

# Ikuya Yamada

## List of Publications by Citations

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4,656  
ext. citations

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L-index

#	Paper	IF	Citations
173	Magnetocapacitance effect in multiferroic BiMnO <sub>3</sub> . <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	837
172	Covalency-reinforced oxygen evolution reaction catalyst. <i>Nature Communications</i> , <b>2015</b> , 6, 8249	17.4	308
171	Epitaxial growth of Al on Si(111) and Si(100) by ionized-cluster beam. <i>Journal of Applied Physics</i> , <b>1984</b> , 56, 2746-2750	2.5	165
170	Quasiparticle interference and superconducting gap in Ca <sub>2-x</sub> NaxCuO <sub>2</sub> Cl <sub>2</sub> . <i>Nature Physics</i> , <b>2007</b> , 3, 865-871	16.2	138
169	A perovskite containing quadrivalent iron as a charge-disproportionated ferrimagnet. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7032-5	16.4	123
168	Bifunctional Oxygen Reaction Catalysis of Quadruple Manganese Perovskites. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603004	24	114
167	Giant negative thermal expansion in the iron perovskite SrCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6579-82	16.4	107
166	Coherence factors in a high- <i>t<sub>c</sub></i> cuprate probed by quasi-particle scattering off vortices. <i>Science</i> , <b>2009</b> , 323, 923-6	33.3	98
165	Electrical properties of TiO <sub>2</sub> films deposited by a reactive-ionized cluster beam. <i>Journal of Applied Physics</i> , <b>1989</b> , 65, 619-623	2.5	96
164	Magnetic ground-state of perovskite PbVO <sub>3</sub> with large tetragonal distortion. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 7355-9	5.1	92
163	Low temperature epitaxy by ionized-cluster beam. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1986</b> , 4, 722-727	2.9	74
162	Metallization by ionized cluster beam deposition. <i>IEEE Transactions on Electron Devices</i> , <b>1987</b> , 34, 1018-1025	10.25	67
161	Anthracene and polyethylene thin film depositions by ionized cluster beam. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1986</b> , 4, 52-60	2.9	66
160	Magnetoresistance and electronic structure of the half-metallic ferrimagnet BiCu <sub>3</sub> Mn <sub>4</sub> O <sub>12</sub> . <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	63
159	Systematic Study of Descriptors for Oxygen Evolution Reaction Catalysis in Perovskite Oxides. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 27885-27892	3.8	58
158	Room-temperature polar ferromagnet ScFeO <sub>3</sub> transformed from a high-pressure orthorhombic perovskite phase. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 15291-9	16.4	56
157	Growth of Na-doped Ca(2)CuO(2)Cl(2) single crystals under high pressures of several GPa. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12275-8	16.4	55

156	Surface processing by gas cluster ion beams at the atomic (molecular) level. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1996</b> , 14, 781-785	2.9	54
155	Characteristics of TiO <sub>2</sub> films deposited by a reactive ionized cluster beam. <i>Journal of Applied Physics</i> , <b>1985</b> , 58, 4146-4149	2.5	53
154	Smoothing of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films by ion cluster beam bombardment. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 246-248	3.4	51
153	Metallic versus insulating behavior in the A-site ordered perovskite oxides ACu <sub>3</sub> Co <sub>4</sub> O <sub>12</sub> (A=Ca and Y) controlled by Mott and Zhang-Rice physics. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	45
152	Control of bond-strain-induced electronic phase transitions in iron perovskites. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 13751-61	5.1	42
151	A-Site and B-Site Charge Orderings in an s-d Level Controlled Perovskite Oxide PbCoO. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4574-4581	16.4	38
150	Pd(2+)-incorporated perovskite CaPd <sub>3</sub> B <sub>4</sub> O <sub>12</sub> (B = Ti, V). <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 1604-9	5.1	38
149	Synergistically Enhanced Oxygen Evolution Reaction Catalysis for Multielement Transition-Metal Oxides. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3711-3721	6.1	36
148	Direct observation of the ferrimagnetic coupling of A-site Cu and B-site Fe spins in charge-disproportionated CaCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	36
147	LiNbO <sub>3</sub> -Type InFeO <sub>3</sub> : Room-Temperature Polar Magnet without Second-Order Jahn-Teller Active Ions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6644-6655	9.6	33
146	Suppression of intersite charge transfer in charge-disproportionated perovskite YCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> . <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6100-6	16.4	32
145	ZIF-Derived CoNiS Nanoparticles Immobilized on N-Doped Carbons as Efficient Catalysts for High-Performance Zinc-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 5847-5856	9.5	31
144	Valence transitions in negative thermal expansion material SrCu <sub>2</sub> Fe <sub>2</sub> O <sub>7</sub> . <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 10563-9	5.1	30
143	Sol-gel preparation of Ni/TiO <sub>2</sub> catalysts with bimodal pore structures. <i>Applied Catalysis A: General</i> , <b>2010</b> , 383, 66-72	5.1	28
142	Synthesis of Binary Magnesium-Transition Metal Oxides via Inverse Coprecipitation. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 025501	1.4	27
141	Synthesis, Structure, and Physical Properties of A-site Ordered Perovskites ACu <sub>3</sub> Co <sub>4</sub> O <sub>12</sub> (A= Ca and Y). <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5328-5332	9.6	27
140	The formation and kinetics of Ionized Cluster Beams. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , <b>1986</b> , 3, 137-142		27
139	Inverse Charge Transfer in the Quadruple Perovskite CaCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> . <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 1715-9.1	5.1	24

