

Naoki Igawa

List of Publications by Year in descending order

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92
docs citations

92
times ranked

2645
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCoO ₃ . Chemistry of Materials, 2006, 18, 798-803.	6.7	299
2	Origin of the Monoclinic-to-Monoclinic Phase Transition and Evidence for the Centrosymmetric Crystal Structure of BiMnO ₃ . Journal of the American Chemical Society, 2007, 129, 971-977.	13.7	194
3	BiScO ₃ : \hat{A} Centrosymmetric BiMnO ₃ -type Oxide. Journal of the American Chemical Society, 2006, 128, 706-707.	13.7	124
4	New-Type Phase Transition of Li ₂ RuO ₃ with Honeycomb Structure. Journal of the Physical Society of Japan, 2007, 76, 033705.	1.6	109
5	Hydrogen in layered iron arsenides: Indirect electron doping to induce superconductivity. Physical Review B, 2011, 84, .	3.2	109
6	Preparation and characterization of single-phase SiC nanotubes and C-SiC coaxial nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 28, 431-438.	2.7	83
7	Transport and Magnetic Studies on the Spin State Transition of Pr _{1-x} Ca _x CoO ₃ up to High Pressure. Journal of the Physical Society of Japan, 2004, 73, 1987-1997.	1.6	80
8	Crystal Structure of Metastable Tetragonal Zirconia up to 1473 K. Journal of the American Ceramic Society, 2001, 84, 1169-1171.	3.8	74
9	Crystal and magnetic structures and their temperature dependence of Co ₂ Z-type hexaferrite (Ba,Sr) ₃ Co ₂ Fe ₂₄ O ₄₁ by high-temperature neutron diffraction. Journal of Applied Physics, 2006, 100, 043904.	2.5	69
10	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCrO ₃ . Chemistry of Materials, 2008, 20, 3765-3769.	6.7	69
11	Magnetic Structure of YBaCo ₄ O ₇ with Kagome and Triangular Lattices. Journal of the Physical Society of Japan, 2006, 75, 054707.	1.6	61
12	Crystal and Magnetic Structures and Properties of BiMnO ₃ \hat{I} . Journal of the American Chemical Society, 2010, 132, 8137-8144.	13.7	56
13	Crystal Structure of Metastable Tetragonal Zirconia by Neutron Powder Diffraction Study. Journal of the American Ceramic Society, 1993, 76, 2673-2676.	3.8	51
14	Determination of the crystal structure and charge density of (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O _{2.33} by Rietveld refinement and maximum entropy method analysis. Solid State Communications, 2009, 149, 41-44.	1.9	39
15	Cation distribution and crystallographic characterization of the quaternary spinel system Mg _x Co _{1-x} Cr _x Fe _{2-x} O ₄ . Journal of Alloys and Compounds, 2008, 454, 10-15.	5.5	31
16	Water-based sol-gel synthesis and crystal structure refinement of lanthanum silicate apatite. Solid State Ionics, 2008, 179, 2209-2215.	2.7	27
17	Topotactic Synthesis and Crystal Structure of a Highly Fluorinated Ruddlesden-Popper-Type Iron Oxide, Sr ₃ Fe ₂ O _{5+x} F _{2x} (x = 0.44). Chemistry of Materials, 2011, 23, 3652-3658.	6.7	27
18	Successive Magnetic Transitions of the Kagom \hat{A} Staircase Compound Co ₃ V ₂ O ₈ Studied in Various Magnetic Fields. Journal of the Physical Society of Japan, 2007, 76, 034706.	1.6	25

