deposit, Bulgaria. <i>Economic Geology</i> , 2014, 109, 1359-1381.	3.8	55
18	The partitioning of Cu, Au and Mo between liquid and vapor at magmatic temperatures and its implications for the genesis of magmatic-hydrothermal ore deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 207, 81-101.	3.9	47

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19	The role of liquid-liquid immiscibility and crystal fractionation in the genesis of carbonatite magmas: insights from Kerimasi melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	46
20	Magmatic-hydrothermal tin deposits form in response to efficient tin extraction upon magma degassing. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 331-346.	3.9	43
21	Coexisting silicate melt inclusions and H ₂ O-bearing, CO ₂ -rich fluid inclusions in mantle peridotite xenoliths from the Carpathian-Pannonian region (central Hungary). <i>Chemical Geology</i> , 2010, 274, 1-18.	3.3	40
22	Type-II xenoliths and related metasomatism from the Nagrãrd-Gãr Volcanic Field, Carpathian-Pannonian region (northern Hungary-southern Slovakia). <i>Tectonophysics</i> , 2004, 393, 139-161.	2.2	39
23	The effect of melt composition on the partitioning of oxidized sulfur between silicate melts and magmatic volatiles. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 223-244.	3.9	36
24	LA-ICP-MS study of apatite- and K feldspar-hosted primary carbonatite melt inclusions in clinopyroxenite xenoliths from lamprophyres, Hungary: Implications for significance of carbonatite melts in the Earth's mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1864-1886.	3.9	35
25	Mobility of major and trace elements in the eclogite-fluid system and element fluxes upon slab dehydration. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 198, 70-91.	3.9	35
26	Halogens in Silicic Magmas and Their Hydrothermal Systems. <i>Springer Geochemistry</i> , 2018, , 431-543.	0.1	33
27	Evidence of upgrading of gold tenor in an orogenic quartz-carbonate vein system by late magmatic-hydrothermal fluids at the Madrid Deposit, Hope Bay Greenstone Belt, Nunavut, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 180-218.	3.9	33
28	Evolution of Mafic Alkaline Melts Crystallized in the Uppermost Lithospheric Mantle: a Melt Inclusion Study of Olivine-Clinopyroxenite Xenoliths, Northern Hungary. <i>Journal of Petrology</i> , 2007, 48, 853-883.	2.8	32
29	Chlorine partitioning between granitic melt and H ₂ O-CO ₂ -NaCl fluids in the Earth's upper crust and implications for magmatic-hydrothermal ore genesis. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 171-190.	3.9	30
30	An accurate model to predict sulfur concentration at anhydrite saturation in silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 288-304.	3.9	30
31	The solubility of Pd and Au in hydrous intermediate silicate melts: The effect of oxygen fugacity and the addition of Cl and S. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 231, 15-29.	3.9	29
32	A Quartz-bearing Orthopyroxene-rich Websterite Xenolith from the Pannonian Basin, Western Hungary: Evidence for Release of Quartz-saturated Melts from a Subducted Slab. <i>Journal of Petrology</i> , 2008, 49, 421-439.	2.8	27
33	Learning-in-Templates Enables Accelerated Discovery and Synthesis of New Stable Double Perovskites. <i>Journal of the American Chemical Society</i> , 2019, 141, 3682-3690.	13.7	27
34	The solubility of silver in magmatic fluids: Implications for silver transfer to the magmatic-hydrothermal ore-forming environment. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 238, 235-251.	3.9	26
35	Early start of 20th-century Arctic sea-ice decline recorded in Svalbard coralline algae. <i>Geology</i> , 2019, 47, 963-967.	4.4	26
36	Paleogene-early Miocene igneous rocks and geodynamics of the Alpine-Carpathian-Pannonian-Dinaric region: An integrated approach. , 2007, , .		23

