

Bruce Charlier

List of Publications by Year in descending order

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44
papers

2,928
citations

172457

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254184

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44
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docs citations

44
times ranked

2183
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Microsampling and Isotopic Analysis of Igneous Rocks: Implications for the Study of Magmatic Systems. <i>Annual Review of Earth and Planetary Sciences</i> , 2007, 35, 273-311. | 11.0 | 384 |
| 2 | Magma Generation at a Large, Hyperactive Silicic Volcano (Taupo, New Zealand) Revealed by ^{238}U and ^{230}Th Systematics in Zircons. <i>Journal of Petrology</i> , 2005, 46, 3-32. | 2.8 | 349 |
| 3 | Methods for the microsampling and high-precision analysis of strontium and rubidium isotopes at single crystal scale for petrological and geochronological applications. <i>Chemical Geology</i> , 2006, 232, 114-133. | 3.3 | 246 |
| 4 | The 26 Å -5 Å ka Oruanui Eruption, Taupo Volcano, New Zealand: Development, Characteristics and Evacuation of a Large Rhyolitic Magma Body. <i>Journal of Petrology</i> , 2006, 47, 35-69. | 2.8 | 164 |
| 5 | Zircon crystallization and recycling in the magma chamber of the rhyolitic Kos Plateau Tuff (Aegean) Tj ETQq1 1 0.784314 rgBT / Overlo | 4.4 | 116 |
| 6 | Rapid Rates of Magma Generation at Contemporaneous Magma Systems, Taupo Volcano, New Zealand: Insights from ^{238}U Model-age Spectra in Zircons. <i>Journal of Petrology</i> , 2009, 50, 875-907. | 2.8 | 106 |
| 7 | New Perspectives on the Bishop Tuff from Zircon Textures, Ages and Trace Elements. <i>Journal of Petrology</i> , 2014, 55, 395-426. | 2.8 | 96 |
| 8 | Crystallisation ages in coeval silicic magma bodies: ^{238}U - ^{230}Th disequilibrium evidence from the Rotoiti and Earthquake Flat eruption deposits, Taupo Volcanic Zone, New Zealand. <i>Earth and Planetary Science Letters</i> , 2003, 206, 441-457. | 4.4 | 94 |
| 9 | Late Quaternary evolution of a hyperactive rhyolite magmatic system: Taupo volcanic centre, New Zealand. <i>Journal of the Geological Society</i> , 2000, 157, 537-552. | 2.1 | 92 |
| 10 | Reassessing the stable ($^{88}\text{Sr}/^{86}\text{Sr}$) and radiogenic ($^{87}\text{Sr}/^{86}\text{Sr}$) strontium isotopic composition of marine inputs. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 157, 125-146. | 3.9 | 89 |
| 11 | The Upper Crustal Evolution of a Large Silicic Magma Body: Evidence from Crystal-scale Rb - Sr Isotopic Heterogeneities in the Fish Canyon Magmatic System, Colorado. <i>Journal of Petrology</i> , 2007, 48, 1875-1894. | 2.8 | 83 |
| 12 | Some remarks on ^{238}U mineral ages from igneous rocks with prolonged crystallisation histories. <i>Earth and Planetary Science Letters</i> , 2000, 183, 457-469. | 4.4 | 78 |
| 13 | 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. | 2.1 | 78 |
| 14 | High temperature strontium stable isotope behaviour in the early solar system and planetary bodies. <i>Earth and Planetary Science Letters</i> , 2012, 329-330, 31-40. | 4.4 | 72 |
| 15 | First field evidence of southward ductile flow of Asian crust beneath southern Tibet. <i>Geology</i> , 2007, 35, 727. | 4.4 | 68 |
| 16 | Rapid open-system assembly of a large silicic magma body: time-resolved evidence from cored plagioclase crystals in the Oruanui eruption deposits, New Zealand. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 799-813. | 3.1 | 64 |
| 17 | Lithium concentration gradients in feldspar and quartz record the final minutes of magma ascent in an explosive supereruption. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 218-227. | 4.4 | 61 |
| 18 | Isotopic Microsampling of Magmatic Rocks. <i>Elements</i> , 2007, 3, 253-259. | 0.5 | 55 |