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19	Observation of hydrogen in deuterated methane hydrate by maximum entropy method with neutron powder diffraction. <i>Journal of Chemical Physics</i> , 2006, 125, 034505.	3.0	24
20	Mechanical Properties of Chemically Vapor-Infiltrated Silicon Carbide Structural Composites with Thin Carbon Interphases for Fusion and Advanced Fission Applications. <i>Materials Transactions</i> , 2005, 46, 527-535.	1.2	23
21	Powder neutron diffraction of La-apatite under low temperature. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 600, 319-321.	1.6	23
22	Temperature Dependence of the Raman Spectrum in Lithium Oxide Single Crystal. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2324-2326.	3.8	20
23	Crystal Structure and Nuclear Density Distribution of $\text{LiCo}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Analyzed by Rietveld/Maximum Entropy Method. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2144-2146.	3.8	19
24	Short range structure of $\text{B}_2\text{O}_3\text{-Cs}_2\text{O}$ glasses analyzed by x-ray diffraction and Raman spectroscopy. <i>Journal of Chemical Physics</i> , 1993, 99, 6890-6896.	3.0	18
25	Partial Disordered Phase of Ising Spin System in Distorted Triangular Lattice RbCoBr_3 . <i>Journal of the Physical Society of Japan</i> , 2008, 77, 104703.	1.6	18
26	Effect of Annealing on Crystal and Local Structures of Doped Zirconia Using Experimental and Computational Methods. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8447-8458.	3.1	18
27	Grain-Size Dependence of Thermal-Shock Resistance of Yttria-Doped Tetragonal Zirconia Polycrystals. <i>Journal of the American Ceramic Society</i> , 1990, 73, 2523-2525.	3.8	17
28	Electrical Properties of Cubic, Stabilized, Single $\text{ZrO}_2\text{-Gd}_2\text{O}_3$ Crystals. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2297-2299.	3.8	17
29	Magnetic correlations and the influence of atomic disorder in frustrated isosceles triangular lattice antiferromagnet CuMnO_2 . <i>Physical Review B</i> , 2011, 84, .	3.2	17
30	Determination of deuterium location in $\text{Ba}_3\text{Ca}_{1.18}\text{Nb}_{1.82}\text{O}_{8.73}$. <i>Solid State Ionics</i> , 2008, 179, 231-235.	2.7	16
31	Study of oxygen ion diffusion in $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{2.33}$ through in-situ neutron diffractions at 300 and 720K. <i>Physica B: Condensed Matter</i> , 2010, 405, 2091-2096.	2.7	16
32	Electrochemical Characteristics of Layered $\text{Li}_{1.95}\text{Mn}_{0.9}\text{Co}_{0.15}\text{O}_3$ (C_2/m) as a Lithium-Battery Cathode. <i>Journal of the Electrochemical Society</i> , 2012, 159, A300-A304.	2.9	15
33	CO_2 motion in carbon dioxide deuterohydrate determined by applying maximum entropy method to neutron powder diffraction data. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 899-905.	4.0	14
34	Local Lattice Distortion Caused by Short Range Charge Ordering in LiMn_2O_4 . <i>Journal of the Physical Society of Japan</i> , 2013, 82, 094601.	1.6	14
35	Neutron diffraction studies of the magnetic ordering in the spinel oxide system $\text{Mg}_x\text{Co}_{1-x}\text{Cr}_x\text{Fe}_2\text{O}_4$. <i>Journal of Alloys and Compounds</i> , 2008, 455, 98-105.	5.5	13
36	Thermal expansion of type A carbonate apatite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 173, 171-175.	3.5	13