138	High-pressure synthesis of BaVO <sub>3</sub> : A new cubic perovskite. <i>Journal of Physics and Chemistry of Solids</i> , <b>2014</b> , 75, 710-712	3.9	24
137	Room-temperature pressure-induced nanostructural CuInTe <sub>2</sub> thermoelectric material with low thermal conductivity. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 6844-9	5.1	24
136	Novel catalytic properties of quadruple perovskites. <i>Science and Technology of Advanced Materials</i> , <b>2017</b> , 18, 541-548	7.1	23
135	Oxygen Evolution via the Bridging Inequivalent Dual-Site Reaction: First-Principles Study of a Quadruple-Perovskite Oxide Catalyst. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 28403-28411	3.8	23
134	A-site-ordered perovskite MnCu <sub>3</sub> V <sub>4</sub> O <sub>12</sub> with a 12-coordinated manganese(II). <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 11538-43	5.1	23
133	A high performance 50 nm PMOSFET using decaborane (B <sub>10</sub> H <sub>14</sub> ) ion implantation and 2-step activation annealing process		23
132	Channeling study of structural effects at the Al(111)/Si(111) interface formed by ionized cluster beam deposition. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 1062-1064	3.4	23
131	Charge-order melting in charge-disproportionated perovskite CeCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> . <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 11794-801	5.1	21
130	Gas Cluster Ion Beam Processing for ULSI Fabrication. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 427, 265		20
129	Preparation of doped amorphous silicon films by ionized-cluster beam deposition. <i>Journal of Applied Physics</i> , <b>1983</b> , 54, 1583-1587	2.5	19
128	Enhanced Catalytic Activity and Stability of the Oxygen Evolution Reaction on Tetravalent Mixed Metal Oxide. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3893-3903	9.6	19
127	Complementary evaluation of structure stability of perovskite oxides using bond-valence and density-functional-theory calculations. <i>Science and Technology of Advanced Materials</i> , <b>2018</b> , 19, 101-107	7.1	18
126	High-pressure synthesis, electronic states, and structure-property relationships of perovskite oxides, ACu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> (A: divalent alkaline earth or trivalent rare-earth ion). <i>Journal of the Ceramic Society of Japan</i> , <b>2014</b> , 122, 846-851	1	18
125	Rattling in the Quadruple Perovskite CuCu <sub>3</sub> V <sub>4</sub> O <sub>12</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10870-4	16.4	18
124	True negative thermal expansion in Mn-doped LaCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> perovskite oxides. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 231906	3.4	18
123	Effect of surface roughness on field emission from chemical vapor deposited polycrystalline diamond. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1288-1290	3.4	18
122	MOLECULAR-DYNAMICS SIMULATION OF SURFACE SPUTTERING BY ENERGETIC RARE-GAS CLUSTER IMPACT. <i>Surface Review and Letters</i> , <b>1996</b> , 03, 1023-1027	1.1	18
121	High-pressure synthesis of highly oxidized Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> cubic perovskite. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 1209-1217	7.8	17

