# Guilherme A R Gualda

List of Publications by Year
in descending order

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

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|---|---|---|---|
| 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 | Repetitive Duality of Rhyolite Compositions, Timescales, and Storage and Extraction Conditions for Pleistocene Caldera-forming Eruptions, Hokkaido, Japan. Journal of Petrology, 2021, 62, . | 2.8 | 9 |
| 2 | Hydrothermal Cooling as a Requirement for Short Storage of Silicic Magmas. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009794. | 2.5 | 4 |
| 3 | Rhyolite-MELTS and the storage and extraction of large-volume crystal-poor rhyolitic melts at the TaupÅ•Volcanic Center: a reply to Wilson et al. (2021). Contributions To Mineralogy and Petrology, 2021, 176, 1. | 3.1 | 6 |
| 4 | Architecture of a Super-sized Magma Chamber and Remobilization of its Basal Cumulate (Peach Spring) Tj ETQq0 0 0 rgBT /Overlock 10 | 2.8 | 29 |
| 5 | 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 |
| 6 | Magma extraction pressures and the architecture of volcanic plumbing systems. Earth and Planetary Science Letters, 2019, 522, 118-124. | 4.4 | 22 |
| 7 | On the origin of alkali feldspar megacrysts in granitoids: the case against textural coarsening. Contributions To Mineralogy and Petrology, 2019, 174, 1. | 3.1 | 5 |
| 8 | 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; Journal of Petrology, 58, 789â€"818). Journal of Petrology, 2019, 60, 855-864. | 2.8 | 7 |
| 9 | 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 |
| 10 | Climbing the crustal ladder: Magma storage-depth evolution during a volcanic flare-up. Science Advances, 2018, 4, eaap7567. | 10.3 | 35 |
| 11 | Internal triggering of volcanic eruptions: tracking overpressure regimes for giant magma bodies. Earth and Planetary Science Letters, 2017, 472, 142-151. | 4.4 | 33 |
| 12 | 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 |
| 13 | The Year Leading to a Supereruption. PLoS ONE, 2016, 11, e0159200. | 2.5 | 37 |
| 14 | An H2Oâ€"CO2 mixed fluid saturation model compatible with rhyolite-MELTS. Contributions To Mineralogy and Petrology, 2015, 169, 1. | 3.1 | 423 |
| 15 | <scp>MELTS</scp>_<scp>E</scp>xcel: <scp>A</scp><scp>M</scp>icrosoft <scp>E</scp>xcelâ€based <scp>MELTS</scp> interface for research and teaching of magma properties and evolution. Geochemistry, Geophysics, Geosystems, 2015, 16, 315-324. | 2.5 | 166 |
| 16 | Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTSâ€"Part 3: Application to the Peach Spring Tuff (Arizonaâ€"Californiaâ€"Nevada, USA). Contributions To Mineralogy and Petrology, 2015, 169, 1. | 3.1 | 35 |
| 17 | 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 |
| 18 | Experimental constraints on rhyolite-MELTS and the Late Bishop Tuff magma body. Contributions To Mineralogy and Petrology, 2014, 168, 1. | 3.1 | 42 |

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|---|---|---|---|
| 19 | Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTS. Part 1: Principles, procedures, and evaluation of the method. Contributions To Mineralogy and Petrology, 2014, 168, 1. | 3.1 | 73 |
| 20 | Low-Pressure Origin of High-Silica Rhyolites and Granites. Journal of Geology, 2013, 121, 537-545. | 1.4 | 122 |
| 21 | The Bishop Tuff giant magma body: an alternative to the Standard Model. Contributions To Mineralogy and Petrology, 2013, 166, 755-775. | 3.1 | 85 |
| 22 | 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. Journal of Petrology, 2013, 54, 1109-1148. | 2.8 | 70 |
| 23 | A method for estimating the activity of titania in magmatic liquids from the compositions of coexisting rhombohedral and cubic ironâ€“titanium oxides. Contributions To Mineralogy and Petrology, 2013, 165, 73-81. | 3.1 | 120 |
| 24 | DISSOLUTION OF OPHIUROID OSSICLES ON THE SHALLOW ANTARCTIC SHELF: IMPLICATIONS FOR THE FOSSIL RECORD AND OCEAN ACIDIFICATION. Palaios, 2013, 28, 317-332. | 1.3 | 11 |
| 25 | 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 |
| 26 | Rhyolite-MELTS: a Modified Calibration of MELTS Optimized for Silica-rich, Fluid-bearing Magmatic Systems. Journal of Petrology, 2012, 53, 875-890. | 2.8 | 1,001 |
| 27 | An introduction to the application of X-ray microtomography to the three-dimensional study of igneous rocks. Lithos, 2012, 148, 262-276. | 1.4 | 182 |
| 28 | Timescales of Quartz Crystallization and the Longevity of the Bishop Giant Magma Body. PLoS ONE, 2012, 7, e37492. | 2.5 | 97 |
| 29 | 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 |
| 30 | Sphene and zircon in the Highland Range volcanic sequence (Miocene, southern Nevada, USA): elemental partitioning, phase relations, and influence on evolution of silicic magma. Mineralogy and Petrology, 2011, 102, 29-50. | 1.1 | 76 |
| 31 | Comment on 'A Metamodel for Crustal Magmatism: Phase Equilibria of Giant Ignimbrites' by S. J. Fowler and F. J. Spera. Journal of Petrology, 2011, 52, 431-434. | 2.8 | 4 |
| 32 | Quantitative 3D petrography using X-ray tomography 3: Documenting accessory phases with differential absorption tomography. , 2010, 6, 782-792. | | 38 |
| 33 | Introduction: Advances in 3D imaging and analysis of geomaterials. , 2010, 6, 468-469. | | 7 |
| 34 | Quantitative 3D petrography using X-ray tomography 2: Combining information at various resolutions. , 2010, 6, 775-781. | | 23 |
| 35 | 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 |
| 36 | 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 |

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| 37 | The Serra da Graciosa A-type Granites and Syenites, southern Brazil. Lithos, 2007, 93, 310-327. | 1.4 | 29 |
| 38 | Allanite and chevkinite in A-type granites and syenites of the Graciosa Province, southern Brazil. Lithos, 2007, 97, 98-121. | 1.4 | 71 |
| 39 | Magnetite scavenging and the buoyancy of bubbles in magmas. Part 1: Discovery of a pre-eruptive bubble in Bishop rhyolite. Contributions To Mineralogy and Petrology, 2007, 153, 733-742. | 3.1 | 37 |
| 40 | Magnetite scavenging and the buoyancy of bubbles in magmas. Part 2: Energetics of crystal-bubble attachment in magmas. Contributions To Mineralogy and Petrology, 2007, 154, 479-490. | 3.1 | 39 |
| 41 | Crystal Size Distributions Derived from 3D Datasets: Sample Size Versus Uncertainties. Journal of Petrology, 2006, 47, 1245-1254. | 2.8 | 43 |
| 42 | Quantitative 3D petrography using x-ray tomography: Application to Bishop Tuff pumice clasts. Journal of Volcanology and Geothermal Research, 2006, 154, 48-62. | 2.1 | 90 |
| 43 | 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 |
| 44 | 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 |
| 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). Anais Da Academia Brasileira De Ciencias, 2001, 73, 467-467. | 0.8 | 0 |