

Hajime Hojo

List of Publications by Year in descending order

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49
papers

1,091
citations

471477

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414395

32
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all docs

49
docs citations

49
times ranked

1571
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Structure of a CeO ₂ Grain Boundary: The Role of Oxygen Vacancies. Nano Letters, 2010, 10, 4668-4672.	9.1	173
2	Enhanced Piezoelectric Response due to Polarization Rotation in Cobalt-Substituted BiFeO ₃ Epitaxial Thin Films. Advanced Materials, 2016, 28, 8639-8644.	21.0	72
3	Development of Bismuth Ferrite as a Piezoelectric and Multiferroic Material by Cobalt Substitution. Advanced Materials, 2018, 30, e1705665.	21.0	66
4	A-Site and B-Site Charge Orderings in an <i>sd</i> Level Controlled Perovskite Oxide PbCoO ₃ . Journal of the American Chemical Society, 2017, 139, 4574-4581.	13.7	52
5	Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in BiMn ₃ Cr ₄ O ₁₂ . Advanced Materials, 2017, 29, 1703435.	21.0	50
6	Melting of Pb Charge Glass and Simultaneous Pb-Cr Charge Transfer in PbCrO ₃ as the Origin of Volume Collapse. Journal of the American Chemical Society, 2015, 137, 12719-12728.	13.7	45
7	Ferromagnetism at Room Temperature Induced by Spin Structure Change in BiFe _{1-x} Co _x O ₃ Thin Films. Advanced Materials, 2017, 29, 1603131.	21.0	45
8	Photocatalytic oxidation process for treatment of gas phase benzene using Ti ³⁺ self-doped TiO ₂ microsphere with sea urchin-like structure. Chemical Engineering Journal, 2020, 402, 126220.	12.7	41
9	Temperature-Independent, Large Dielectric Constant Induced by Vacancy and Partial Anion Order in the Oxyfluoride Pyrochlore Pb ₂ Ti ₂ O ₆ F ₂ . Chemistry of Materials, 2016, 28, 5554-5559.	6.7	38
10	Efficient visible light photocatalysis enabled by the interaction between dual cooperative defect sites. Applied Catalysis B: Environmental, 2020, 274, 119099.	20.2	34
11	Atomic structure and strain field of threading dislocations in CeO ₂ thin films on yttria-stabilized ZrO ₂ . Applied Physics Letters, 2011, 98, 153104.	3.3	32
12	Room-temperature ferrimagnetic semiconductor 0.6FeTiO ₃ ·0.4Fe ₂ O ₃ solid solution thin films. Applied Physics Letters, 2006, 89, 142503.	3.3	30
13	New PbTiO ₃ -Type Giant Tetragonal Compound Bi ₂ ZnVO ₆ and Its Stability under Pressure. Chemistry of Materials, 2015, 27, 2012-2017.	6.7	30
14	Enhanced Negative Thermal Expansion Induced by Simultaneous Charge Transfer and Polar-Nonpolar Transitions. Journal of the American Chemical Society, 2019, 141, 19397-19403.	13.7	30
15	Large Negative Thermal Expansion Induced by Synergistic Effects of Ferroelectrostriction and Spin Crossover in PbTiO ₃ -Based Perovskites. Chemistry of Materials, 2019, 31, 1296-1303.	6.7	29
16	Direct Observation of Magnetization Reversal by Electric Field at Room Temperature in Co-Substituted Bismuth Ferrite Thin Film. Nano Letters, 2019, 19, 1767-1773.	9.1	23
17	Controlling Diphenyl Ether Hydrogenolysis Selectivity by Tuning the Pt Support and H-Donors under Mild Conditions. ACS Catalysis, 2021, 11, 12661-12672.	11.2	20
18	Removal of benzene by non-thermal plasma catalysis over manganese oxides through a facile synthesis method. Environmental Science and Pollution Research, 2019, 26, 8237-8247.	5.3	19

