

Satoshi Iikubo

List of Publications by Year in descending order

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70
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236612

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docs citations

71
times ranked

3240
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Lead-free tin-halide perovskite solar cells with 13% efficiency. <i>Nano Energy</i> , 2020, 74, 104858. | 8.2 | 347 |
| 2 | Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCoO ₃ . <i>Chemistry of Materials</i> , 2006, 18, 798-803. | 3.2 | 299 |
| 3 | Mixed Sn ²⁺ /Ge Perovskite for Enhanced Perovskite Solar Cell Performance in Air. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1682-1688. | 2.1 | 206 |
| 4 | Suppression of Charge Carrier Recombination in Lead-Free Tin Halide Perovskite via Lewis Base Post-treatment. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5277-5283. | 2.1 | 196 |
| 5 | Origin of the Monoclinic-to-Monoclinic Phase Transition and Evidence for the Centrosymmetric Crystal Structure of BiMnO ₃ . <i>Journal of the American Chemical Society</i> , 2007, 129, 971-977. | 6.6 | 194 |
| 6 | First-principles study of electronic and optical properties of lead-free double perovskites Cs ₂ NaBX ₆ (B = Ti, Zr, Hf). <i>Journal of Applied Physics</i> , 2019, 125, 122401. | 1.9 | 129 |
| 7 | BiScO ₃ :A Centrosymmetric BiMnO ₃ -type Oxide. <i>Journal of the American Chemical Society</i> , 2006, 128, 706-707. | 6.6 | 124 |
| 8 | Ferromagnetic Transition of Pyrochlore Compound Yb ₂ Ti ₂ O ₇ . <i>Journal of the Physical Society of Japan</i> , 2003, 72, 3014-3015. | 0.7 | 101 |
| 9 | Relationship between Lattice Strain and Efficiency for Sn-Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31105-31110. | 4.0 | 101 |
| 10 | Facile Synthesis and Characterization of Sulfur Doped Low Bandgap Bismuth Based Perovskites by Soluble Precursor Route. <i>Chemistry of Materials</i> , 2016, 28, 6436-6440. | 3.2 | 87 |
| 11 | Neutron Powder Diffraction Study on the Crystal and Magnetic Structures of BiCrO ₃ . <i>Chemistry of Materials</i> , 2008, 20, 3765-3769. | 3.2 | 69 |
| 12 | Theoretical analysis of band alignment at back junction in Sn ²⁺ /Ge perovskite solar cells with inverted p-i-n structure. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110268. | 3.0 | 66 |
| 13 | Anomalous Hall Effect of Pyrochlore Molybdate Nd ₂ Mo ₂ O ₇ . <i>Journal of the Physical Society of Japan</i> , 2000, 69, 3777-3780. | 0.7 | 56 |
| 14 | Bimetallic Sulfide SnS ₂ /FeS ₂ Nanosheets as High-Performance Anode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39248-39256. | 4.0 | 51 |
| 15 | Phase stability of long-period stacking structures in Mg-Y-Zn: A first-principles study. <i>Physical Review B</i> , 2012, 86, . | 1.1 | 44 |
| 16 | Magnetic Structures and Spin States of NdBaCo ₂ O ₅ . <i>Journal of the Physical Society of Japan</i> , 2004, 73, 464-468. | 0.7 | 40 |
| 17 | Solution-Processed Air-Stable Copper Bismuth Iodide for Photovoltaics. <i>ChemSusChem</i> , 2018, 11, 2930-2935. | 3.6 | 39 |
| 18 | Magnetic and Transport Properties of Pyrochlore Molybdates. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 212-218. | 0.7 | 28 |

