

Guilherme A R Gualda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7525579/publications.pdf>

Version: 2024-02-01

46
papers

3,328
citations

218677

26
h-index

276875

41
g-index

48
all docs

48
docs citations

48
times ranked

2380
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhyolite-MELTS: a Modified Calibration of MELTS Optimized for Silica-rich, Fluid-bearing Magmatic Systems. <i>Journal of Petrology</i> , 2012, 53, 875-890.	2.8	1,001
2	An H ₂ O-CO ₂ mixed fluid saturation model compatible with rhyolite-MELTS. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	423
3	An introduction to the application of X-ray microtomography to the three-dimensional study of igneous rocks. <i>Lithos</i> , 2012, 148, 262-276.	1.4	182
4	MELTS: an Excel-based interface for research and teaching of magma properties and evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 315-324.	2.5	166
5	Low-Pressure Origin of High-Silica Rhyolites and Granites. <i>Journal of Geology</i> , 2013, 121, 537-545.	1.4	122
6	A method for estimating the activity of titania in magmatic liquids from the compositions of coexisting rhombohedral and cubic iron-titanium oxides. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 73-81.	3.1	120
7	Timescales of Quartz Crystallization and the Longevity of the Bishop Giant Magma Body. <i>PLoS ONE</i> , 2012, 7, e37492.	2.5	97
8	Quantitative 3D petrography using x-ray tomography: Application to Bishop Tuff pumice clasts. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 154, 48-62.	2.1	90
9	The Bishop Tuff giant magma body: an alternative to the Standard Model. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 755-775.	3.1	85
10	Sphene and zircon in the Highland Range volcanic sequence (Miocene, southern Nevada, USA): elemental partitioning, phase relations, and influence on evolution of silicic magma. <i>Mineralogy and Petrology</i> , 2011, 102, 29-50.	1.1	76
11	Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTS. Part 1: Principles, procedures, and evaluation of the method. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	73
12	Allanite and chevkinite in A-type granites and syenites of the Graciosa Province, southern Brazil. <i>Lithos</i> , 2007, 97, 98-121.	1.4	71
13	The Evolution of the Peach Spring Giant Magma Body: Evidence from Accessory Mineral Textures and Compositions, Bulk Pumice and Glass Geochemistry, and Rhyolite-MELTS Modeling. <i>Journal of Petrology</i> , 2013, 54, 1109-1148.	2.8	70
14	Crystal Size Distributions Derived from 3D Datasets: Sample Size Versus Uncertainties. <i>Journal of Petrology</i> , 2006, 47, 1245-1254.	2.8	43
15	Experimental constraints on rhyolite-MELTS and the Late Bishop Tuff magma body. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	42
16	Magnetite scavenging and the buoyancy of bubbles in magmas. Part 2: Energetics of crystal-bubble attachment in magmas. <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 479-490.	3.1	39
17	Quantitative 3D petrography using X-ray tomography 3: Documenting accessory phases with differential absorption tomography. , 2010, 6, 782-792.		38
18	Magnetite scavenging and the buoyancy of bubbles in magmas. Part 1: Discovery of a pre-eruptive bubble in Bishop rhyolite. <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 733-742.	3.1	37