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19	Structural evolution and enhanced piezoresponse in cobalt-substituted BiFeO ₃ thin films. Applied Physics Express, 2014, 7, 091501.	2.4	18
20	A new LiNbO ₃ -type polar oxide with closed-shell cations: ZnPbO ₃ . Journal of Applied Physics, 2015, 118, .	2.5	17
21	Effect of catalyst composition and reactor configuration on benzene oxidation with a nonthermal plasma-catalyst combined reactor. Catalysis Today, 2019, 332, 144-152.	4.4	17
22	Observation of novel charge ordering and spin reorientation in perovskite oxide PbFeO ₃ . Nature Communications, 2021, 12, 1917.	12.8	17
23	Enhanced catalytic performance of spinel-type Cu-Mn oxides for benzene oxidation under microwave irradiation. Journal of Hazardous Materials, 2022, 424, 127523.	12.4	16
24	Atomic and Electronic Structure of Pt/TiO ₂ Catalysts and Their Relationship to Catalytic Activity. Nano Letters, 2022, 22, 145-150.	9.1	16
25	High-Temperature Monoclinic <i>Cc</i> Phase with Reduced <i>c/a</i> Ratio in Bi-based Perovskite Compound Bi ₂ ZnTi _{1-x} Mn _x O ₆ . Inorganic Chemistry, 2016, 55, 6124-6129.	4.0	12
26	Systematic charge distribution changes in Bi- and Pb-3d transition metal perovskites. Dalton Transactions, 2018, 47, 1371-1377.	3.3	12
27	Catalytic Removal of Benzene at Mild Temperature over Manganese Oxide Catalysts. Catalysis Surveys From Asia, 2019, 23, 199-209.	2.6	12
28	Perovskite-Type CuNbO ₃ Exhibiting Unusual Noncollinear Ferrielectric to Collinear Ferroelectric Dipole Order Transition. Chemistry of Materials, 2020, 32, 5016-5027.	6.7	11
29	Polarization Rotation at Morphotropic Phase Boundary in New Lead-Free Na _{1/2} Bi _{1/2} V _{1-x} Ti _x O ₃ Piezoceramics. ACS Applied Materials & Interfaces, 2021, 13, 5208-5215.	8.0	11
30	Functional Transition Metal Perovskite Oxides with 6 ^s Lone Pair Activity Stabilized by High-Pressure Synthesis. Annual Review of Materials Research, 2021, 51, 329-349.	9.3	11
31	Fabrication of p-type ferrimagnetic semiconductor thin films based on FeTiO ₃ –Fe ₂ O ₃ solid solution. Journal of Magnetism and Magnetic Materials, 2007, 310, 2105-2107.	2.3	10
32	Room temperature ferromagnetism in BiFe _{1-x} Mn _x O ₃ thin film induced by spin-structure manipulation. Applied Physics Letters, 2018, 112, .	3.3	10
33	Analysis of TEM images of metallic nanoparticles using convolutional neural networks and transfer learning. Journal of Magnetism and Magnetic Materials, 2021, 538, 168225.	2.3	9
34	Sodium titanium oxide bronze nanoparticles synthesized <i>via</i> concurrent reduction and Na ⁺ -doping into TiO ₂ (B). Nanoscale, 2019, 11, 1442-1450.	5.6	8
35	Catalyst design of Pt/TiO ₂ microsphere for benzene oxidation under microwave irradiation. Catalysis Today, 2021, 376, 285-291.	4.4	8
36	Rational Design of Cu-Doped ZnS Nanospheres for Photocatalytic Evolution of H ₂ with Visible Light. ACS Applied Energy Materials, 2022, 5, 1849-1857.	5.1	8

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37	Insights into the Hydrogenolysis Mechanism of Diphenyl Ether over Cl-Modified Pt/I ³ -Al ₂ O ₃ Catalysts by Experimental and Theoretical Studies. ACS Sustainable Chemistry and Engineering, 2022, 10, 8897-8907.	6.7	7
38	High-Pressure Synthesis of the Cobalt Pyrochlore Oxide Pb ₂ Co ₂ O ₇ with Large Cation Mixed Occupancy. Inorganic Chemistry, 2017, 56, 11676-11680.	4.0	6
39	Magnetic properties of disordered ferrite and ilmenite-hematite thin films. Journal of Magnetism and Magnetic Materials, 2009, 321, 818-821.	2.3	4
40	Modulating the Structure and Magnetic Properties of μ -Fe ₂ O ₃ Nanoparticles via Electrochemical Li ⁺ Insertion. Inorganic Chemistry, 2020, 59, 4357-4365.	4.0	4
41	Topochemical synthesis of perovskite-type CuNb ₂ O ₆ with colossal dielectric constant. Journal of Materials Chemistry C, 2021, 9, 13981-13990.	5.5	4
42	Photocatalytic hydroxylation of benzene to phenol with dioxygen using sodium decatungstate. Molecular Catalysis, 2021, 515, 111933.	2.0	4
43	Piezoelectric Materials: Enhanced Piezoelectric Response due to Polarization Rotation in Cobalt-Substituted BiFeO ₃ Epitaxial Thin Films (Adv. Mater. 39/2016). Advanced Materials, 2016, 28, 8785-8785.	21.0	3
44	Magnetic Ordering and Structural Transition in the Ordered Double-Perovskite Pb ₂ NiMoO ₆ . Chemistry of Materials, 2022, 34, 97-106.	6.7	3
45	Band Engineering-Tuned Localized Surface Plasmon Resonance in Diverse-Phased Cu ₂ S _x Se _{1-x} Nanocrystals. Journal of Physical Chemistry C, 2022, 126, 8107-8112.	3.1	3
46	Mapping electrostatic potential around a Pt nanoparticle supported on TiO ₂ (110). Microscopy and Microanalysis, 2021, 27, 2308-2309.	0.4	1
47	Automatic Hologram Acquisition of Pt Catalyst Nanoparticles on TiO ₂ Using Particle Detection with Image Processing and AI Classification. Microscopy and Microanalysis, 2021, 27, 252-253.	0.4	0
48	Fabrication and characterization of La-added MgFe ₂ O ₄ as catalyst support for CO oxidation. Ceramics International, 2021, 47, 32786-32786.	4.8	0
49	Enhanced Piezoelectric Response in Orientation-Controlled BiFe _{1-x} GaxO ₃ Thin Films with Polarization Rotation. ACS Applied Electronic Materials, 0, , .	4.3	0