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|----|--|-----|-----------|
| 19 | First-Principles Calculations of the Specific Heats of Cubic Carbides and Nitrides. <i>Materials Transactions</i> , 2010, 51, 574-577. | 0.4 | 28 |
| 20 | Experimental and Theoretical Elucidation of Electrochemical CO ₂ Reduction on an Electrodeposited Cu ₃ Sn Alloy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3004-3010. | 1.5 | 28 |
| 21 | Neutron Scattering Study of the Spin Correlation in the Spin Ice System Ho ₂ Ti ₂ O ₇ . <i>Journal of the Physical Society of Japan</i> , 2002, 71, 313-318. | 0.7 | 27 |
| 22 | Local Crystal Structure of Multiferroic System BiMnO ₃ by Atomic Pair Distribution Function Analysis. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 124605. | 0.7 | 27 |
| 23 | Interface engineering using Y ₂ O ₃ scaffold to enhance the thermoelectric performance of CsSnI ₃ thin film. <i>Organic Electronics</i> , 2020, 76, 105488. | 1.4 | 27 |
| 24 | Impact of Auger recombination on performance limitation of perovskite solar cell. <i>Solar Energy</i> , 2021, 217, 342-353. | 2.9 | 27 |
| 25 | Neutron Scattering Studies of Pyrochlore Compound Nd ₂ Mo ₂ O ₇ in Magnetic Field. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 865-872. | 0.7 | 26 |
| 26 | Enhanced Device Performance with Passivation of the TiO ₂ Surface Using a Carboxylic Acid Fullerene Monolayer for a SnPb Perovskite Solar Cell with a Normal Planar Structure. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17776-17782. | 4.0 | 24 |
| 27 | Antiferromagnetic Fluctuations in Fe _{1-x} Te _x (x = 0.92 (x = 0.75, 1)) Observed by Inelastic Neutron Scattering. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 103704. | 0.7 | 23 |
| 28 | Structural Stability of Iodide Perovskite: A Combined Cluster Expansion Method and First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27797-27804. | 1.5 | 23 |
| 29 | Magnetic Structures and Spin States of NdBaCo ₂ O _{5.5} . <i>Journal of the Physical Society of Japan</i> , 2004, 73, 2857-2862. | 0.7 | 22 |
| 30 | Thermodynamic Analysis of the Mg–RE–Zn (RE = Y, La) Ternary hcp Phase Using the Cluster Variation Method. <i>Materials Transactions</i> , 2013, 54, 636-640. | 0.4 | 22 |
| 31 | Local Crystal Structures of Ge ₂ Sb ₂ Te ₅ Revealed by the Atomic Pair Distribution Function Analysis. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8789-8794. | 0.8 | 21 |
| 32 | Study on Anomalous Hall Resistivity of Nd ₂ Mo _{2-x} Ti _x O ₇ . <i>Journal of the Physical Society of Japan</i> , 2001, 70, 3006-3010. | 0.7 | 20 |
| 33 | Detailed Structure of the Magnetic Excitation Spectra of YBa ₂ Cu ₃ O _y and Its Implication on the Physical Characteristics of the Electron System. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 265-270. | 0.7 | 20 |
| 34 | Effect of Halogen Ions on the Low Thermal Conductivity of Cesium Halide Perovskite. <i>Journal of Physical Chemistry C</i> , 2021, 125, 91-97. | 1.5 | 18 |
| 35 | Anomalous Hall Effect of Reentrant Spin Glass System Fe _{1-x} Al _x (x ^{1/4} 0.3). <i>Journal of the Physical Society of Japan</i> , 2003, 72, 1491-1494. | 0.7 | 16 |
| 36 | An unconventional hydrogen effect that suppresses thermal formation of the hcp phase in fcc steels. <i>Scientific Reports</i> , 2018, 8, 16136. | 1.6 | 15 |