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37	Multiple Metasomatism beneath the NgrdGmr Volcanic Field (Northern Pannonian Basin) Revealed by Upper Mantle Peridotite Xenoliths. <i>Journal of Petrology</i> , 2017, 58, 1107-1144.	2.8	23
38	The role of crystallizationdriven exsolution on the sulfur mass balance in volcanic arc magmas. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5624-5640.	3.4	20
39	Symplectite in spinel lherzolite xenoliths from the Little Hungarian Plain, Western Hungary: A key for understanding the complex history of the upper mantle of the Pannonian Basin. <i>Lithos</i> , 2007, 94, 230-247.	1.4	19
40	Origin of sulfide inclusions in cumulate xenoliths from NgrdGmr Volcanic Field, Pannonian Basin (north Hungary/south Slovakia). <i>Chemical Geology</i> , 2003, 194, 105-117.	3.3	18
41	High-K ankaramitic melt inclusions and lavas in the Upper Cretaceous Eastern Srednogorie continental arc, Bulgaria: Implications for the genesis of arc shoshonites. <i>Lithos</i> , 2009, 113, 228-245.	1.4	16
42	Sulfur diffusion in dacitic melt at various oxidation states: Implications for volcanic degassing. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 50-68.	3.9	16
43	Synthetic fluid inclusions XXIII. Effect of temperature and fluid composition on rates of serpentinization of olivine. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 285-308.	3.9	16
44	Pb and other ore metals in modern seafloor tectonic environments: Evidence from melt inclusions. <i>Marine Geology</i> , 2007, 242, 271-289.	2.1	15
45	Meltwall rock interaction in the mantle shown by silicate melt inclusions in peridotite xenoliths from the central Pannonian Basin (western Hungary). <i>Island Arc</i> , 2009, 18, 375-400.	1.1	15
46	The solubility of platinum in magmatic brines: Insights into the mobility of PGE in ore-forming environments. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 253-272.	3.9	15
47	A Raman calibration for the quantification of SO ₄ ²⁻ groups dissolved in silicate glasses: Application to natural melt inclusions. <i>American Mineralogist</i> , 2017, 102, 2065-2076.	1.9	13
48	Copper partitioning between silicate melts and amphibole: Experimental insight into magma evolution leading to porphyry copper ore formation. <i>Chemical Geology</i> , 2017, 448, 151-163.	3.3	13
49	Can magma degassing at depth donate the metal budget of large hydrothermal Sb deposits?. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 1-15.	3.9	13
50	Effects of hydrothermal alteration on Pb in the active PACMANUS hydrothermal field, ODP Leg 193, Manus Basin, Papua New Guinea: A LA-ICP-MS study. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4256-4278.	3.9	12
51	The solubility of gold and palladium in magmatic brines: Implications for PGE enrichment in mafic-ultramafic and porphyry environments. <i>Geochimica Et Cosmochimica Acta</i> , 2021, , .	3.9	12
52	Optimized solder alloy for glass-to-metal joints by simultaneous soldering and anodic bonding. <i>Journal of Materials Processing Technology</i> , 2016, 236, 176-182.	6.3	11
53	Fractionation of Cl/Br during fluid phase separation in magmatichydrothermal fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 183, 125-137.	3.9	11
54	Water concentrations and hydrogen isotope compositions of alkaline basalt-hosted clinopyroxene megacrysts and amphibole clinopyroxenites: the role of structural hydroxyl groups and molecular water. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	9

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55	Long-lived coralline alga records multidecadal variability in Labrador Sea carbon isotopes. <i>Chemical Geology</i> , 2019, 526, 93-100.	3.3	9
56	Hydrochronology of a proposed deep geological repository for low- and intermediate-level nuclear waste in southern Ontario from U-Pb dating of secondary minerals: response to Alleghanian events. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 494-505.	1.3	9
57	Hydrochronology of a proposed deep geological repository for low- and intermediate-level nuclear waste in southern Ontario from U-Pb dating of secondary minerals: response to Silurian and Cretaceous events. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 464-476.	1.3	8
58	A new method to quantitatively control oxygen fugacity in externally heated pressure vessel experiments. <i>European Journal of Mineralogy</i> , 2020, 32, 219-234.	1.3	7
59	The solubility of Cu, Ag and Au in magmatic sulfur-bearing fluids as a function of oxygen fugacity. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 330, 93-115.	3.9	7
60	Vapor Transport and Deposition of Cu-Sn-Co-Ag Alloys in Vesicles in Mafic Volcanic Rocks. <i>Economic Geology</i> , 2020, 115, 279-301.	3.8	6
61	A new experimental approach to study fluid-rock equilibria at the slab-mantle interface based on the synthetic fluid inclusion technique. <i>American Mineralogist</i> , 2016, 101, 2199-2209.	1.9	5
62	Late twentieth century increase in northern Spitsbergen (Svalbard) glacier-derived runoff tracked by coralline algal Ba/Ca ratios. <i>Climate Dynamics</i> , 2021, 56, 3295-3303.	3.8	5
63	Experimental Results on Fractionation of the Highly Siderophile Elements (HSE) at Variable Pressures and Temperatures during Planetary and Magmatic Differentiation. , 2016, , 1-88.		4
64	Bulk microanalysis of assemblages of small fluid inclusions by LA-ICP-MS: Methodology and application to orogenic gold systems. <i>Chemical Geology</i> , 2019, 529, 119326.	3.3	4
65	The fall, recovery, classification, and initial characterization of the Hamburg, Michigan H4 chondrite. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2341-2359.	1.6	4
66	Melt-rock interaction in the lower crust based on silicate melt inclusions in mafic garnet granulite xenoliths, Bakony-Balaton Highland. <i>Geologica Carpathica</i> , 2021, 72, .	0.7	4
67	Advancing Mg/Ca Analysis of Coralline Algae as a Climate Proxy by Assessing LA-ICP-OES Sampling and Coupled Mg/Ca- ¹⁸ O Analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2876-2894.	2.5	1
68	A New High-Pressure Experimental Apparatus to Study Magmatic Processes at Precisely Controlled Redox Conditions. <i>American Mineralogist</i> , 2021, , .	1.9	1
69	Acceptance of the Waldemar Lindgren Award for 2015. <i>Economic Geology</i> , 2017, 112, 217-217.	3.8	0