

Shichun Huang

List of Publications by Citations

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67

papers

2,429

citations

28

h-index

48

g-index

69

ext. papers

2,867

ext. citations

7.2

avg, IF

5.26

L-index

| # | Paper | IF | Citations |
|----|---|--------|-----------|
| 67 | Magnesium isotopic composition of the Earth and chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 4150-4166 | 5.5 | 299 |
| 66 | Iron isotopic systematics of oceanic basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 107, 12-26 | 5.5 | 143 |
| 65 | Diffusion-driven magnesium and iron isotope fractionation in Hawaiian olivine. <i>Earth and Planetary Science Letters</i> , 2011 , 308, 317-324 | 5.3 | 129 |
| 64 | Stable calcium isotopic compositions of Hawaiian shield lavas: Evidence for recycling of ancient marine carbonates into the mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 4987-4997 | 5.5 | 115 |
| 63 | Calcium isotopic fractionation between clinopyroxene and orthopyroxene from mantle peridotites. <i>Earth and Planetary Science Letters</i> , 2010 , 292, 337-344 | 5.3 | 109 |
| 62 | Ice-VII inclusions in diamonds: Evidence for aqueous fluid in Earth's deep mantle. <i>Science</i> , 2018 , 359, 1136-1139 | 31.108 | 108 |
| 61 | Recycled oceanic crust in the Hawaiian Plume: evidence from temporal geochemical variations within the Koolau Shield. <i>Contributions To Mineralogy and Petrology</i> , 2005 , 149, 556-575 | 3.5 | 85 |
| 60 | Geochemical zoning of volcanic chains associated with Pacific hotspots. <i>Nature Geoscience</i> , 2011 , 4, 874-888 | 8.8 | 75 |
| 59 | Calcium isotopic ratios and rare earth element abundances in refractory inclusions from the Allende CV3 chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 77, 252-265 | 5.5 | 65 |
| 58 | Trace element abundances of Mauna Kea basalt from phase 2 of the Hawaii Scientific Drilling Project: Petrogenetic implications of correlations with major element content and isotopic ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4, n/a-n/a | 3.6 | 64 |
| 57 | Origin of depleted components in basalt related to the Hawaiian hot spot: Evidence from isotopic and incompatible element ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, | 3.6 | 60 |
| 56 | Coupled extremely light Ca and Fe isotopes in peridotites. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 208, 368-380 | 5.5 | 59 |
| 55 | First-principles investigations of equilibrium calcium isotope fractionation between clinopyroxene and Ca-doped orthopyroxene. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 143, 132-142 | 5.5 | 59 |
| 54 | First-principles calculations of equilibrium silicon isotope fractionation among mantle minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 140, 509-520 | 5.5 | 58 |
| 53 | Coupled W/Ds/Bt isotope systematics in IVB iron meteorites: In situ neutron dosimetry for W isotope chronology. <i>Earth and Planetary Science Letters</i> , 2013 , 361, 152-161 | 5.3 | 54 |
| 52 | Major element variations in Hawaiian shield lavas: Source features and perspectives from global ocean island basalt (OIB) systematics. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, | 3.6 | 52 |
| 51 | Mass-Independent and Mass-Dependent Ca Isotopic Compositions of Thirteen Geological Reference Materials Measured by Thermal Ionisation Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2017 , 41, 283-302 | 3.6 | 51 |