120	Single-layer oxychloride superconductor $\text{Ca}_{2-x}\text{CuO}_2\text{Cl}_2$ with A-site cation deficiency. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	16
119	Decaborane (B/sub 10/H/sub 14/) ion implantation technology for sub-0.1- $\mu\text{m}$ PMOSFET's. <i>IEEE Transactions on Electron Devices</i> , <b>1999</b> , 46, 683-689	2.9	16
118	Al surface mobility on Si(111) during initial stages of ionized cluster beam deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1988</b> , 6, 1552-1556	2.9	16
117	High-pressure synthesis and electrochemical properties of tetragonal $\text{LiMnO}_2$ . <i>RSC Advances</i> , <b>2018</b> , 8, 26325-26334	3.7	15
116	Incommensurate spin correlations induced by magnetic Fe ions substituted into overdoped $\text{Bi}_{1.75}\text{Pb}_{0.35}\text{Sr}_{1.90}\text{CuO}_{6+z}$ . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	15
115	$\text{CaCu}_3\text{Pt}_4\text{O}_{12}$ : the first perovskite with the B site fully occupied by Pt(4+). <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 6778-80	5.1	15
114	Electromigration behavior of ionized cluster beam deposited aluminum films on $\text{SiO}_2$ . <i>Applied Physics Letters</i> , <b>1988</b> , 53, 1765-1767	3.4	15
113	Morphology and dispersion control of titania-silica monolith with macro-meso pore system. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 64, 684-693	2.3	14
112	Aluminum surface mobility on silicon nitride and on several silicon oxides. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1990</b> , 8, 1447-1452	2.9	14
111	Magnetic Properties of Shandite-Phase $\text{Co}_3\text{FexSn}_2\text{S}_2$ ( $x = 0\text{--}1.0$ ) Obtained with High Pressure Synthesis. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 044705	1.5	13
110	Highly active hydrogen evolution catalysis on oxygen-deficient double-perovskite oxide $\text{PrBaCo}_2\text{O}_{6-x}$ . <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 1519-1529	7.8	13
109	Optical and structural characteristics of $\text{Al}_2\text{O}_3$ films deposited by the reactive ionized cluster beam method. <i>Journal of Applied Physics</i> , <b>1988</b> , 63, 241-244	2.5	13
108	Columbite-Type $\text{TiO}_2$ as a Negative Electrode Material for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A3590-A3594	3.9	12
107	Synthesis of 3-buten-1-ol from 1,4-butanediol over indium oxide. <i>Applied Catalysis A: General</i> , <b>2010</b> , 383, 134-140	5.1	12
106	A Perovskite Containing Quadrivalent Iron as a Charge-Disproportionated Ferrimagnet. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 7140-7143	3.6	12
105	Magnetic Phase Diagram of Hole-Doped $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$ Cuprate Superconductor. <i>Journal of the Physical Society of Japan</i> , <b>2005</b> , 74, 2408-2412	1.5	12
104	Range and Damage Distribution in Cluster Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 438, 363		12
103	Electromigration behavior of aluminum films deposited on silicon by ionized cluster beam and other techniques. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 18-20	3.4	12

102	Phonon anomalies and lattice dynamics in the superconducting oxchlorides $\text{Ca}_2\text{CuO}_2\text{Cl}_2$ . <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	11
101	Giant Negative Thermal Expansion in the Iron Perovskite $\text{SrCu}_3\text{Fe}_4\text{O}_{12}$ . <i>Angewandte Chemie</i> , <b>2011</b> , 123, 6709-6712	3.6	11
100	Novel materials processing and applications. by gas cluster ion beams. <i>European Physical Journal D</i> , <b>1999</b> , 9, 55-61	1.3	11
99	Synthesis of Rhombohedral $\text{LiCoMnO}$ Using a High-Pressure Method. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 6684-6695	5.1	10
98	B-site deficiencies in A-site-ordered perovskite $\text{LaCu}_3\text{Pt}(3.75)\text{O}_{12}$ . <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3985-9	5.1	10
97	SPUTTERING WITH GAS CLUSTER-ION BEAMS. <i>Surface Review and Letters</i> , <b>1996</b> , 03, 1017-1021	1.1	10
96	Structural and Electrochemical Analyses on the Transformation of $\text{CaFeO}$ -Type $\text{LiMnO}$ from Spinel-Type $\text{LiMnO}$ . <i>ACS Omega</i> , <b>2019</b> , 4, 6459-6467	3.9	9
95	High-pressure study of $\text{Li}[\text{Li}_{1/3}\text{Ti}_{5/3}]\text{O}_4$ spinel. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1941-1949	6.8	9
94	High-pressure synthesis, crystal structure, and unusual valence state of novel perovskite oxide $\text{CaCu}_3\text{Rh}_4\text{O}_{12}$ . <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 7089-91	5.1	9
93	Direct observation of negative thermal expansion in $\text{SrCu}_3\text{Fe}_4\text{O}_{12}$ . <i>Journal of the Ceramic Society of Japan</i> , <b>2013</b> , 121, 912-914	1	9
92	Irradiation Effects of Ar-Cluster Ion Beams on Si Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 316, 1005		9
91	Thin Film Deposition and Growth Processes by Ionized Cluster Beams. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 206, 383		9
90	Covalency Competition in the Quadruple Perovskite $\text{CdCuFeO}$ . <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9303-9310	5.1	8
89	Polycarbonate surface modified by argon cluster ion beams. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1999</b> , 17, 2653		8
88	Various magnetic states for novel layered cobalt oxides $\text{CaCo}_6\text{O}_{11}$ and $\text{BaCo}_6\text{O}_{11}$ . <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 2696-2701	7.8	8
87	Room-temperature zero thermal expansion in a cubic perovskite oxide $\text{SrCu}_3\text{Fe}_4\text{Mn}_x\text{O}_{12}$ . <i>Applied Physics Letters</i> , <b>2015</b> , 106, 151901	3.4	7
86	A robust thermal-energy-storage property associated with electronic phase transitions for quadruple perovskite oxides. <i>Chemical Communications</i> , <b>2020</b> , 56, 5500-5503	5.8	7
85	Structural and electronic transformations in quadruple iron perovskite $\text{Ca}_{1-x}\text{Sr}_x\text{Cu}_3\text{Fe}_4\text{O}_{12}$ . <i>Journal of Asian Ceramic Societies</i> , <b>2017</b> , 5, 169-175	2.4	7