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37	Cavity Formation in a SiC/SiC Composite under Simultaneous Irradiation of Hydrogen, Helium and Silicon Ions. <i>Materials Transactions</i> , 2005, 46, 536-542.	1.2	12
38	Neutron Diffraction Study of Distorted-Triangular-Lattice Ising-like Antiferromagnet TlCoCl ₃ . <i>Journal of the Physical Society of Japan</i> , 2006, 75, 034707.	1.6	12
39	Correlation effects among thermal displacements of atoms in KBr. <i>Solid State Ionics</i> , 2011, 192, 54-57.	2.7	12
40	Inter-atomic force constants of Ag ₂ O from diffuse neutron scattering measurement. <i>Solid State Ionics</i> , 2012, 225, 18-21.	2.7	12
41	The determination of deuterium site in SrZr _{0.95} Sc _{0.05} O ₃ ± by neutron powder diffraction. <i>Solid State Ionics</i> , 2006, 177, 2353-2356.	2.7	11
42	Location of deuterium atoms in BaSn _{0.5} In _{0.5} O _{2.75} ± at 77±473 K by neutron powder diffraction. <i>Solid State Ionics</i> , 2007, 178, 607-613.	2.7	9
43	Simultaneous separation of anionic, cationic, and neutral components in capillary liquid chromatography using mixed-bed column of hydrophilic and anion-exchange stationary phases. <i>Journal of Separation Science</i> , 2009, 32, 359-363.	2.5	9
44	High-pressure X-ray diffraction study on the structure of NaCl melt using synchrotron radiation. <i>American Mineralogist</i> , 1999, 84, 341-344.	1.9	8
45	Neutron powder diffraction and difference maximum entropy method analysis of protium- and deuterium-dissolved BaSn _{0.5} In _{0.5} O _{2.75} ±. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2632-2639.	2.9	8
46	Crystal Structures and Magnetic Properties of Nickel Chain Compounds PbM ₂ Ni ₆ Te ₃ O ₁₈ (M = Mn, Cd). <i>Inorganic Chemistry</i> , 2015, 54, 10725-10731.	4.0	8
47	Effect of gamma-ray irradiation on in-situ electrical conductivity of ZrO ₂ -10 mol% Gd ₂ O ₃ single crystal at elevated temperatures. <i>Journal of Nuclear Materials</i> , 1994, 209, 321-325.	2.7	7
48	Neutron powder diffraction study of methane deuterohydrate by the maximum entropy method. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1810-1814.	4.0	7
49	Study of Mechanism of Mixed Conduction Due to Electrons and Oxygen Ions in (La _{0.75} Sr _{0.25})MnO _{3.00} and (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O _{2.33} through Rietveld Refinement and MEM Analysis. <i>Electrochemistry</i> , 2009, 77, 161-168.	1.4	7
50	Spin State of Co ³⁺ in LaCo _{1-x} Rh _x O ₃ Investigated by Structural Phenomena. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 114606.	1.6	7
51	Phase-transformation study of metastable tetragonal zirconia powder. <i>Journal of Materials Science</i> , 1998, 33, 4747-4758.	3.7	6
52	Temperature Dependence of Magnetic Moment Orientation in Co ₂ Z-Type Hexaferrite Estimated by High-Temperature Neutron Diffraction. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 3151-3156.	1.5	6
53	Correlation effects among atomic thermal displacements in oscillatory diffuse neutron scattering of ZnSe. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 600, 237-239.	1.6	6
54	Crystal structure and lattice vibration of proton dissolved BaZr _{0.8} Sc _{0.2} O _{2.9} . <i>Solid State Ionics</i> , 2009, 180, 560-562.	2.7	6

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55	X ray diffraction analysis of molten KCl and KBr under pressure: Pressure-induced structural transition in melt. Geophysical Monograph Series, 1998, , 241-248.	0.1	5
56	Effect of Pb ²⁺ Pb correlation in diffuse scattering of powder PbF ₂ . Solid State Ionics, 2008, 179, 776-779.	2.7	5
57	Location of Deuterium Atoms in BaZr _{0.5} In _{0.5} O _{2.75±} by Neutron Powder Diffraction. Journal of Nuclear Science and Technology, 2008, 45, 122-127.	1.3	5
58	Deuteron ordering in ice containing impurities: A neutron diffraction study. Physica B: Condensed Matter, 2006, 385-386, 113-115.	2.7	4
59	Protonic conduction, crystal and electronic structures of La _{0.9} Ba _{1.1} Ga _{0.95} Mg _{0.05} O ₄ . Solid State Ionics, 2013, 253, 123-129.	2.7	3
60	A High Pressure Experiment of Powder Neutron Diffraction on the HRPD at JRR-3. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2008, 18, 170-172.	0.0	3
61	Magnetic Structures of Co ₂ TeO ₃ Cl ₂ . Journal of the Physical Society of Japan, 2007, 76, 084713.	1.6	2
62	Magnetic structural characterization of Mg ²⁺ Co ²⁺ Cr ferrite by neutron diffraction. Journal of Magnetism and Magnetic Materials, 2007, 310, 2722-2724.	2.3	2
63	Oscillatory diffuse scattering study by time-of-flight neutron scattering. Physica B: Condensed Matter, 2008, 403, 2557-2560.	2.7	2
64	Crystal Structure and Magnetic Properties of CoZn(TeO ₃)Br ₂ . Journal of the Physical Society of Japan, 2008, 77, 084707.	1.6	2
65	Inter-atomic distance and temperature dependence of correlation effects among thermal displacements. Solid State Ionics, 2009, 180, 480-482.	2.7	2
66	Fabrication of SiC/SiC with Dispersed Carbon Nano-Fibers Composite for Excellent Thermal Properties. , 0, , 327-334.		2
67	Preparation and Characterization of Magnesium-Silicon Based Oxide Coating on High-Crystalline SiC Fiber as an Interphase in SiC/SiC Composite. , 0, , 27-34.		2
68	Mg-Si-Al-O Coatings on Hi-Nicalon SiC Fiber by Alkoxide Method. Ceramic Engineering and Science Proceedings, 0, , 237-242.	0.1	2
69	Electrode Properties of Li ₂ MnO ₃ (<i>C</i>2/<i>m</i>1) for a Lithium-Battery Cathode in Several Charge-Discharge Potential Ranges. Transactions of the Materials Research Society of Japan, 2013, 38, 229-233.	0.2	2
70	Structural Studies of Pyrochlore-Related Spin-1/2 System Ag ₂ Cu ₂ O ₃ . Journal of the Physical Society of Japan, 2006, 75, 124601.	1.6	1
71	Estimation of inter-atomic force constants and phonon dispersion using correlation effects among thermal displacement of atoms in Ge. Journal of Non-Crystalline Solids, 2011, 357, 559-562.	3.1	1
72	Weak Ferromagnetic Ordering Disordered by Rh ³⁺ Ions for LaCo _{0.8} Rh _{0.2} O ₃ . , 2014, , .		1