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| 50 | Concentration effect on equilibrium fractionation of Mg-Ca isotopes in carbonate minerals: Insights from first-principles calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 208, 185-197 | 5.5 | 48 |
| 49 | Large Pt anomaly in the Greenland ice core points to a cataclysm at the onset of Younger Dryas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12917-20 | 11.5 | 47 |
| 48 | Enriched components in the Hawaiian plume: Evidence from Kahoolawe Volcano, Hawaii. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a | 3.6 | 45 |
| 47 | Effect of Ca content on equilibrium Ca isotope fractionation between orthopyroxene and clinopyroxene. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 219, 44-56 | 5.5 | 41 |
| 46 | Calcium isotopic compositions of chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 201, 364-376 | 5.5 | 37 |
| 45 | A radiogenic Os component in the oceanic lithosphere? Constraints from Hawaiian pyroxenite xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 4899-4916 | 5.5 | 36 |
| 44 | Calcium and titanium isotopic fractionations during evaporation. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 140, 365-380 | 5.5 | 35 |
| 43 | Petrogenesis of lavas from Detroit Seamount: Geochemical differences between Emperor Chain and Hawaiian volcanoes. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a | 3.6 | 33 |
| 42 | Isotope fractionation induced by phase transformation: First-principles investigation for Mg ₂ SiO ₄ . <i>Earth and Planetary Science Letters</i> , 2015 , 409, 339-347 | 5.3 | 32 |
| 41 | No Measurable Calcium Isotopic Fractionation During Crystallization of Kilauea Iki Lava Lake. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 3128-3139 | 3.6 | 32 |
| 40 | Compositional diversity of Mauna Kea shield lavas recovered by the Hawaii Scientific Drilling Project: Inferences on source lithology, magma supply, and the role of multiple volcanoes. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a | 3.6 | 31 |
| 39 | ¹⁴⁷ Sm- ¹⁴³ Nd systematics of Earth are inconsistent with a superchondritic Sm/Nd ratio. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4929-34 | 11.5 | 27 |
| 38 | Solar composition from the Genesis Discovery Mission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19147-51 | 11.5 | 25 |
| 37 | Ancient carbonate sedimentary signature in the Hawaiian plume: Evidence from Mahukona volcano, Hawaii. <i>Geochemistry, Geophysics, Geosystems</i> , 2009 , 10, n/a-n/a | 3.6 | 25 |
| 36 | First-principles investigation of the concentration effect on equilibrium fractionation of K isotopes in feldspars. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 245, 374-384 | 5.5 | 25 |
| 35 | Calcium isotope fractionation during crustal melting and magma differentiation: Granitoid and mineral-pair perspectives. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 259, 37-52 | 5.5 | 23 |
| 34 | First-principles investigation of equilibrium K isotope fractionation among K-bearing minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 264, 30-42 | 5.5 | 22 |
| 33 | Diverse mantle sources for Ninetyeast Ridge magmatism: Geochemical constraints from basaltic glasses. <i>Earth and Planetary Science Letters</i> , 2011 , 303, 215-224 | 5.3 | 22 |

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| 32 | Iron/manganese ratio and manganese content in shield lavas from Kōlae Volcano, Hawaii <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 4557-4569 | 5.5 | 21 |
| 31 | Depleted components in the source of hotspot magmas: Evidence from the Ninetyeast Ridge (Kerguelen). <i>Earth and Planetary Science Letters</i> , 2015 , 426, 293-304 | 5.3 | 18 |
| 30 | Equilibrium inter-mineral titanium isotope fractionation: Implication for high-temperature titanium isotope geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 269, 540-553 | 5.5 | 18 |
| 29 | The geochemical components that distinguish Loa- and Kea-trend Hawaiian shield lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 185, 160-181 | 5.5 | 17 |
| 28 | Stable chromium isotope fractionation during magmatic differentiation: Insights from Hawaiian basalts and implications for planetary redox conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 278, 289-304 | 5.5 | 16 |
| 27 | Compositional heterogeneity of the Sugarloaf melilite nephelinite flow, Honolulu Volcanics, Hawaii <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 185, 251-277 | 5.5 | 14 |
| 26 | The distribution of geochemical heterogeneities in the source of Hawaiian shield lavas as revealed by a transect across the strike of the Loa and Kea spatial trends: East Molokai to West Molokai to Penguin Bank. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 132, 214-237 | 5.5 | 14 |
| 25 | Discovery of davemaoite, CaSiO ₃ -perovskite, as a mineral from the lower mantle. <i>Science</i> , 2021 , 374, 891-894 | 5.5 | 14 |
| 24 | Missing lead and high ³ He/ ⁴ He in ancient sulfides associated with continental crust formation. <i>Scientific Reports</i> , 2014 , 4, 5314 | 4.9 | 12 |
| 23 | HIMU geochemical signature originating from the transition zone. <i>Earth and Planetary Science Letters</i> , 2020 , 542, 116323 | 5.3 | 11 |
| 22 | Formation of lunar highlands anorthosites. <i>Earth and Planetary Science Letters</i> , 2020 , 536, 116138 | 5.3 | 11 |
| 21 | Petrogenesis of high-CaO lavas from Mauna Kea, Hawaii: Constraints from trace element abundances. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 185, 198-215 | 5.5 | 11 |
| 20 | Bioavailability of Mineral-Bound Iron to a Snow Algal-Bacterial Coculture and Implications for Albedo-Altering Snow Algal Blooms. <i>Applied and Environmental Microbiology</i> , 2018 , 84, | 4.8 | 10 |
| 19 | An isotopically depleted lower mantle component is intrinsic to the Hawaiian mantle plume. <i>Nature Geoscience</i> , 2019 , 12, 487-492 | 18.3 | 9 |
| 18 | Is the mantle chemically stratified? Insights from sound velocity modeling and isotope evolution of an early magma ocean. <i>Earth and Planetary Science Letters</i> , 2016 , 440, 158-168 | 5.3 | 9 |
| 17 | Mantle geochemistry: Insights from ocean island basalts. <i>Science China Earth Sciences</i> , 2017 , 60, 1976-2006 | 18.3 | 8 |
| 16 | Dust condensation in evolving discs and the composition of planetary building blocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 495, 2543-2553 | 4.3 | 6 |
| 15 | Sr, Nd, Hf and Pb isotope systematics of postshield-stage lavas at Kahoolawe, Hawaii. <i>Chemical Geology</i> , 2013 , 360-361, 159-172 | 4.2 | 6 |