84	Suppression of geometric frustration by magnetoelastic coupling in AuCrS <sub>2</sub> . <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7
83	LOW-DAMAGE SURFACE TREATMENT BY GAS CLUSTER-ION BEAMS. <i>Surface Review and Letters</i> , <b>1996</b> , 03, 891-895	1.1	7
82	Single crystal growth of transition metal oxides at high pressures of several GPa. <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 392-396, 22-28	1.3	7
81	A Sequential Electron Doping for Quadruple Perovskite Oxides CuCoO (= Ca, Y, Ce). <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 8699-8706	5.1	6
80	AgCu <sub>3</sub> V <sub>4</sub> O <sub>12</sub> : a novel perovskite containing mixed-valence silver ions. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 13824-6	5.1	6
79	Cluster ion implantation for shallow junction formation		6
78	Ammonia Cluster Beam for Group-III Nitride Synthesis. <i>Physica Status Solidi A</i> , <b>2000</b> , 180, 251-256		6
77	High-intensity oxygen cluster ion beam generation and its application to cluster ion-assisted deposition. <i>European Physical Journal D</i> , <b>1999</b> , 9, 635-638	1.3	6
76	Structure, Magnetism, and Electrochemistry of LiMgZnVO Spinel with 0 $\mu\text{m}$ . <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 777-789	5.1	6
75	Effects of zinc ions at tetrahedral sites in spinel oxides on catalytic activity for oxygen evolution reaction. <i>Journal of Catalysis</i> , <b>2021</b> , 394, 50-57	7.3	6
74	First-principles study of defect-induced potentials in Ca <sub>2</sub> CuO <sub>2</sub> Cl <sub>2</sub> . <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	5
73	Thermal Stability of Metal Films Deposited by Ionized Cluster Beams. <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 101, 195		5
72	Electrocatalytic Activity of Tetravalent Fe <sub>2</sub> O <sub>3</sub> Mixed Oxide for Oxygen and Hydrogen Evolution Reactions. <i>Materials Transactions</i> , <b>2020</b> , 61, 1507-1509	1.3	5
71	?-FeOOH: A Novel Negative Electrode Material for Li- and Na-Ion Batteries. <i>ACS Omega</i> , <b>2020</b> , 5, 10115-10122	3.9	5
70	Perovskite-Type CuNbO <sub>3</sub> Exhibiting Unusual Noncollinear Ferrielectric to Collinear Ferroelectric Dipole Order Transition. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5016-5027	9.6	4
69	Two-Step Suppression of Charge Disproportionation in CaCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> under High Pressure. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 034716	1.5	4
68	New phases of binary compounds: CsCl-type RuGe and RuSn. <i>Europhysics Letters</i> , <b>2014</b> , 107, 56003	1.6	4
67	Perovskite-Type InCoO with Low-Spin Co: Effect of In-O Covalency on Structural Stabilization in Comparison with Rare-Earth Series. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 11113-11122	5.1	4



