

Naoki Igawa

List of Publications by Year in descending order

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88
papers

2,047
citations

331670

21
h-index

243625

44
g-index

92
all docs

92
docs citations

92
times ranked

2645
citing authors

#	ARTICLE	IF	CITATIONS
1	Incommensurately modulated crystal structure of $\text{Na}_{1-x}\text{CoO}_2$ ($x \approx 0.78$). Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 371-377.	1.1	0
2	Introduction of High Resolution Powder Diffractometer HRPD. Hamon, 2021, 31, 20-21.	0.0	0
3	Local Disorder in Proton Conductor $\text{BaSn}_{0.5}\text{In}_{0.5}\text{O}_{2.75}$; Analyzed by Neutron Diffraction/ Atomic Pair Distribution Function. Transactions of the Materials Research Society of Japan, 2018, 43, 329-332.	0.2	0
4	Nuclear and Electron Density Distributions of LiMn_2O_4 ; Analyzed by Combination of Rietveld/Maximum Entropy Method. E-Journal of Surface Science and Nanotechnology, 2015, 13, 247-252.	0.4	1
5	Crystal Structure and Electron Density Distribution Analyses of $\text{Nd}_{1-x}\text{Ce}_x\text{O}_{2+\delta}$ for Electrolyte by Rietveld/Maximum Entropy Method. E-Journal of Surface Science and Nanotechnology, 2015, 13, 339-342.	0.4	0
6	Inter-atomic force constants of BaF_2 by diffuse neutron scattering measurement. AIP Conference Proceedings, 2015, , .	0.4	1
7	Local Lattice Distortion Caused by Short-Range Charge Ordering in Transition Metal Oxides. , 2015, , .		0
8	Neutron Diffraction Study of 1D Quantum Spin System $\text{Li}_2\text{ZrCuO}_4$ with Incommensurate Magnetic Structure. , 2015, , .		1
9	Effect of Annealing on Crystal and Local Structures of Doped Zirconia Using Experimental and Computational Methods. Journal of Physical Chemistry C, 2015, 119, 8447-8458.	3.1	18
10	Crystal Structures and Magnetic Properties of Nickel Chain Compounds $\text{PbM}_2\text{Ni}_6\text{Te}_3\text{O}_{18}$ (M = Mn, Cd). Inorganic Chemistry, 2015, 54, 10725-10731.	4.0	8
11	Weak Ferromagnetic Ordering Disordered by Rh^{3+} Ions for $\text{LaCo}_{0.8}\text{Rh}_{0.2}\text{O}_3$. , 2014, , .		1
12	Estimation of Force Constants of Al from Diffuse Neutron Scattering Measurement. Journal of the Physical Society of Japan, 2014, 83, 074602.	1.6	1
13	Local Structural Analysis by Using Atomic Pair Distribution Function on Mixed Valence Compound LiMn_2O_4 . , 2014, , .		1
14	Protonic conduction, crystal and electronic structures of $\text{La}_{0.9}\text{Ba}_{1.1}\text{Ga}_{0.95}\text{Mg}_{0.05}\text{O}_{4+\delta}$. Solid State Ionics, 2013, 253, 123-129.	2.7	3
15	Local Lattice Distortion Caused by Short Range Charge Ordering in LiMn_2O_4 . Journal of the Physical Society of Japan, 2013, 82, 094601.	1.6	14
16	Spin State of Co^{3+} in $\text{LaCo}_{1-x}\text{Rh}_x\text{O}_3$ Investigated by Structural Phenomena. Journal of the Physical Society of Japan, 2013, 82, 114606.	1.6	7
17	Electrode Properties of Li_2MnO_3 (&C<i>i>2</i> &C<i>i>m</i>) 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
18	Introduction of Structural Investigations on Angular Dispersive Neutron Diffractometers. Hamon, 2013, 23, 147-153.	0.0	0