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| 14 | New geological-geophysical data on the structure of the Ninetyeast ridge. <i>Doklady Earth Sciences</i> , 2010 , 434, 1208-1213 | 0.6 | 5 |
| 13 | Snow Algae Preferentially Grow on Fe-containing Minerals and Contribute to the Formation of Fe Phases. <i>Geomicrobiology Journal</i> , 2020 , 37, 572-581 | 2.5 | 4 |
| 12 | Compositional variation within thick (>10 m) flow units of Mauna Kea Volcano cored by the Hawaii Scientific Drilling Project. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 185, 182-197 | 5.5 | 4 |
| 11 | Reply to Boslough: Is Greenland Pt anomaly global or local?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E5036 | 11.5 | 4 |
| 10 | Nickel isotopic evidence for late-stage accretion of Mercury-like differentiated planetary embryos. <i>Nature Communications</i> , 2021 , 12, 294 | 17.4 | 4 |
| 9 | Sulfur isotopic signature of Earth established by planetesimal volatile evaporation. <i>Nature Geoscience</i> , | 18.3 | 3 |
| 8 | Coupled deep-mantle carbon-water cycle: Evidence from lower-mantle diamonds. <i>Innovation(China)</i> , 2021 , 2, 100117 | 17.8 | 3 |
| 7 | Calcium isotope cosmochemistry. <i>Chemical Geology</i> , 2021 , 581, 120396 | 4.2 | 2 |
| 6 | Response to Comment on "Discovery of davemaoite, CaSiO-perovskite, as a mineral from the lower mantle".. <i>Science</i> , 2022 , 376, eabo2029 | 33.3 | 2 |
| 5 | Effects of Organic Compounds on Dissolution of the Phosphate Minerals Chlorapatite, Whitlockite, Merrillite, and Fluorapatite: Implications for Interpreting Past Signatures of Organic Compounds in Rocks, Soils and Sediments. <i>Astrobiology</i> , 2018 , 18, 1543-1558 | 3.7 | 1 |
| 4 | High-temperature inter-mineral potassium isotope fractionation: implications for K-Ca-Ar chronology.. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 2740-2754 | 3.2 | 1 |
| 3 | Pressure and concentration effects on intermineral calcium isotope fractionation involving garnet. <i>Chemical Geology</i> , 2022 , 591, 120722 | 4.2 | 0 |
| 2 | Maximum temperatures in evolving protoplanetary discs and composition of planetary building blocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 503, 5254-5262 | 4.3 | 0 |
| 1 | Magmas and their sources: A special issue honoring Frederick A. Frey. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 185, 1-8 | 5.5 | |