66	Phase Relations among D03, $\alpha$ -Mg, and Long-Period Stacking Orders in Mg <sub>85</sub> Zn <sub>6</sub> Y <sub>9</sub> Alloy under 3 GPa. <i>Materials Transactions</i> , <b>2015</b> , 56, 910-913	1.3	4
65	Shallow junction formation by polyatomic cluster ion implantation		4
64	High Quality Oxide Film Formation by O <sub>2</sub> Cluster Ion Assisted Deposition Technique. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 504, 87		4
63	Size Dependence of Bombardment Characteristics Produced by Cluster Ion Beams. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 504, 93		4
62	Non-linear effects in high energy cluster ion implantation <b>1997</b> ,		4
61	Molecular Dynamics Simulation of the Effects of Energetic Cluster Ion Impact on Solid Surface. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 316, 999		4
60	GAS CLUSTER ION BEAMS FOR PROCESSING NEW MATERIALS <b>1998</b> , 74-85		4
59	Cation Dimerization in a 3d Honeycomb Lattice System.. <i>Journal of the American Chemical Society</i> , <b>2021</b> ,	16.4	4
58	Effect of Zn substitution for Cu on near the hole concentration of per Cu. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 713-716	2.8	3
57	Volume and structural study of Fe <sub>64</sub> Mn <sub>36</sub> anti-ferromagnetic Invar alloy under high pressure. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2011</b> , 323, 838-841	2.8	3
56	Single crystal growth of A-site deficient superconductor Ca <sub>2-x</sub> CuO <sub>2</sub> Cl <sub>2</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 420-421	1.3	3
55	A muon-spin relaxation study of BiMnO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 376203	1.8	3
54	Single Crystal Growth of Ca <sub>2-x</sub> Na <sub>x</sub> CuO <sub>2</sub> Cl <sub>2</sub> and Related Compounds at High Pressures of Several GPa. <i>Journal of Low Temperature Physics</i> , <b>2003</b> , 131, 671-679	1.3	3
53	Low Temperature Epitaxial Growth of TiO <sub>2</sub> Rutile Films by ICB Deposition and Mechanical Properties in Helium Implanted Rutile Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 316, 905		3
52	Thin films prepared by simultaneous deposition of copper and free-base phthalocyanine. <i>European Physical Journal D</i> , <b>1993</b> , 43, 905-909		3
51	High-pressure synthesis of $\beta$ -FeOOH from $\alpha$ -FeOOH and its application to the water oxidation catalyst.. <i>RSC Advances</i> , <b>2020</b> , 10, 44756-44767	3.7	3
50	Effects of Size and Crystallinity of CaCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> on Catalytic Activity for Oxygen Evolution Reaction. <i>Materials Transactions</i> , <b>2020</b> , 61, 1698-1702	1.3	3
49	Oxygen Evolution Catalysis for Iron Oxides with Various Structures. <i>Materials Transactions</i> , <b>2020</b> , 61, 1523-1526	1.3	3