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73	Estimation of Force Constants of Al from Diffuse Neutron Scattering Measurement. Journal of the Physical Society of Japan, 2014, 83, 074602.	1.6	1
74	Local Structural Analysis by Using Atomic Pair Distribution Function on Mixed Valence Compound LiMn ₂ O ₄ . , 2014, , .		1
75	Nuclear and Electron Density Distributions of LiMn ₂ O ₄ Analyzed by Combination of Rietveld/Maximum Entropy Method. E-Journal of Surface Science and Nanotechnology, 2015, 13, 247-252.	0.4	1
76	Inter-atomic force constants of BaF ₂ by diffuse neutron scattering measurement. AIP Conference Proceedings, 2015, , .	0.4	1
77	Neutron Diffraction Study of 1D Quantum Spin System Li ₂ ZrCuO ₄ with Incommensurate Magnetic Structure. , 2015, , .		1
78	CRYSTAL STRUCTURE AND HEAT CAPACITY OF Ba ₃ Ca _{1.18} Nb _{1.82} O _{8.73} . , 2006, , .		1
79	Neutron powder diffraction study of methane hydrate by the Rietveld refinement and maximum entropy method. Physica B: Condensed Matter, 2006, 385-386, 567-570.	2.7	0
80	Diffuse Scattering of $\hat{\Gamma}^3$ -PbF ₂ . Journal of the Physical Society of Japan, 2010, 79, 29-32.	1.6	0
81	Diffuse Neutron Scattering Calculation of Spinel Structure of LiMn ₂ O ₄ . , 2010, , .		0
82	Crystal Structure and Electron Density Distribution Analyses of Nd _{1-x} Ce _x O _{2-δ} for Electrolyte by Rietveld/Maximum Entropy Method. E-Journal of Surface Science and Nanotechnology, 2015, 13, 339-342.	0.4	0
83	Local Lattice Distortion Caused by Short-Range Charge Ordering in Transition Metal Oxides. , 2015, , .		0
84	Incommensurately modulated crystal structure of $\hat{\Gamma}^2$ (O $\hat{\epsilon}$ ²³)-type sodium cobalt oxide Na _x Co ₂ ($x \approx 0.78$). Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 371-377.	1.1	0
85	501 Synthesis and Microstructural Observation of Carbide Ceramic Composite Nanotubes by Surface Reforming of Carbon Nanotubes. The Proceedings of the Materials and Processing Conference, 2007, 2007.15, 313-314.	0.0	0
86	Introduction of Structural Investigations on Angular Dispersive Neutron Diffractometers. Hamon, 2013, 23, 147-153.	0.0	0
87	Local Disorder in Proton Conductor BaSn _{0.5} In _{0.5} O _{2.75} Analyzed by Neutron Diffraction/ Atomic Pair Distribution Function. Transactions of the Materials Research Society of Japan, 2018, 43, 329-332.	0.2	0
88	Introduction of High Resolution Powder Diffractometer HRPD. Hamon, 2021, 31, 20-21.	0.0	0