

Aaron J Pietruszka

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,471
citations

279798

23
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377865

34
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37
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docs citations

37
times ranked

1287
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Magmatic Processes During the Prolonged Puu Oo Eruption of Kilauea Volcano, Hawaii. <i>Journal of Petrology</i> , 2000, 41, 967-990. | 2.8 | 101 |
| 2 | Precise and accurate measurement of ^{226}Ra - ^{230}Th - ^{238}U disequilibria in volcanic rocks using plasma ionization multicollector mass spectrometry. <i>Chemical Geology</i> , 2002, 188, 171-191. | 3.3 | 89 |
| 3 | Petrology of lavas from the Puu Oo eruption of Kilauea Volcano: III. The Kupaianaha episode (1986-1992). <i>Bulletin of Volcanology</i> , 1996, 58, 359-379. | 3.0 | 87 |
| 4 | Crustal Contamination of Kilauea Volcano Magmas Revealed by Oxygen Isotope Analyses of Glass and Olivine from Puu Oo Eruption Lavas. <i>Journal of Petrology</i> , 1998, 39, 803-817. | 2.8 | 82 |
| 5 | Major and trace element and Sr-Nd isotope signatures of lavas from the Central Lau Basin: Implications for the nature and influence of subduction components in the back-arc mantle. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 657-670. | 2.1 | 82 |
| 6 | The size and shape of Kilauea Volcano's summit magma storage reservoir: a geochemical probe. <i>Earth and Planetary Science Letters</i> , 1999, 167, 311-320. | 4.4 | 80 |
| 7 | Determination of mass-dependent molybdenum isotopic variations by MC-ICP-MS: An evaluation of matrix effects. <i>Chemical Geology</i> , 2006, 225, 121-136. | 3.3 | 79 |
| 8 | Chemical heterogeneity in the Hawaiian mantle plume from the alteration and dehydration of recycled oceanic crust. <i>Earth and Planetary Science Letters</i> , 2013, 361, 298-309. | 4.4 | 75 |
| 9 | Trace-element distribution coefficients for pyroxenes, plagioclase, and olivine in evolved tholeiites from the 1955 eruption of Kilauea Volcano, Hawai'i, and petrogenesis of differentiated rift-zone lavas. <i>American Mineralogist</i> , 2005, 90, 888-899. | 1.9 | 73 |
| 10 | Rapid passage of a small-scale mantle heterogeneity through the melting regions of Kilauea and Mauna Loa Volcanoes. <i>Earth and Planetary Science Letters</i> , 2007, 259, 34-50. | 4.4 | 65 |
| 11 | ^{226}Ra - ^{230}Th - ^{238}U disequilibria of historical Kilauea lavas (1790-1982) and the dynamics of mantle melting within the Hawaiian plume. <i>Earth and Planetary Science Letters</i> , 2001, 186, 15-31. | 4.4 | 64 |
| 12 | Unusual $\delta^{56}\text{Fe}$ values in Samoan rejuvenated lavas generated in the mantle. <i>Earth and Planetary Science Letters</i> , 2016, 450, 221-232. | 4.4 | 64 |
| 13 | A high carbon content of the Hawaiian mantle from olivine-hosted melt inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 254, 156-172. | 3.9 | 51 |
| 14 | Two magma bodies beneath the summit of Kilauea Volcano unveiled by isotopically distinct melt deliveries from the mantle. <i>Earth and Planetary Science Letters</i> , 2015, 413, 90-100. | 4.4 | 43 |
| 15 | Crustal Contamination of Mantle-derived Magmas within Piton de la Fournaise Volcano, Reunion Island. <i>Journal of Petrology</i> , 2009, 50, 661-684. | 2.8 | 41 |
| 16 | Identification of a matrix effect in the MC-ICP-MS due to sample purification using ion exchange resin: An isotopic case study of molybdenum. <i>International Journal of Mass Spectrometry</i> , 2008, 270, 23-30. | 1.5 | 40 |
| 17 | Geochemical Variations during Kilauea's Pu'u 'O'o Eruption Reveal a Fine-scale Mixture of Mantle Heterogeneities within the Hawaiian Plume. <i>Journal of Petrology</i> , 2008, 49, 1297-1318. | 2.8 | 38 |
| 18 | Major and trace element and Sr-Nd isotope signatures of the northern Lau Basin lavas: Implications for the composition and dynamics of the back-arc basin mantle. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a. | 3.3 | 38 |