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19	Electrochemical Characteristics of Layered $\text{Li}_{1.95}\text{Mn}_{0.9}\text{Co}_{0.15}\text{O}_3$ (C_2m) as a Lithium-Battery Cathode. Journal of the Electrochemical Society, 2012, 159, A300-A304.	2.9	15
20	Inter-atomic force constants of Ag_2O from diffuse neutron scattering measurement. Solid State Ionics, 2012, 225, 18-21.	2.7	12
21	Topotactic Synthesis and Crystal Structure of a Highly Fluorinated Ruddlesden-Popper-Type Iron Oxide, $\text{Sr}_3\text{Fe}_2\text{O}_{5+x}\text{F}_{2x}$ ($x \approx 0.44$). Chemistry of Materials, 2011, 23, 3652-3658.	6.7	27
22	Hydrogen in layered iron arsenides: Indirect electron doping to induce superconductivity. Physical Review B, 2011, 84, .	3.2	109
23	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
24	Magnetic correlations and the influence of atomic disorder in frustrated isosceles triangular lattice antiferromagnet CuMnO_2 . Physical Review B, 2011, 84, .	3.2	17
25	Correlation effects among thermal displacements of atoms in KBr . Solid State Ionics, 2011, 192, 54-57.	2.7	12
26	Diffuse Scattering of $\text{I}^3\text{-PbF}_2$. Journal of the Physical Society of Japan, 2010, 79, 29-32.	1.6	0
27	Thermal expansion of type A carbonate apatite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 171-175.	3.5	13
28	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. Physica B: Condensed Matter, 2010, 405, 2091-2096.	2.7	16
29	CO_2 motion in carbon dioxide deuterohydrate determined by applying maximum entropy method to neutron powder diffraction data. Journal of Physics and Chemistry of Solids, 2010, 71, 899-905.	4.0	14
30	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. Journal of the American Ceramic Society, 2010, 93, 2144-2146.	3.8	19
31	Diffuse Neutron Scattering Calculation of Spinel Structure of LiMn_2O_4 . , 2010, , .		0
32	Crystal and Magnetic Structures and Properties of BiMnO_3 . Journal of the American Chemical Society, 2010, 132, 8137-8144.	13.7	56
33	Simultaneous separation of anionic, cationic, and neutral components in capillary liquid chromatography using mixed-bed column of hydrophilic and anion-exchange stationary phases. Journal of Separation Science, 2009, 32, 359-363.	2.5	9
34	Powder neutron diffraction of La-apatite under low temperature. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 319-321.	1.6	23
35	Correlation effects among atomic thermal displacements in oscillatory diffuse neutron scattering of ZnSe . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 237-239.	1.6	6
36	Determination of the crystal structure and charge density of $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{2.33}$ by Rietveld refinement and maximum entropy method analysis. Solid State Communications, 2009, 149, 41-44.	1.9	39

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37	Inter-atomic distance and temperature dependence of correlation effects among thermal displacements. <i>Solid State Ionics</i> , 2009, 180, 480-482.	2.7	2
38	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
39	Neutron powder diffraction and difference maximum entropy method analysis of protium- and deuterium-dissolved BaSn _{0.5} In _{0.5} O _{2.75±1±} . <i>Journal of Solid State Chemistry</i> , 2009, 182, 2632-2639.	2.9	8
40	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
41	Determination of deuterium location in Ba ₃ Ca _{1.18} Nb _{1.82} O _{8.73} . <i>Solid State Ionics</i> , 2008, 179, 231-235.	2.7	16
42	Effect of Pb ²⁺ -Pb correlation in diffuse scattering of powder PbF ₂ . <i>Solid State Ionics</i> , 2008, 179, 776-779.	2.7	5
43	Water-based sol-gel synthesis and crystal structure refinement of lanthanum silicate apatite. <i>Solid State Ionics</i> , 2008, 179, 2209-2215.	2.7	27
44	Oscillatory diffuse scattering study by time-of-flight neutron scattering. <i>Physica B: Condensed Matter</i> , 2008, 403, 2557-2560.	2.7	2
45	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
46	Crystal Structure and Magnetic Properties of CoZn(TeO ₃)Br ₂ . <i>Journal of the Physical Society of Japan</i> , 2008, 77, 084707.	1.6	2
47	Cation distribution and crystallographic characterization of the quaternary spinel system Mg _x Co _{1-x} Cr _x Fe _{2-x} O ₄ . <i>Journal of Alloys and Compounds</i> , 2008, 454, 10-15.	5.5	31
48	Neutron diffraction studies of the magnetic ordering in the spinel oxide system Mg _x Co _{1-x} Cr _x Fe _{2-x} O ₄ . <i>Journal of Alloys and Compounds</i> , 2008, 455, 98-105.	5.5	13
49	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCrO ₃ . <i>Chemistry of Materials</i> , 2008, 20, 3765-3769.	6.7	69
50	Location of Deuterium Atoms in BaZr _{0.5} In _{0.5} O _{2.75±1±} by Neutron Powder Diffraction. <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 122-127.	1.3	5
51	A High Pressure Experiment of Powder Neutron Diffraction on the HRPD at JRR-3. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2008, 18, 170-172.	0.0	3
52	Successive Magnetic Transitions of the Kagomé Staircase Compound Co ₃ V ₂ O ₈ Studied in Various Magnetic Fields. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 034706.	1.6	25
53	New-Type Phase Transition of Li ₂ RuO ₃ with Honeycomb Structure. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 033705.	1.6	109
54	Magnetic Structures of Co ₂ TeO ₃ Cl ₂ . <i>Journal of the Physical Society of Japan</i> , 2007, 76, 084713.	1.6	2

