

Atsushi Kyono

List of Publications by Year in descending order

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59
papers

767
citations

567281

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docs citations

59
times ranked

1225
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal decomposition process of dypingite $Mg_5(CO_3)_4(OH)2 \cdot 5H_2O$. <i>Materials Letters</i> , 2022, 308, 131125.	2.6	7
2	Phase transition and melting in zircon by nanosecond shock loading. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .	0.8	5
3	In situ and ex situ studies on thermal decomposition process of hydromagnesite $Mg_5(CO_3)_4(OH)2 \cdot 4H_2O$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 599-609.	3.6	6
4	Study on magnetite oxidation using synchrotron X-ray diffraction and X-ray absorption spectroscopy: Vacancy ordering transition in maghemite (Fe_2O_3). <i>Journal of Mineralogical and Petrological Sciences</i> , 2021, 116, 211-219.	0.9	5
5	Crystal structure of nesquehonite, $MgCO_3 \cdot 3H_2O$ by neutron diffraction and effect of pH on structural formulas of nesquehonite. <i>Journal of Mineralogical and Petrological Sciences</i> , 2021, 116, 96-103.	0.9	6
6	Effect of planetary ball milling and elutriation processes on the α - β phase transition of quartz. <i>Ganseki Kobutsu Kagaku</i> , 2021, 50, 79-86.	0.1	0
7	Can quasicrystals survive in planetary collisions?. <i>Progress in Earth and Planetary Science</i> , 2021, 8, .	3.0	3
8	Visualization of transformation toughening of zirconia ceramics during dynamic fracture. <i>Applied Physics Letters</i> , 2021, 118, 231901.	3.3	1
9	Temperature dependence of orientationally disordered SO_4 tetrahedra in mirabilite ($Na_2SO_4 \cdot 10H_2O$). <i>Journal of Solid State Chemistry</i> , 2021, 304, 122574.	2.9	0
10	Temperature dependence of amorphous magnesium carbonate structure studied by PDF and XAFS analyses. <i>Scientific Reports</i> , 2021, 11, 22876.	3.3	8
11	Structure changes of nanocrystalline mackinawite under hydrothermal conditions: formation of greigite and its structural properties. <i>Journal of Mineralogical and Petrological Sciences</i> , 2021, 116, 235-244.	0.9	1
12	<i>In Situ</i> Observation of the Phase Transition Behavior of Shocked Baddeleyite. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089592.	4.0	5
13	Development of shock-dynamics study with synchrotron-based time-resolved X-ray diffraction using an Nd:glass laser system. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 371-377.	2.4	5
14	Structure changes of nanocrystalline mackinawite under hydrothermal conditions. <i>Journal of Mineralogical and Petrological Sciences</i> , 2020, 115, 261-275.	0.9	5
15	Crystal structure change in grossular-free katoite solid solution: Oxygen position splitting in katoite. <i>Journal of Mineralogical and Petrological Sciences</i> , 2019, 114, 189-200.	0.9	8
16	Crystal structure change of katoite, $Ca_3Al_2(O_4D_4)_3$, with temperature at high pressure. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 459-469.	0.8	4
17	An in situ Raman study on katoite $Ca_3Al_2(O_4D_4)_3$ at high pressure. <i>Journal of Mineralogical and Petrological Sciences</i> , 2019, 114, 18-25.	0.9	2
18	An experimental study of symmetry lowering of analcime. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 381-390.	0.8	3

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19	A reply to comment on "An experimental study of symmetry lowering of analcime", Physics and Chemistry of Minerals, 2018, 45, 395-396.	0.8	1
20	High-pressure Single-crystal X-ray Diffraction Study on Minerals Related to the Earth's Mantle: Nihon Kessho Gakkaishi, 2018, 60, 32-39.	0.0	0
21	Formation of Fe(III) oxides on the magnetite surfaces in the low-temperature hydrothermal reaction. Journal of Mineralogical and Petrological Sciences, 2018, 113, 310-315.	0.9	3
22	Pressure-induced crystallization of biogenic hydrous amorphous silica. Journal of Mineralogical and Petrological Sciences, 2017, 112, 324-335.	0.9	5
23	Carbon substitution for oxygen in \pm -cristobalite. Journal of Mineralogical and Petrological Sciences, 2017, 112, 52-56.	0.9	4
24	Selenium substitution effect on crystal structure of stibnite (Sb_2S_3). Physics and Chemistry of Minerals, 2015, 42, 475-490.	0.8	17
25	X-ray diffraction study of the icosahedral AlCuFe quasicrystal at megabar pressures. Materials Letters, 2015, 161, 13-16.	2.6	5
26	The Co-Evolution of Fe-Oxides, Ti-Oxides, and Other Microbially Induced Mineral Precipitates In Sandy Sediments: Understanding the Role of Cyanobacteria In Weathering and Early Diagenesis. Journal of Sedimentary Research, 2015, 85, 1213-1227.	1.6	16
27	New structure of high-pressure body-centered orthorhombic Fe_2SiO_4 . American Mineralogist, 2015, 100, 1736-1743.	1.9	7
28	High-pressure behavior of cuprospinel $CuFe_2O_4$: Influence of the Jahn-Teller effect on the spinel structure. American Mineralogist, 2015, 100, 1752-1761.	1.9	24
29	Structural change induced by dehydration in ikaite ($CaCO_3 \cdot 6H_2O$). Journal of Mineralogical and Petrological Sciences, 2014, 109, 157-168.	0.9	10
30	Ab initio quantum chemical investigation of arsenic sulfide molecular diversity from As_4S_6 and As_4 . Physics and Chemistry of Minerals, 2013, 40, 717-731.	0.8	11
31	High-pressure phase transitions of $Fe_{3-x}Ti_xO_4$ solid solution up to 60 GPa correlated with electronic spin transition. American Mineralogist, 2013, 98, 736-744.	1.9	25
32	The influence of the Jahn-Teller effect at Fe^{2+} on the structure of chromite at high pressure. Physics and Chemistry of Minerals, 2012, 39, 131-141.	0.8	36
33	High-pressure Raman spectroscopic studies of ulvospinel Fe_2TiO_4 . American Mineralogist, 2011, 96, 1193-1198.	1.9	16
34	Growth and Raman spectroscopic characterization of As_4S_4 (II) single crystals. Journal of Crystal Growth, 2010, 312, 3490-3492.	1.5	1
35	X-ray single-crystal and optical spectroscopic study of chromian pumpellyite from Sarany, Urals, Russia. Journal of Mineralogical and Petrological Sciences, 2010, 105, 187-193.	0.9	5
36	Molecular conformation and anion configuration variations for As_4S_4 and As_4Se_4 in an anion-substituted solid solution. American Mineralogist, 2009, 94, 451-460.	1.9	12

