Satoshi Iikubo

List of Publications by Year
in descending order

70 papers	2,776 citations	236612 25 h-index	174990 52 g-index
71 all docs	71 docs citations	71 times ranked	3240 citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic structure and thermal conductance of the MASnI3/Bi2Te3 interface: a first-principles study. Scientific Reports, 2022, 12, 217.	1.6	5
2	Relationship between Carrier Density and Precursor Solution Stirring for Lead-Free Tin Halide Perovskite Solar Cells Performance. ACS Applied Energy Materials, 2022, 5, 4002-4007.	2.5	10
3	Influence of charge transport layer on the crystallinity and charge extraction of pure tin-based halide perovskite film. Journal of Energy Chemistry, 2022, 69, 612-615.	7.1	2
4	Structural and thermoelectric properties of CH₃NH₃SnI₃ perovskites processed by applying high pressure with shear strain. Materials Research Letters, 2022, 10, 521-529.	4.1	5
5	The Effect of Increasing Nickel Content on the Microstructure, Hardness, and Corrosion Resistance of the CuFeTiZrNix High-Entropy Alloys. Materials, 2022, 15, 3098.	1.3	5
6	Phase equilibria of the Cu-Zr-Ti ternary system at 703ÂÂ°C and the thermodynamic assessment and metallic glass region prediction of the Cu-Zr-Ti ternary system. Journal of Non-Crystalline Solids, 2021, 551, 120387.	1.5	10
7	Relationship between perovsktie solar cell efficiency and lattice disordering. Japanese Journal of Applied Physics, 2021, 60, 035001.	0.8	0
8	Impact of Auger recombination on performance limitation of perovskite solar cell. Solar Energy, 2021, 217, 342-353.	2.9	27
9	Bimetallic Sulfide SnS₂/FeS₂ Nanosheets as High-Performance Anode Materials for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 39248-39256.	4.0	51
10	Effect of Halogen Ions on the Low Thermal Conductivity of Cesium Halide Perovskite. Journal of Physical Chemistry C, 2021, 125, 91-97.	1.5	18
11	The Relationship between Crystal Structure and Mechanical Performance for Fabrication of Regenerated Cellulose Film through Coagulation Conditions. Polymers, 2021, 13, 4450.	2.0	6
12	Interface engineering using Y2O3 scaffold to enhance the thermoelectric performance of CsSnI3 thin film. Organic Electronics, 2020, 76, 105488.	1.4	27
13	Theoretical analysis of band alignment at back junction in Snâ€“Ge perovskite solar cells with inverted p-i-n structure. Solar Energy Materials and Solar Cells, 2020, 206, 110268.	3.0	66
14	Effect of Precursor Solution Aging on the Thermoelectric Performance of CsSnI3 Thin Film. Journal of Electronic Materials, 2020, 49, 2698-2703.	1.0	15
15	Structural stability and electronic property evaluations for different Bi2Te3 (0Â0Â1) termination surfaces. Applied Surface Science, 2020, 525, 146454.	3.1	4
16	Enhanced Device Performance with Passivation of the TiO₂ Surface Using a Carboxylic Acid Fullerene Monolayer for a SnPb Perovskite Solar Cell with a Normal Planar Structure. ACS Applied Materials & Interfaces, 2020, 12, 17776-17782.	4.0	24
17	Lead-free tin-halide perovskite solar cells with 13% efficiency. Nano Energy, 2020, 74, 104858.	8.2	347
18	Relationship between Lattice Strain and Efficiency for Sn-Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 31105-31110.	4.0	101

