# Akira Miyake

List of Publications by Year
in descending order

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|---|---|---|---|
| 37 papers | 421 citations | 687363 13 h-index | 794594 19 g-index |
| 37 all docs | 37 docs citations | 37 times ranked | 600 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Eruption style and crystal size distributions: Crystallization of groundmass nanolites in the 2011 Shinmoedake eruption. American Mineralogist, 2017, 102, 2367-2380. | 1.9 | 46 |
| 2 | Behavior of zircon in the upper-amphibolite to granulite facies schist/migmatite transition, Ryoke metamorphic belt, SW Japan: constraints from the melt inclusions in zircon. Contributions To Mineralogy and Petrology, 2013, 165, 575-591. | 3.1 | 36 |
| 3 | Discovery of fossil asteroidal ice in primitive meteorite Acfer 094. Science Advances, 2019, 5, eaax5078. | 10.3 | 33 |
| 4 | Relationship between Raman spectral pattern and crystallographic orientation of a rockâ€forming mineral: a case study of Fo<sub>89</sub>Fa<sub>11</sub> olivine. Journal of Raman Spectroscopy, 2008, 39, 1653-1659. | 2.5 | 29 |
| 5 | Discovery of moganite in a lunar meteorite as a trace of H <sub>2</sub> O ice in the Moonâ€™s regolith. Science Advances, 2018, 4, eaar4378. | 10.3 | 21 |
| 6 | An isosymmetric phase transition of orthopyroxene found by high-temperature X-ray diffraction. American Mineralogist, 2008, 93, 1682-1685. | 1.9 | 20 |
| 7 | Temperature derivatives of elastic wave velocities in plagioclase (An51Â1) above and below the order-disorder transition temperature. American Mineralogist, 2008, 93, 558-564. | 1.9 | 20 |
| 8 | Isosymmetric structural phase transition of orthoenstatite: Molecular dynamics simulation. American Mineralogist, 2004, 89, 1667-1672. | 1.9 | 19 |
| 9 | Sillimaniteâ€mullite transformation observed in synchrotron Xâ€ray diffraction experiments. Journal of the American Ceramic Society, 2017, 100, 4928-4937. | 3.8 | 16 |
| 10 | Composition andI4/m-P4<sub>2</sub>/nphase transition in scapolite solid solutions. American Mineralogist, 2004, 89, 257-265. | 1.9 | 15 |
| 11 | Effect of the Ionic Size on Thermal Expansion of Low Cordierite by Molecular Dynamics Simulation. Journal of the American Ceramic Society, 2005, 88, 121-126. | 3.8 | 15 |
| 12 | Stability field of the high-temperature orthorhombic phase in the enstatite-diopside system. American Mineralogist, 2010, 95, 1267-1275. | 1.9 | 15 |
| 13 | Isochemical breakdown of garnet in orogenic garnet peridotite and its implication to reaction kinetics. Mineralogy and Petrology, 2013, 107, 881-895. | 1.1 | 15 |
| 14 | Metasomatic PGE mobilization by carbonatitic melt in the mantle: Evidence from sub-Î¼m-scale sulfideâ€“carbonaceous glass inclusion in Tahitian harzburgite xenolith. Chemical Geology, 2017, 475, 87-104. | 3.3 | 14 |
| 15 | Factors affecting preservation of coesite in ultrahighâ€pressure metamorphic rocks: Insights from <scp>TEM</scp> observations of dislocations within kyanite. Journal of Metamorphic Geology, 2019, 37, 401-414. | 3.4 | 11 |
| 16 | Effects of Ionic Size in the Tetrahedral and Octahedral Sites on the Thermal Expansion of Low-Temperature Cordierite. Journal of the American Ceramic Society, 2005, 88, 362-366. | 3.8 | 10 |
| 17 | Sample preparation toward seamless 3D imaging technique from micrometer to nanometer scale. Microscopy (Oxford, England), 2014, 63, i24-i25. | 1.5 | 8 |
| 18 | Condensation of Glass with Multimetal Nanoparticles: Implications for the Formation Process of GEMS Grains. Astrophysical Journal, 2021, 911, 47. | 4.5 | 7 |