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|----|--|-----|-----------|
| 19 | The Role of Open-System Processes in the Development of Silicic Magma Chambers: a Chemical and Isotopic Investigation of the Fogo A Trachyte Deposit, Sao Miguel, Azores. <i>Journal of Petrology</i> , 2004, 45, 723-738. | 2.8 | 34 |
| 20 | Remelting of recently depleted mantle within the Hawaiian plume inferred from the ^{226}Ra - ^{230}Th - ^{238}U disequilibria of Pu ϵ eruption lavas. <i>Earth and Planetary Science Letters</i> , 2006, 244, 155-169. | 4.4 | 30 |
| 21 | Time scales of formation of zoned magma chambers: U-series disequilibria in the Fogo A and 1563 A.D. trachyte deposits, S \tilde{a} o Miguel, Azores. <i>Chemical Geology</i> , 2007, 239, 138-155. | 3.3 | 28 |
| 22 | Geochemistry of southern Pagan Island lavas, Mariana arc: the role of subduction zone processes. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 231-252. | 3.1 | 28 |
| 23 | Temporal geochemical variations in lavas from K \ddot{a} lauea's Pu ϵ eruption (1983-2010): Cyclic variations from melting of source heterogeneities. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4849-4873. | 2.5 | 28 |
| 24 | An Isotopic Perspective into the Magmatic Evolution and Architecture of the Rift Zones of K \ddot{a} lauea Volcano. <i>Journal of Petrology</i> , 2018, 59, 2311-2352. | 2.8 | 20 |
| 25 | Excesses of seawater-derived ^{234}U in volcanic glasses from Loihi Seamount due to crustal contamination. <i>Earth and Planetary Science Letters</i> , 2011, 304, 280-289. | 4.4 | 17 |
| 26 | Evaluation of laser ablation double-focusing SC-ICPMS for $\delta^{13}\text{C}$ lead isotopic measurements in silicate glasses and minerals. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1135-1154. | 3.0 | 15 |
| 27 | Crustal Contamination of Kilauea Volcano Magmas Revealed by Oxygen Isotope Analyses of Glass and Olivine from Puu Oo Eruption Lavas. <i>Journal of Petrology</i> , 1998, 39, 803-817. | 2.8 | 15 |
| 28 | A Rapid Fluctuation in the Mantle Source and Melting History of Kilauea Volcano Inferred from the Geochemistry of its Historical Summit Lavas (1790-1982). <i>Journal of Petrology</i> , 1999, 40, 1321-1342. | 2.8 | 15 |
| 29 | Petrology and Geochemistry of Volcanic Rocks from the South Kau \ddot{i} Swell Volcano, Hawai \ddot{i} : Implications for the Lithology and Composition of the Hawaiian Mantle Plume. <i>Journal of Petrology</i> , 2015, 56, 1173-1197. | 2.8 | 12 |
| 30 | How old is K \ddot{a} lauea Volcano (Hawai \ddot{i})? Insights from $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the 1.7-km-deep SOH-1 core. <i>Geology</i> , 2017, 45, 79-82. | 4.4 | 12 |
| 31 | K \ddot{a} lauea's Pu ϵ Eruption (1983-2018): A synthesis of magmatic processes during a prolonged basaltic event. <i>Chemical Geology</i> , 2021, 581, 120391. | 3.3 | 10 |
| 32 | A Review of the Recent Geochemical Evolution of Piton de la Fournaise Volcano (1927-2010). <i>Active Volcanoes of the World</i> , 2016, , 185-201. | 1.4 | 6 |
| 33 | Accumulated Pu ϵ magma fed the voluminous 2018 rift eruption of K \ddot{a} lauea Volcano: evidence from lava chemistry. <i>Bulletin of Volcanology</i> , 2021, 83, 1. | 3.0 | 5 |
| 34 | Explosive summit collapse of K \ddot{a} lauea Volcano in 1924 preceded by a decade of crustal contamination and anomalous Pb isotope ratios. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 120-137. | 3.9 | 4 |
| 35 | Uranium Series, Rates of Basaltic Melt Generation and Transport. , 2014, , 1-4. | | 0 |
| 36 | Uranium Series, Rates of Basaltic Melt Generation and Transport. <i>Encyclopedia of Earth Sciences Series</i> , 2015, , 843-845. | 0.1 | 0 |