#	ARTICLE	IF	CITATIONS
19	The Year Leading to a Supereruption. PLoS ONE, 2016, 11, e0159200.	2.5	37
20	Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTS Part 3: Application to the Peach Spring Tuff (Arizona-California-Nevada, USA). Contributions To Mineralogy and Petrology, 2015, 169, 1.	3.1	35
21	Climbing the crustal ladder: Magma storage-depth evolution during a volcanic flare-up. Science Advances, 2018, 4, eaap7567.	10.3	35
22	Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTS. Part 2: application to Taupo Volcanic Zone rhyolites. Contributions To Mineralogy and Petrology, 2014, 168, 1.	3.1	34
23	Internal triggering of volcanic eruptions: tracking overpressure regimes for giant magma bodies. Earth and Planetary Science Letters, 2017, 472, 142-151.	4.4	33
24	The Serra da Graciosa A-type granites and syenites, southern Brazil. Part 1: regional setting and geological characterization. Anais Da Academia Brasileira De Ciencias, 2007, 79, 405-430.	0.8	31
25	Crystallization ages of the A-type magmatism of the Graciosa Province (Southern Brazil): Constraints from zircon U-Pb (ID-TIMS) dating of coeval K-rich gabbro-dioritic rocks. Journal of South American Earth Sciences, 2011, 32, 407-415.	1.4	31
26	Crystallization Stages of the Bishop Tuff Magma Body Recorded in Crystal Textures in Pumice Clasts. Journal of Petrology, 2012, 53, 589-609.	2.8	31
27	The Serra da Graciosa A-type Granites and Syenites, southern Brazil. Lithos, 2007, 93, 310-327.	1.4	29
28	Architecture of a Super-sized Magma Chamber and Remobilization of its Basal Cumulate (Peach Spring) Tuff. Earth and Planetary Science Letters, 2000, 179, 1-10.	2.8	29
29	Fragmentation, nucleation and migration of crystals and bubbles in the Bishop Tuff rhyolitic magma. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2004, 95, 375-390.	0.3	28
30	High-Ti, bright-CL rims in volcanic quartz: a result of very rapid growth. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	27
31	Stoichiometry-based estimates of ferric iron in calcic, sodic-calcic and sodic amphiboles: a comparison of various methods. Anais Da Academia Brasileira De Ciencias, 2005, 77, 521-534.	0.8	23
32	Quantitative 3D petrography using X-ray tomography 2: Combining information at various resolutions. Earth and Planetary Science Letters, 2010, 6, 775-781.		23
33	Magma extraction pressures and the architecture of volcanic plumbing systems. Earth and Planetary Science Letters, 2019, 522, 118-124.	4.4	22
34	The Serra da Graciosa A-type Granites and Syenites, southern Brazil. Part 3: Magmatic evolution and post-magmatic breakdown of amphiboles of the alkaline association. Lithos, 2007, 93, 328-339.	1.4	20
35	Magma residence and eruption at the Taupo Volcanic Center (Taupo Volcanic Zone, New Zealand): insights from rhyolite-MELTS geobarometry, diffusion chronometry, and crystal textures. Contributions To Mineralogy and Petrology, 2020, 175, 1.	3.1	16
36	Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTS. Part 4: Plagioclase, orthopyroxene, clinopyroxene, glass geobarometer, and application to Mt. Ruapehu, New Zealand. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	13

#	ARTICLE	IF	CITATIONS
37	DISSOLUTION OF OPHIUROID OSSICLES ON THE SHALLOW ANTARCTIC SHELF: IMPLICATIONS FOR THE FOSSIL RECORD AND OCEAN ACIDIFICATION. <i>Palaios</i> , 2013, 28, 317-332.	1.3	11
38	Repetitive Duality of Rhyolite Compositions, Timescales, and Storage and Extraction Conditions for Pleistocene Caldera-forming Eruptions, Hokkaido, Japan. <i>Journal of Petrology</i> , 2021, 62, .	2.8	9
39	Introduction: Advances in 3D imaging and analysis of geomaterials. , 2010, 6, 468-469.		7
40	Rhyolite-MELTS vs DERPâ€”Newer Does not Make it Better: a Comment on â€”The Effect of Anorthite Content and Water on Quartzâ€”Feldspar Cotectic Compositions in the Rhyolitic System and Implications for Geobarometryâ€™ by Wilke et al. (2017; <i>Journal of Petrology</i> , 58, 789â€”818). <i>Journal of Petrology</i> , 2019, 60, 855-864.	2.8	7
41	Rhyolite-MELTS and the storage and extraction of large-volume crystal-poor rhyolitic melts at the Taupâ€”Volcanic Center: a reply to Wilson et al. (2021). <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	6
42	On the origin of alkali feldspar megacrysts in granitoids: the case against textural coarsening. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	5
43	Comment on 'A Metamodel for Crustal Magmatism: Phase Equilibria of Giant Ignimbrites' by S. J. Fowler and F. J. Spera. <i>Journal of Petrology</i> , 2011, 52, 431-434.	2.8	4
44	Hydrothermal Cooling as a Requirement for Short Storage of Silicic Magmas. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009794.	2.5	4
45	Fragmentation, nucleation and migration of crystals and bubbles in the Bishop Tuff rhyolitic magma. , 2004, , .		2
46	Geology and petrography of the graciosa granites (Southern Brazil). <i>Anais Da Academia Brasileira De Ciencias</i> , 2001, 73, 467-467.	0.8	0