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55	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
56	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
57	Location of deuterium atoms in BaSn _{0.5} In _{0.5} O _{2.75} ± at 77±473 K by neutron powder diffraction. Solid State Ionics, 2007, 178, 607-613.	2.7	9
58	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
59	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
60	Neutron Diffraction Study of Distorted-Triangular-Lattice Ising-like Antiferromagnet TlCoCl ₃ . Journal of the Physical Society of Japan, 2006, 75, 034707.	1.6	12
61	BiScO ₃ :A Centrosymmetric BiMnO ₃ -type Oxide. Journal of the American Chemical Society, 2006, 128, 706-707.	13.7	124
62	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCoO ₃ . Chemistry of Materials, 2006, 18, 798-803.	6.7	299
63	Deuteron ordering in ice containing impurities: A neutron diffraction study. Physica B: Condensed Matter, 2006, 385-386, 113-115.	2.7	4
64	The determination of deuteron site in SrZr _{0.95} Sc _{0.05} O ₃ ± by neutron powder diffraction. Solid State Ionics, 2006, 177, 2353-2356.	2.7	11
65	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
66	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
67	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
68	Observation of hydrogen in deuterated methane hydrate by maximum entropy method with neutron powder diffraction. Journal of Chemical Physics, 2006, 125, 034505.	3.0	24
69	CRYSTAL STRUCTURE AND HEAT CAPACITY OF Ba ₃ Ca _{1.18} Nb _{1.82} O _{8.73} . , 2006, , .		1
70	Cavity Formation in a SiC/SiC Composite under Simultaneous Irradiation of Hydrogen, Helium and Silicon Ions. Materials Transactions, 2005, 46, 536-542.	1.2	12
71	Mechanical Properties of Chemically Vapor-Infiltrated Silicon Carbide Structural Composites with Thin Carbon Interphases for Fusion and Advanced Fission Applications. Materials Transactions, 2005, 46, 527-535.	1.2	23
72	Neutron powder diffraction study of methane deuterohydrate by the maximum entropy method. Journal of Physics and Chemistry of Solids, 2005, 66, 1810-1814.	4.0	7

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73	Preparation and characterization of single-phase SiC nanotubes and C-SiC coaxial nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 28, 431-438.	2.7	83
74	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
75	Transport and Magnetic Studies on the Spin State Transition of Pr _{1-x} Ca _x CoO ₃ up to High Pressure. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 1987-1997.	1.6	80
76	Crystal Structure of Metastable Tetragonal Zirconia up to 1473 K. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1169-1171.	3.8	74
77	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
78	Phase-transformation study of metastable tetragonal zirconia powder. <i>Journal of Materials Science</i> , 1998, 33, 4747-4758.	3.7	6
79	X ray diffraction analysis of molten KCl and KBr under pressure: Pressure-induced structural transition in melt. <i>Geophysical Monograph Series</i> , 1998, , 241-248.	0.1	5
80	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
81	Crystal Structure of Metastable Tetragonal Zirconia by Neutron Powder Diffraction Study. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2673-2676.	3.8	51
82	Short range structure of B ₂ O ₃ -Cs ₂ O glasses analyzed by x-ray diffraction and Raman spectroscopy. <i>Journal of Chemical Physics</i> , 1993, 99, 6890-6896.	3.0	18
83	Electrical Properties of Cubic, Stabilized, Single ZrO ₂ -Gd ₂ O ₃ Crystals. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2297-2299.	3.8	17
84	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
85	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
86	Fabrication of SiC/SiC with Dispersed Carbon Nano-Fibers Composite for Excellent Thermal Properties. , 0, , 327-334.		2
87	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
88	Mg-Si-Al-O Coatings on Hi-Nicalon SiC Fiber by Alkoxide Method. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 237-242.	0.1	2