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|----|---|------|-----------|
| 19 | Chronology and Evolution of Caldera-forming and Post-caldera Magma Systems at Okataina Volcano, New Zealand from Zircon U-Th Model-age Spectra. <i>Journal of Petrology</i> , 2010, 51, 1121-1141. | 2.8 | 52 |
| 20 | Post-supereruption Magmatic Reconstruction of Taupo Volcano (New Zealand), as Reflected in Zircon Ages and Trace Elements. <i>Journal of Petrology</i> , 2014, 55, 1511-1533. | 2.8 | 49 |
| 21 | Extreme U-Th Disequilibrium in Rift-Related Basalts, Rhyolites and Granophyric Granite and the Timescale of Rhyolite Generation, Intrusion and Crystallization at Alid Volcanic Center, Eritrea. <i>Journal of Petrology</i> , 2006, 47, 2105-2122. | 2.8 | 39 |
| 22 | A comment on: "Titanium under pressure: the effect of pressure and temperature on the solubility of Ti in quartz", by Jay B. Thomas, E. Bruce Watson, Frank S. Spear, Philip T. Shemella, Saroj K. Nayak and Antonio Lanzirotti. <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 359-368. | 3.1 | 39 |
| 23 | Taupo: an overview of New Zealand's youngest supervolcano. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 320-346. | 1.8 | 39 |
| 24 | The abundance and isotopic composition of water in eucrites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1110-1124. | 1.6 | 37 |
| 25 | Mineral isochrons and isotopic fingerprinting: Pitfalls and promises. <i>Geology</i> , 2005, 33, 29. | 4.4 | 34 |
| 26 | U-Pb dating of zircon in hydrothermally altered rocks as a correlation tool: Application to the Mangakino geothermal field, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 191-198. | 2.1 | 32 |
| 27 | Temporal evolution and compositional signatures of two supervolcanic systems recorded in zircons from Mangakino volcanic centre, New Zealand. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1. | 3.1 | 32 |
| 28 | The Life and Times of Silicic Volcanic Systems. <i>Elements</i> , 2016, 12, 103-108. | 0.5 | 31 |
| 29 | Evidence from zircon U-Pb age spectra for crustal structure and felsic magma genesis at Taupo volcano, New Zealand. <i>Geology</i> , 2010, 38, 915-918. | 4.4 | 30 |
| 30 | U-Pb dating of zircon in hydrothermally altered rocks of the Kawerau Geothermal Field, Taupo Volcanic Zone, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 253, 97-113. | 2.1 | 30 |
| 31 | Heating events in the nascent solar system recorded by rare earth element isotopic fractionation in refractory inclusions. <i>Science Advances</i> , 2021, 7, . | 10.3 | 28 |
| 32 | Mineral-scale Sr isotope variation in plutonic rocks – a tool for unravelling the evolution of magma systems. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2008, 97, 357-367. | 0.7 | 24 |
| 33 | U-Pb dating of zircon in subsurface, hydrothermally altered pyroclastic deposits and implications for subsidence in a magmatically active rift: Taupo Volcanic Zone, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 191, 69-78. | 2.1 | 24 |
| 34 | Stable strontium isotopic heterogeneity in the solar system from double-spike data. <i>Geochemical Perspectives Letters</i> , 0, , 35-40. | 5.0 | 17 |
| 35 | Structure and evolution of the Wairakei-Tauhara geothermal system (Taupo Volcanic Zone, New Zealand). <i>Research</i> , 2020, 390, 106705. | 2.1 | 16 |
| 36 | The Huckleberry Ridge Tuff, Yellowstone: evacuation of multiple magmatic systems in a complex episodic eruption. <i>Journal of Petrology</i> , 2019, 60, 1371-1426. | 2.8 | 15 |

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|----|--|------|-----------|
| 37 | Nucleosynthetic, radiogenic and stable strontium isotopic variations in fine- and coarse-grained refractory inclusions from Allende. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 413-430. | 3.9 | 15 |
| 38 | Comment on "Rapid cooling and cold storage in a silicic magma reservoir recorded in individual crystals". <i>Science</i> , 2017, 358, . | 12.6 | 13 |
| 39 | The mineralogy, petrology, and composition of anomalous eucrite Emmaville. <i>Meteoritics and Planetary Science</i> , 2017, 52, 656-668. | 1.6 | 10 |
| 40 | The hydrothermal evolution of the Kawerau geothermal system, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 353, 114-131. | 2.1 | 8 |
| 41 | Survival of presolar <i>p</i> -nuclide carriers in the nebula revealed by stepwise leaching of Allende refractory inclusions. <i>Science Advances</i> , 2021, 7, . | 10.3 | 8 |
| 42 | Mafic inputs into the rhyolitic magmatic system of the 2.08 Ma Huckleberry Ridge eruption, Yellowstone. <i>American Mineralogist</i> , 2018, 103, 757-775. | 1.9 | 5 |
| 43 | A comment on: magma residence and eruption at the TaupÅ•Volcanic Center (TaupÅ•Volcanic Zone, New) by AS PamukÅ•su et al., <i>Contrib Mineral Petrol</i> 175:48 (2020). <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1. | 3.1 | 3 |
| 44 | Rifting and recharge as triggers of the mixed basalt-rhyolite HalarauÅ•ur ignimbrite eruption (Krafla,) Tj ETQq0 0.0 rgBT /Oyerlock 10 | 3.1 | 3 |