Atsushi Kyono

List of Publications by Year
in descending order

59 papers	767 citations	567281 15 h-index	552781 26 g-index
59 all docs	59 docs citations	59 times ranked	1225 citing authors

#	Article	IF	Citations
1	Structural variations induced by difference of the inert pair effect in the stibnite-bismuthinite solid solution series (Sb,Bi)₂S₃. American Mineralogist, 2004, 89, 932-940.	1.9	78
2	Re-investigation of the crystal structure of whewellite [Ca(C2O4)Â·H2O] and the dehydration mechanism of caoxite [Ca(C2O4)Â·3H2O]. Mineralogical Magazine, 2005, 69, 77-88.	1.4	70
3	Low-temperature crystal structures of stibnite implying orbital overlap of Sb 5s 2 inert pair electrons. Physics and Chemistry of Minerals, 2002, 29, 254-260.	0.8	66
4	Crystal structures of chalcostibite (CuSbS2) and emplectite (CuBiS2): Structural relationship of stereochemical activity between chalcostibite and emplectite. American Mineralogist, 2005, 90, 162-165.	1.9	56
5	Light-induced degradation dynamics in realgar: in situ structural investigation using single-crystal X-ray diffraction study and X-ray photoelectron spectroscopy. American Mineralogist, 2005, 90, 1563-1570.	1.9	54
6	The influence of the Jahnâ€“Teller effect at Fe2+ on the structure of chromite at high pressure. Physics and Chemistry of Minerals, 2012, 39, 131-141.	0.8	36
7	The chemistry of allanite from the Daibosatsu Pass, Yamanashi, Japan. Mineralogical Magazine, 2005, 69, 403-423.	1.4	28
8	High-pressure phase transitions of Fe3-xTixO4 solid solution up to 60 GPa correlated with electronic spin transition. American Mineralogist, 2013, 98, 736-744.	1.9	25
9	High-pressure behavior of cuprospinel CuFe₂O₄: Influence of the Jahn-Teller effect on the spinel structure. American Mineralogist, 2015, 100, 1752-1761.	1.9	24
10	Hydrothermal synthesis and structural investigation of silver magnesium complex of benzenehexacarboxylic acid (mellitic acid), Ag2Mg2[C6(COO)6]Â·8H2O with two-dimensional layered structure. Inorganica Chimica Acta, 2004, 357, 2519-2524.	2.4	21
11	Refinement of the crystal structure of a synthetic non-stoichiometric Rb-feldspar. Mineralogical Magazine, 2001, 65, 523-531.	1.4	18
12	Selenium substitution effect on crystal structure of stibnite (Sb2S3). Physics and Chemistry of Minerals, 2015, 42, 475-490.	0.8	17
13	Single crystal growth of Pb5(PxAs1â^'xO4)3Cl solid solution with apatite type structure. Journal of Crystal Growth, 2006, 292, 129-135.	1.5	16
14	High-pressure Raman spectroscopic studies of ulvospinel Fe2TiO4. American Mineralogist, 2011, 96, 1193-1198.	1.9	16
15	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
16	The crystal structure of TlAlSiO₄: The role of inert pairs in exclusion of Tl from silicate minerals. American Mineralogist, 2000, 85, 1287-1293.	1.9	15
17	The crystal structure of synthetic TlAlSi3O8: Influence of the inert-pair effect of thallium on the feldspar structure. European Journal of Mineralogy, 2001, 13, 849-856.	1.3	15
18	Experimental study of the effect of light intensity on arsenic sulfide (As4S4) alteration. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 15-22.	3.9	15

#	Article	IF	Citations
19	Molecular conformation and anion configuration variations for As4S4 and As4Se4 in an anion-substituted solid solution. American Mineralogist, 2009, 94, 451-460.	1.9	12
20	Ab initio quantum chemical investigation of arsenic sulfide molecular diversity from As4S6 and As4. Physics and Chemistry of Minerals, 2013, 40, 717-731.	0.8	11
21	Distribution of chromium among the octahedral sites in chromian epidote from Iratsu, central Shikoku, Japan. Journal of Mineralogical and Petrological Sciences, 2007, 102, 240-254.	0.9	10
22	Structural change induced by dehydration in ikaite (CaCO3Â·6H2O). Journal of Mineralogical and Petrological Sciences, 2014, 109, 157-168.	0.9	10
23	Structural reinvestigation of getchellite As_{0.98}Sb_{1.02}S_{3.00}. American Mineralogist, 2004, 89, 696-700.	1.9	9
24	Single crystal growth of lead vanado-chlorapatite Pb5(VO4)3Cl using CsCl flux method. Materials Letters, 2006, 60, 3922-3926.	2.6	8
25	Crystal structure change in grossularâ€“Siâ€“free katoite solid solution: Oxygen position splitting in katoite. Journal of Mineralogical and Petrological Sciences, 2019, 114, 189-200.	0.9	8
26	Temperature dependence of amorphous magnesium carbonate structure studied by PDF and XAFS analyses. Scientific Reports, 2021, 11, 22876.	3.3	8
27	New structure of high-pressure body-centered orthorhombic Fe₂SiO₄. American Mineralogist, 2015, 100, 1736-1743.	1.9	7
28	Thermal decomposition process of dypingite Mg5(CO3)4(OH)2Â·5H2O. Materials Letters, 2022, 308, 131125.	2.6	7
29	Aluminum position in Rb-feldspar as determined by X-ray photoelectron spectroscopy. Die Naturwissenschaften, 2003, 90, 414-418.	1.6	6
30	In situ and ex situ studies on thermal decomposition process of hydromagnesite Mg5(CO3)4(OH)2Â·4H2O. Journal of Thermal Analysis and Calorimetry, 2021, 144, 599-609.	3.6	6
31	Crystal structure of nesquehonite, MgCO₃Â·3H(D)₂O by neutron diffraction and effect of pH on structural formulas of nesquehonite. Journal of Mineralogical and Petrological Sciences, 2021, 116, 96-103.	0.9	6
32	X-ray diffraction study of the icosahedral AlCuFe quasicrystal at megabar pressures. Materials Letters, 2015, 161, 13-16.	2.6	5
33	Pressureâ€“induced crystallization of biogenic hydrous amorphous silica. Journal of Mineralogical and Petrological Sciences, 2017, 112, 324-335.	0.9	5
34	In Situ Observation of the Phase Transition Behavior of Shocked Baddeleyite. Geophysical Research Letters, 2020, 47, e2020GL089592.	4.0	5
35	Study on magnetite oxidation using synchrotron Xâ€“ray diffraction and Xâ€“ray absorption spectroscopy: Vacancy ordering transition in maghemite (Î³â€“Fe₂O₃). Journal of Mineralogical and Petrological Sciences, 2021, 116, 211-219.	0.9	5
36	Development of shock-dynamics study with synchrotron-based time-resolved X-ray diffraction using an Nd:glass laser system. Journal of Synchrotron Radiation, 2020, 27, 371-377.	2.4	5

