

Akira Miyake

List of Publications by Year in descending order

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papers

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687363

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#	ARTICLE	IF	CITATIONS
1	Three-dimensional observation of GEMS grains: Their high-temperature condensation origin. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 320, 207-222.	3.9	5
2	Tracht change of groundmass pyroxene crystals in decompression experiments. <i>Journal of Mineralogical and Petrological Sciences</i> , 2022, 117, n/a.	0.9	1
3	Condensation of Glass with Multimetal Nanoparticles: Implications for the Formation Process of GEMS Grains. <i>Astrophysical Journal</i> , 2021, 911, 47.	4.5	7
4	Association of silica phases as geothermobarometer for eucrites: Implication for two-stage thermal metamorphism in the eucritic crust. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1086-1108.	1.6	7
5	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. <i>Polar Science</i> , 2021, 29, 100727.	1.2	7
6	Crustal anorthosite formation by deep-seated hydrothermal circulation beneath fast-spreading axis: Constraints from chronological approach, Sr isotope, and fluid-chromite inclusion investigation. <i>Island Arc</i> , 2021, 30, e12423.	1.1	1
7	Zoned quartz phenocrysts in supercooled melt inclusions in granulites from continental collision orogens. <i>Island Arc</i> , 2020, 29, e12374.	1.1	2
8	Formation process of sub-micrometer-sized metasomatic platinum-group element-bearing sulfides in a Tahitian harzburgite xenolith. <i>Canadian Mineralogist</i> , 2020, 58, 99-114.	1.0	3
9	A new occurrence of retrogressed eclogite from the Sanbagawa belt of southwest Japan and its significance. <i>Island Arc</i> , 2019, 28, e12317.	1.1	1
10	Discovery of fossil asteroidal ice in primitive meteorite Acfer 094. <i>Science Advances</i> , 2019, 5, eaax5078.	10.3	33
11	Factors affecting preservation of coesite in ultrahigh-pressure metamorphic rocks: Insights from TEM observations of dislocations within kyanite. <i>Journal of Metamorphic Geology</i> , 2019, 37, 401-414.	3.4	11
12	Significance of an amorphous SiO ₂ phase in a pseudomorph after coesite enclosed in garnet from ultrahigh-pressure eclogite, Su-Lu Belt, eastern China. <i>Journal of Metamorphic Geology</i> , 2018, 36, 843-854.	3.4	3
13	Discovery of moganite in a lunar meteorite as a trace of H ₂ O ice in the Moon's regolith. <i>Science Advances</i> , 2018, 4, eaar4378.	10.3	21
14	Determination of Al/Si order in sillimanite by high angular resolution electron channeling X-ray spectroscopy, and implications for determining peak temperatures of sillimanite. <i>American Mineralogist</i> , 2018, 103, 944-951.	1.9	5
15	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. <i>Geochemical Journal</i> , 2018, 52, 59-67.	1.0	5
16	Mullite in a buchite from Asama volcano and its sub-micrometric core-rim texture with sillimanite. <i>Journal of Mineralogical and Petrological Sciences</i> , 2018, 113, 198-206.	0.9	1
17	Metasomatic PGE mobilization by carbonatitic melt in the mantle: Evidence from sub-1/4m-scale sulfide-carbonaceous glass inclusion in Tahitian harzburgite xenolith. <i>Chemical Geology</i> , 2017, 475, 87-104.	3.3	14
18	Eruption style and crystal size distributions: Crystallization of groundmass nanolites in the 2011 Shinmoedake eruption. <i>American Mineralogist</i> , 2017, 102, 2367-2380.	1.9	46

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19	Sillimaniteâ€mullite transformation observed in synchrotron Xâ€ray diffraction experiments. Journal of the American Ceramic Society, 2017, 100, 4928-4937.	3.8	16
20	Sample preparation toward seamless 3D imaging technique from micrometer to nanometer scale. Microscopy (Oxford, England), 2014, 63, i24-i25.	1.5	8
21	Experimental synthesis of isochemical kelyphite â€” a preliminary report. Journal of Mineralogical and Petrological Sciences, 2014, 109, 91-96.	0.9	4
22	Isochemical breakdown of garnet in orogenic garnet peridotite and its implication to reaction kinetics. Mineralogy and Petrology, 2013, 107, 881-895.	1.1	15
23	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
24	Stability field of the high-temperature orthorhombic phase in the enstatite-diopside system. American Mineralogist, 2010, 95, 1267-1275.	1.9	15
25	Relationship between Raman spectral pattern and crystallographic orientation of a rockâ€forming mineral: a case study of Fo₈₉Fa₁₁ olivine. Journal of Raman Spectroscopy, 2008, 39, 1653-1659.	2.5	29
26	An isosymmetric phase transition of orthopyroxene found by high-temperature X-ray diffraction. American Mineralogist, 2008, 93, 1682-1685.	1.9	20
27	Temperature derivatives of elastic wave velocities in plagioclase (An ₅₁ Å1) above and below the order-disorder transition temperature. American Mineralogist, 2008, 93, 558-564.	1.9	20
28	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
29	Clinopyroxene exsolution in wollastonite from Namaqualand granulite, South Africa. American Mineralogist, 2006, 91, 446-450.	1.9	6
30	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
31	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
32	Molecular dynamics simulations of MgSiO ₃ enstatite and seismic discontinuity in the upper mantle. Geophysical Research Letters, 2005, 32, .	4.0	5
33	Composition and <i>I</i> / <i>m</i> - <i>P</i> ₂ / <i>n</i> phase transition in scapolite solid solutions. American Mineralogist, 2004, 89, 257-265.	1.9	15
34	Isosymmetric structural phase transition of orthoenstatite: Molecular dynamics simulation. American Mineralogist, 2004, 89, 1667-1672.	1.9	19
35	Molecular dynamics simulation of Al/Si-ordered plagioclase feldspar. American Mineralogist, 2000, 85, 1159-1163.	1.9	3
36	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

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37	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