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|---|---|---|---|
| 19 | Association of silica phases as geothermobarometer for eucrites: Implication for twoâ€stage thermal metamorphism in the eucritic crust. Meteoritics and Planetary Science, 2021, 56, 1086-1108. | 1.6 | 7 |
| 20 | Mineralogy of fine-grained matrix, fine-grained rim, chondrule rim, and altered mesostasis of a chondrule in Asuka 12169, one of the least altered CM chondrites. Polar Science, 2021, 29, 100727. | 1.2 | 7 |
| 21 | Molecular dynamics simulation of high-pressure clinoenstatite.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1998, 74, 105-109. | 3.8 | 6 |
| 22 | Clinopyroxene exsolution in wollastonite from Namaqualand granulite, South Africa. American Mineralogist, 2006, 91, 446-450. | 1.9 | 6 |
| 23 | Molecular dynamics simulations of MgSiO3enstatite and seismic discontinuity in the upper mantle. Geophysical Research Letters, 2005, 32, . | 4.0 | 5 |
| 24 | Determination of Al/Si order in sillimanite by high angular resolution electron channeling X-ray spectroscopy, and implications for determining peak temperatures of sillimanite. American Mineralogist, 2018, 103, 944-951. | 1.9 | 5 |
| 25 | Micro-excavation and direct chemical analysis of individual fluid inclusion by cryo-FIB-SEM-EDS: Application to the UHP talc-garnet-chloritoid schist from the Makbal Metamorphic Complex, Kyrgyz Tian-Shan. Geochemical Journal, 2018, 52, 59-67. | 1.0 | 5 |
| 26 | Howieite in meta-manganese siliceous rocks of Kurosegawa belt, western Kyushu, Japan. Journal of Mineralogical and Petrological Sciences, 2008, 103, 365-370. | 0.9 | 5 |
| 27 | Three-dimensional observation of GEMS grains: Their high-temperature condensation origin. Geochimica Et Cosmochimica Acta, 2022, 320, 207-222. | 3.9 | 5 |
| 28 | Experimental synthesis of isochemical kelyphite â€" a preliminary report. Journal of Mineralogical and Petrological Sciences, 2014, 109, 91-96. | 0.9 | 4 |
| 29 | Molecular dynamics simulation of Al/Si-ordered plagioclase feldspar. American Mineralogist, 2000, 85, 1159-1163. | 1.9 | 3 |
| 30 | Significance of an amorphous SiO<sub>2</sub> phase in a pseudomorph after coesite enclosed in garnet from ultrahighâ€pressure eclogite, Suâ€“Lu Belt, eastern China. Journal of Metamorphic Geology, 2018, 36, 843-854. | 3.4 | 3 |
| 31 | Formation process of sub-micrometer-sized metasomatic platinum-group element-bearing sulfides in a Tahitian harzburgite xenolith. Canadian Mineralogist, 2020, 58, 99-114. | 1.0 | 3 |
| 32 | Zoned quartz phenocrysts in supercooled melt inclusions in granulites from continental collision orogens. Island Arc, 2020, 29, e12374. | 1.1 | 2 |
| 33 | A new occurrence of retrogressed eclogite from the Sanbagawa belt of southwest Japan and its significance. Island Arc, 2019, 28, e12317. | 1.1 | 1 |
| 34 | Crustal anorthosite formation by deepâ€seated hydrothermal circulation beneath fastâ€spreading axis: Constraints from chronological approach, Sr isotope, and fluidâ€“chromite inclusion investigation. Island Arc, 2021, 30, e12423. | 1.1 | 1 |
| 35 | Cooling history of a tholeiitic basalt from Funagata Volcano deduced from microstructures of minerals.. Journal of Mineralogical and Petrological Sciences, 2000, 95, 1-8. | 0.9 | 1 |
| 36 | Mullite in a buchite from Asama volcano and its subâ€“micrometric coreâ€“rim texture with sillimanite. Journal of Mineralogical and Petrological Sciences, 2018, 113, 198-206. | 0.9 | 1 |

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| 37 | Tracht change of groundmass pyroxene crystals in decompression experiments. Journal of Mineralogical and Petrological Sciences, 2022, 117, n/a. | 0.9 | 1 |