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19	Suppression of Charge Carrier Recombination in Lead-Free Tin Halide Perovskite via Lewis Base Post-treatment. Journal of Physical Chemistry Letters, 2019, 10, 5277-5283.	2.1	196
20	The Effect of Transparent Conductive Oxide Substrate on the Efficiency of SnGe-perovskite Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 597-602.	0.1	5
21	Pb-free Sn Perovskite Solar Cells Doped with Samarium Iodide. Chemistry Letters, 2019, 48, 836-839.	0.7	6
22	First-principles Calculations of the Effects of Mn, Cr, and Ni on Hydrogen Diffusion in BCC, FCC, and HCP Fe. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 231-239.	0.1	3
23	Key Factor for the Transformation from hcp to 18R-Type Long-Period Stacking Ordered Structure in Mg Alloys. Materials Transactions, 2019, 60, 237-245.	0.4	12
24	Experimental and Theoretical Elucidation of Electrochemical CO₂ Reduction on an Electrodeposited Cu₃Sn Alloy. Journal of Physical Chemistry C, 2019, 123, 3004-3010.	1.5	28
25	First-principles calculations of phase stability in magnesium based alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2019, 69, 447-454.	0.1	0
26	First-principles study of electronic and optical properties of lead-free double perovskites Cs2NaBX6 (B) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.9	129
27	Mixed Snâ€“Ge Perovskite for Enhanced Perovskite Solar Cell Performance in Air. Journal of Physical Chemistry Letters, 2018, 9, 1682-1688.	2.1	206
28	Phase equilibria of the Cu-Ni-Zr ternary systems at 800 Â°C and thermodynamic assessment and metallic glass region prediction for the Cu-Ni-Zr ternary system. Journal of Non-Crystalline Solids, 2018, 481, 612-621.	1.5	5
29	Thermodynamic Stability of Mg-Based Laves Phases. Materials Transactions, 2018, 59, 890-896.	0.4	5
30	Development of Organo-Dispersible Graphene Oxide via Pseudo-Surface Modification for Thermally Conductive Green Polymer Composites. ACS Omega, 2018, 3, 18124-18131.	1.6	8
31	An unconventional hydrogen effect that suppresses thermal formation of the hcp phase in fcc steels. Scientific Reports, 2018, 8, 16136.	1.6	15
32	Solutionâ€Processed Airâ€Stable Copper Bismuth Iodide for Photovoltaics. ChemSusChem, 2018, 11, 2930-2935.	3.6	39
33	Thermodynamic assessment of Feâ€“Tiâ€“S ternary phase diagram. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2017, 57, 62-77.	0.7	5
34	Structural Stability of Iodide Perovskite: A Combined Cluster Expansion Method and First-Principles Study. Journal of Physical Chemistry C, 2017, 121, 27797-27804.	1.5	23
35	Facile Synthesis and Characterization of Sulfur Doped Low Bandgap Bismuth Based Perovskites by Soluble Precursor Route. Chemistry of Materials, 2016, 28, 6436-6440.	3.2	87
36	Deposition of hydroxyapatite on SiC nanotubes in simulated body fluid. Materials Science and Engineering C, 2014, 34, 29-34.	3.8	7

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37	Ho-doping effect on the incommensurate magnetic order in La1.88Sr0.12CuO4. Journal of the Korean Physical Society, 2013, 62, 1840-1843.	0.3	0
38	Thermodynamic Analysis of Phase Equilibria in the Mg–Al–Ho Ternary System. Materials Transactions, 2013, 54, 647-655.	0.4	6
39	Thermodynamic Analysis of the Mg–RE–Zn (RE = Y, La) Ternary hcp Phase Using the Cluster Variation Method. Materials Transactions, 2013, 54, 636-640.	0.4	22
40	Phase stability of long-period stacking structures in Mg-Y-Zn: A first-principles study. Physical Review B, 2012, 86, .	1.1	44
41	Incommensurate Magnetic Excitation in Spin-Glass Phase of Bi2201 Cuprate. Journal of the Physical Society of Japan, 2011, 80, SB026.	0.7	5
42	Recent Trends and Future Perspectives of Phase Diagram Calculations. Journal of MMIJ, 2011, 127, 473-478.	0.4	2
43	Thermodynamic Database Integrated by Electron Theory and CALPHAD Modeling. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2011, 97, 166-172.	0.1	1
44	First-Principles Calculations of the Specific Heats of Cubic Carbides and Nitrides. Materials Transactions, 2010, 51, 574-577.	0.4	28
45	Local crystal structure of nano-manganese-oxide gold adsorbent. Journal of Physics and Chemistry of Solids, 2010, 71, 1603-1608.	1.9	6
46	Antiferromagnetic Fluctuations in Fe(Se_{1-<i>x</i>}Te_{<i>x</i>})_{0.92}(<i>x</i>= 0.75, 1) Observed by Inelastic Neutron Scattering. Journal of the Physical Society of Japan, 2009, 78, 103704.	0.7	23
47	Relationship between average and local crystal structure and the ferroelectric properties of a Srâ€"Biâ€"Taâ€"Siâ€"O ferroelectric material. Journal of Physics and Chemistry of Solids, 2009, 70, 1156-1165.	1.9	3
48	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCrO₃. Chemistry of Materials, 2008, 20, 3765-3769.	3.2	69
49	Origin of the Monoclinic-to-Monoclinic Phase Transition and Evidence for the Centrosymmetric Crystal Structure of BiMnO3. Journal of the American Chemical Society, 2007, 129, 971-977.	6.6	194
50	Local Crystal Structure of Multiferroic System BiMnO3by Atomic Pair Distribution Function Analysis. Journal of the Physical Society of Japan, 2007, 76, 124605.	0.7	27
51	BiScO3:Â Centrosymmetric BiMnO3-type Oxide. Journal of the American Chemical Society, 2006, 128, 706-707.	6.6	124
52	Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCoO3. Chemistry of Materials, 2006, 18, 798-803.	3.2	299
53	Local Crystal Structures of Ge2Sb2Te5Revealed by the Atomic Pair Distribution Function Analysis. Japanese Journal of Applied Physics, 2006, 45, 8789-8794.	0.8	21
54	On the Magnetic Excitation Spectra of High-Tc Cu Oxides at Energies Up to the Region Far above the Resonance Energy. Journal of the Physical Society of Japan, 2005, 74, 275-278.	0.7	10