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37	Compositional variability and crystal structural features of guanacoite. <i>American Mineralogist</i> , 2008, 93, 501-507.	1.9	0
38	Measurement error of chemical composition due to the mineral surface states. <i>Ganseki Kobutsu Kagaku</i> , 2008, 37, 78-87.	0.1	1
39	Distribution of chromium among the octahedral sites in chromian epidote from Iratsu, central Shikoku, Japan. <i>Journal of Mineralogical and Petrological Sciences</i> , 2007, 102, 240-254.	0.9	10
40	Experimental study of the effect of light intensity on arsenic sulfide (As ₄ S ₄) alteration. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 15-22.	3.9	15
41	Light-Induced Phase Transformation Mechanism from Realgar to Pararealgar. <i>Nihon Kessho Gakkaishi</i> , 2007, 49, 321-327.	0.0	0
42	Single crystal growth of Pb ₅ (P _x As _{1-x} O ₄) ₃ Cl solid solution with apatite type structure. <i>Journal of Crystal Growth</i> , 2006, 292, 129-135.	1.5	16
43	Single crystal growth of lead vanado-chlorapatite Pb ₅ (VO ₄) ₃ Cl using CsCl flux method. <i>Materials Letters</i> , 2006, 60, 3922-3926.	2.6	8
44	Re-investigation of the crystal structure of whewellite [Ca(C ₂ O ₄)·H ₂ O] and the dehydration mechanism of caoxite [Ca(C ₂ O ₄)·3H ₂ O]. <i>Mineralogical Magazine</i> , 2005, 69, 77-88.	1.4	70
45	The chemistry of allanite from the Daibosatsu Pass, Yamanashi, Japan. <i>Mineralogical Magazine</i> , 2005, 69, 403-423.	1.4	28
46	Crystal structures of chalcostibite (CuSbS ₂) and emplectite (CuBiS ₂): Structural relationship of stereochemical activity between chalcostibite and emplectite. <i>American Mineralogist</i> , 2005, 90, 162-165.	1.9	56
47	Light-induced degradation dynamics in realgar: in situ structural investigation using single-crystal X-ray diffraction study and X-ray photoelectron spectroscopy. <i>American Mineralogist</i> , 2005, 90, 1563-1570.	1.9	54
48	Chemical composition of ferrocolumbites from the Ishikawa-yama granitic pegmatites, Fukushima, Japan. <i>Ganseki Kobutsu Kagaku</i> , 2005, 34, 242-251.	0.1	2
49	The formation of omphacite in blue jadeitites by the Cottrell atmosphere. <i>Ganseki Kobutsu Kagaku</i> , 2005, 34, 288-293.	0.1	2
50	Structural variations induced by difference of the inert pair effect in the stibnite-bismuthinite solid solution series (Sb,Bi) ₂ S ₃ . <i>American Mineralogist</i> , 2004, 89, 932-940.	1.9	78
51	Hydrothermal synthesis and structural investigation of silver magnesium complex of benzenehexacarboxylic acid (mellitic acid), Ag ₂ Mg ₂ [C ₆ (COO) ₆]·8H ₂ O with two-dimensional layered structure. <i>Inorganica Chimica Acta</i> , 2004, 357, 2519-2524.	2.4	21
52	Structural reinvestigation of getchellite As _{0.98} Sb _{1.02} S _{3.00} . <i>American Mineralogist</i> , 2004, 89, 696-700.	1.9	9
53	Aluminum position in Rb-feldspar as determined by X-ray photoelectron spectroscopy. <i>Die Naturwissenschaften</i> , 2003, 90, 414-418.	1.6	6
54	Low-temperature crystal structures of stibnite implying orbital overlap of Sb 5s ² inert pair electrons. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 254-260.	0.8	66

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55	Crystal chemical behavior of Tl 6s ² lone electron pairs: Inert pair effect imposing constraints on the mineral species.. Ganseki Kobutsu Kagaku, 2001, 30, 180-189.	0.1	0
56	The crystal structure of synthetic TlAlSi ₃ O ₈ : Influence of the inert-pair effect of thallium on the feldspar structure. European Journal of Mineralogy, 2001, 13, 849-856.	1.3	15
57	Refinement of the crystal structure of a synthetic non-stoichiometric Rb-feldspar. Mineralogical Magazine, 2001, 65, 523-531.	1.4	18
58	The crystal structure of TlAlSiO ₄ : The role of inert pairs in exclusion of Tl from silicate minerals. American Mineralogist, 2000, 85, 1287-1293.	1.9	15
59	Synthesis of Thallium-leucite (TlAlSi ₂ O ₆) Pseudomorph after Analcime. Mineralogical Magazine, 1999, 63, 75-83.	1.4	5