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|----|--|-----|-----------|
| 37 | Effect of Precursor Solution Aging on the Thermoelectric Performance of CsSnI ₃ Thin Film. Journal of Electronic Materials, 2020, 49, 2698-2703. | 1.0 | 15 |
| 38 | Magnetic Structure and the Hall Resistivity of Cu _{1-x} Zn _x Cr ₂ Se ₄ . Journal of the Physical Society of Japan, 2002, 71, 2792-2799. | 0.7 | 12 |
| 39 | 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 |
| 40 | 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 |
| 41 | Phase equilibria of the Cu-Zr-Ti ternary system at 703 Å°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 |
| 42 | 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 |
| 43 | Effects of "Stripes" on the Magnetic Excitation Spectra of La _{1.48} Nd _{0.4} Sr _{0.12} CuO ₄ . Journal of the Physical Society of Japan, 2003, 72, 1627-1630. | 0.7 | 9 |
| 44 | 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 |
| 45 | Deposition of hydroxyapatite on SiC nanotubes in simulated body fluid. Materials Science and Engineering C, 2014, 34, 29-34. | 3.8 | 7 |
| 46 | Local crystal structure of nano-manganese-oxide gold adsorbent. Journal of Physics and Chemistry of Solids, 2010, 71, 1603-1608. | 1.9 | 6 |
| 47 | Thermodynamic Analysis of Phase Equilibria in the Mg–Al–Ho Ternary System. Materials Transactions, 2013, 54, 647-655. | 0.4 | 6 |
| 48 | Pb-free Sn Perovskite Solar Cells Doped with Samarium Iodide. Chemistry Letters, 2019, 48, 836-839. | 0.7 | 6 |
| 49 | The Relationship between Crystal Structure and Mechanical Performance for Fabrication of Regenerated Cellulose Film through Coagulation Conditions. Polymers, 2021, 13, 4450. | 2.0 | 6 |
| 50 | Studies on Magnetic Excitation Spectra of High-Tc Superconductors. Journal of the Physical Society of Japan, 2004, 73, 991-999. | 0.7 | 5 |
| 51 | Incommensurate Magnetic Excitation in Spin-Glass Phase of Bi2201 Cuprate. Journal of the Physical Society of Japan, 2011, 80, SB026. | 0.7 | 5 |
| 52 | Thermodynamic assessment of Fe"Ti"S ternary phase diagram. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2017, 57, 62-77. | 0.7 | 5 |
| 53 | Phase equilibria of the Cu-Ni-Zr ternary systems at 800 Å°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 |
| 54 | Thermodynamic Stability of Mg-Based Laves Phases. Materials Transactions, 2018, 59, 890-896. | 0.4 | 5 |

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| 55 | 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 |
| 56 | Electronic structure and thermal conductance of the MASnI ₃ /Bi ₂ Te ₃ interface: a first-principles study. Scientific Reports, 2022, 12, 217. | 1.6 | 5 |
| 57 | Structural and thermoelectric properties of CH ₃ NH ₃ SnI ₃ perovskites processed by applying high pressure with shear strain. Materials Research Letters, 2022, 10, 521-529. | 4.1 | 5 |
| 58 | The Effect of Increasing Nickel Content on the Microstructure, Hardness, and Corrosion Resistance of the CuFeTiZrNi _x High-Entropy Alloys. Materials, 2022, 15, 3098. | 1.3 | 5 |
| 59 | Transport and NQR Studies of Nd _{1.6-x} Ce _x Sr _{0.4} CuO ₄ with T* Structure. Journal of the Physical Society of Japan, 2002, 71, 538-542. | 0.7 | 4 |
| 60 | Magnetic Structure of Sr ₂ MnO _{3.5} . Journal of the Physical Society of Japan, 2005, 74, 1026-1029. | 0.7 | 4 |
| 61 | Structural stability and electronic property evaluations for different Bi ₂ Te ₃ (0001) termination surfaces. Applied Surface Science, 2020, 525, 146454. | 3.1 | 4 |
| 62 | Relationship between average and local crystal structure and the ferroelectric properties of a Sr ²⁺ Bi ²⁺ Ta ⁵⁺ Si ⁴⁺ O ferroelectric material. Journal of Physics and Chemistry of Solids, 2009, 70, 1156-1165. | 1.9 | 3 |
| 63 | 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 |
| 64 | Recent Trends and Future Perspectives of Phase Diagram Calculations. Journal of MMIJ, 2011, 127, 473-478. | 0.4 | 2 |
| 65 | 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 |
| 66 | 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 |
| 67 | Ho-doping effect on the incommensurate magnetic order in La _{1.88} Sr _{0.12} CuO ₄ . Journal of the Korean Physical Society, 2013, 62, 1840-1843. | 0.3 | 0 |
| 68 | Relationship between perovskite solar cell efficiency and lattice disordering. Japanese Journal of Applied Physics, 2021, 60, 035001. | 0.8 | 0 |
| 69 | 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 |
| 70 | Lead-free tin halide perovskite solar cells beyond 10 % efficiency. , 0, , . | | 0 |