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55	Magnetic Structure of Sr2MnO3.5. Journal of the Physical Society of Japan, 2005, 74, 1026-1029.	0.7	4
56	Magnetic Structures and Spin States of NdBaCo2O5.5. Journal of the Physical Society of Japan, 2004, 73, 2857-2862.	0.7	22
57	Magnetic Structures and Spin States of NdBaCo2O5. Journal of the Physical Society of Japan, 2004, 73, 464-468.	0.7	40
58	Studies on Magnetic Excitation Spectra of High-TcSuperconductors. Journal of the Physical Society of Japan, 2004, 73, 991-999.	0.7	5
59	Ferromagnetic Transition of Pyrochlore Compound Yb2Ti2O7. Journal of the Physical Society of Japan, 2003, 72, 3014-3015.	0.7	101
60	Neutron Scattering Studies of Pyrochlore Compound Nd2Mo2O7in Magnetic Field. Journal of the Physical Society of Japan, 2003, 72, 865-872.	0.7	26
61	Anomalous Hall Effect of Reentrant Spin Glass System Fe1-xAlx(xâ¯¼0.3). Journal of the Physical Society of Japan, 2003, 72, 1491-1494.	0.7	16
62	Effects of â€œStripesâ€•on the Magnetic Excitation Spectra of La1.48Nd0.4Sr0.12CuO4. Journal of the Physical Society of Japan, 2003, 72, 1627-1630.	0.7	9
63	Neutron Scattering Study of the Spin Correlation in the Spin Ice System Ho2Ti2O7. Journal of the Physical Society of Japan, 2002, 71, 313-318.	0.7	27
64	Detailed Structure of the Magnetic Excitation Spectra of YBa2Cu3Oy and Its Implication on the Physical Characteristics of the Electron System. Journal of the Physical Society of Japan, 2002, 71, 265-270.	0.7	20
65	Transport and NQR Studies of Nd1.6-xCexSr0.4CuO4with T*Structure. Journal of the Physical Society of Japan, 2002, 71, 538-542.	0.7	4
66	Magnetic Structure and the Hall Resistivity of Cu1-xZnxCr2Se4. Journal of the Physical Society of Japan, 2002, 71, 2792-2799.	0.7	12
67	Study on Anomalous Hall Resistivity of Nd2Mo2-xTixO7. Journal of the Physical Society of Japan, 2001, 70, 3006-3010.	0.7	20
68	Magnetic and Transport Properties of Phyrochlore Molybdates. Journal of the Physical Society of Japan, 2001, 70, 212-218.	0.7	28
69	Anomalous Hall Effect of Pyrochlore Molybdate Nd2Mo2O7. Journal of the Physical Society of Japan, 2000, 69, 3777-3780.	0.7	56
70	Lead-free tin halide perovskite solar cells beyond 10 % efficiency. , 0, , .		0