#	Article	IF	Citations
37	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
38	Structure changes of nanocrystalline mackinawite under hydrothermal conditions. Journal of Mineralogical and Petrological Sciences, 2020, 115, 261-275.	0.9	5
39	Synthesis of Thallium-leucite (TlAlSi2O6) Pseudomorph after Analcime. Mineralogical Magazine, 1999, 63, 75-83.	1.4	5
40	Phase transition and melting in zircon by nanosecond shock loading. Physics and Chemistry of Minerals, 2022, 49, .	0.8	5
41	Crystal structure change of katoite, Ca3Al2(O4D4)3, with temperature at high pressure. Physics and Chemistry of Minerals, 2019, 46, 459-469.	0.8	4
42	Carbon substitution for oxygen in Î±â€“cristobalite. Journal of Mineralogical and Petrological Sciences, 2017, 112, 52-56.	0.9	4
43	An experimental study of symmetry lowering of analcime. Physics and Chemistry of Minerals, 2018, 45, 381-390.	0.8	3
44	Formation of Fe(III)â€“oxides on the magnetite surfaces in the lowâ€“temperature hydrothermal reaction. Journal of Mineralogical and Petrological Sciences, 2018, 113, 310-315.	0.9	3
45	Can quasicrystals survive in planetary collisions?. Progress in Earth and Planetary Science, 2021, 8, .	3.0	3
46	An in situ Raman study on katoite Ca₃Al₂(O₄H₄)₃ at high pressure. Journal of Mineralogical and Petrological Sciences, 2019, 114, 18-25.	0.9	2
47	Chemical composition of ferrocolumbites from the Ishikawa-yama granitic pegmatites, Fukushima, Japan. Ganseki Kobutsu Kagaku, 2005, 34, 242-251.	0.1	2
48	The formation of omphacite in blue jadeitites by the Cottrell atmosphere. Ganseki Kobutsu Kagaku, 2005, 34, 288-293.	0.1	2
49	Growth and Raman spectroscopic characterization of As4S4 (II) single crystals. Journal of Crystal Growth, 2010, 312, 3490-3492.	1.5	1
50	A reply to comment on â€œAn experimental study of symmetry lowering of analcimeâ€• Physics and Chemistry of Minerals, 2018, 45, 395-396.	0.8	1
51	Visualization of transformation toughening of zirconia ceramics during dynamic fracture. Applied Physics Letters, 2021, 118, 231901.	3.3	1
52	Measurement error of chemical composition due to the mineral surface states. Ganseki Kobutsu Kagaku, 2008, 37, 78-87.	0.1	1
53	Structure changes of nanocrystalline mackinawite under hydrothermal conditions: formation of greigite and its structural properties. Journal of Mineralogical and Petrological Sciences, 2021, 116, 235-244.	0.9	1
54	Crystal chemical behavior of Tl 6s2 lone electron pairs: Inert pair effect imposing constraints on the mineral species.. Ganseki Kobutsu Kagaku, 2001, 30, 180-189.	0.1	0

#	Article	IF	Citations
55	Compositional variability and crystal structural features of guanacoite. American Mineralogist, 2008, 93, 501-507.	1.9	0
56	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
57	Effect of planetary ball milling and elutriation processes on the Î±-Î² phase transition of quartz. Ganseki Kobutsu Kagaku, 2021, 50, 79-86.	0.1	0
58	Temperature dependence of orientationally disordered SO4 tetrahedra in mirabilite (Na2SO4Â·10H2O). Journal of Solid State Chemistry, 2021, 304, 122574.	2.9	0
59	Light-Induced Phase Transformation Mechanism from Realgar to Pararealgar. Nihon Kessho Gakkaishi, 2007, 49, 321-327.	0.0	0