48	Emergence of a Cubic Phase Stabilized by Intermetallic Charge Transfer in (1-x)PbVO <sub>3</sub> -xBiCoO <sub>3</sub> Solid Solutions. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6892-6897	9.6	3
47	First-principles calculations of the OH <sup>-</sup> adsorption energy on perovskite oxide <b>2016</b> ,		3
46	PtCo <sub>3</sub> Nanoparticle-Encapsulated Carbon Nanotubes as Active Catalysts for Methanol Fuel Cell Anodes. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 1445-1454	5.6	3
45	Structure and thermoelectric transport analysis of defect-containing CuGaTe <sub>2</sub> prepared by room-temperature high-pressure treatment. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 035105	2.5	2
44	New Progress on Development of Oxygen Evolution Reaction Catalysts. <i>Journal of MMIJ</i> , <b>2017</b> , 133, 264-269	2.6	2
43	On the energy scale involved in the metal to insulator transition of quadruple perovskite EuCu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> : infrared spectroscopy and ab-initio calculations. <i>Scientific Reports</i> , <b>2016</b> , 6, 28624	4.9	2
42	Multiple pre-edge structures in Cu K-edge x-ray absorption spectra of high-T <sub>c</sub> cuprates revealed by high-resolution x-ray absorption spectroscopy. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	2
41	Low-energy spectroscopic mapping studies in optimally-doped Ca <sub>2-x</sub> NaxCuO <sub>2</sub> Cl <sub>2</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 954-955	1.3	2
40	Superconductivity at 38 K in the single layer oxychloride without cation substitution. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 412-414, 27-30	1.3	2
39	Novel Paths for Nucleation and Growth of Thin Films by Ionized Cluster Beam (ICB) Techniques: Atomic-Scale Observations. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 235, 597		2
38	Aluminum surface mobility on two types of silicon oxide during ionized cluster beam deposition. <i>Surface and Interface Analysis</i> , <b>1990</b> , 15, 159-162	1.5	2
37	Ionized Cluster Beam Epitaxy of Single Crystal Metal Films on Semiconductors and Insulators. <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 93, 253		2
36	Magnetotransport Property for the Magnetoplumbite-Derived Oxide BaCo <sub>6</sub> O <sub>11</sub> . <i>Materials Transactions</i> , <b>2020</b> , 61, 1503-1506	1.3	2
35	High-Pressure Synthesis of Cation-Disordered Rock-Salt Oxyfluorides with High Crystallinity. <i>Electrochemistry</i> , <b>2021</b> , 89, 94-99	1.2	2
34	High-Pressure Synthesis and Magnetic States of Magnetoplumbite Cobaltates CaCoO and BaCoO. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 7680-7686	5.1	2
33	Electrochemical deposition of amorphous cobalt oxides for oxygen evolution catalysis.. <i>RSC Advances</i> , <b>2022</b> , 12, 8731-8736	3.7	2
32	Raman study of ACu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> (A = Ca, Sr, Y and Eu). <i>Solid State Sciences</i> , <b>2014</b> , 27, 65-68	3.4	1
31	High-Pressure Synthesis of Novel Transition Metal Oxides Containing Unusual High Valence Ions. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2013</b> , 23, 167-173	0	1

30	Phase separation in the system with sodium silicate and sodium dodecyl sulfate under acidic conditions. <i>Journal of the Ceramic Society of Japan</i> , <b>2010</b> , 118, 295-299	1	1
29	CLUSTER ION BOMBARDMENT-INDUCED SURFACE DAMAGE OF Si. <i>Surface Review and Letters</i> , <b>1996</b> , 03, 1045-1049	1.1	1
28	Highly active postspinel-structured catalysts for oxygen evolution reaction.. <i>RSC Advances</i> , <b>2022</b> , 12, 5094-5104	3.7	1
27	High-pressure synthesis, crystal structure, and magnetic property of LaCo <sub>6</sub> O <sub>11</sub> . <i>International Journal of Ceramic Engineering &amp; Science</i> ,	2	1
26	Recent Progress in Search for New Functional Oxides by High-Pressure Synthesis. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2005</b> , 15, 292-302	0	1
25	Neutron diffraction study of quadruple perovskite SrCu <sub>3</sub> Fe <sub>3</sub> O <sub>12</sub> <b>2016</b> ,		1
24	Facile and Low-Temperature Synthesis of Fe <sub>2</sub> O <sub>3</sub> Nanoparticles with Thermally Stable Ferrimagnetism for Use in Magnetic Recording Tapes. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10678-10690	5.6	1
23	Metamagnetic Behavior in a Quadruple Perovskite Oxide. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 7023-7030	5.1	1
22	High-Pressure Synthesis of Novel Oxygen Evolution Catalysts. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2016</b> , 26, 247-252	0	1
21	Magnetic properties of quadruple perovskite solid solutions Ca <sub>1-x</sub> Y <sub>x</sub> Cu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> and Y <sub>1-x</sub> Ce <sub>x</sub> Cu <sub>3</sub> Fe <sub>4</sub> O <sub>12</sub> <b>2016</b> ,		1
20	Electrochemical properties of chromium oxyfluoride CrO <sub>2-x</sub> F <sub>x</sub> with 0 ≤ x ≤ 0.3. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 3196-3202	6.8	1
19	Topochemical synthesis of perovskite-type CuNb <sub>2</sub> O <sub>6</sub> with colossal dielectric constant. <i>Journal of Materials Chemistry C</i> ,	7.1	1
18	Surface Modification of Bio-Active Ceramic (Artificial Bone) by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 252, 23		0
17	Positive and Negative Synergistic Effects of Fe <sub>1-x</sub> Co <sub>x</sub> Mixing on the Oxygen and Hydrogen Evolution Reaction Activities of the Quadruple Perovskite CaCu <sub>3</sub> Fe <sub>4-x</sub> Co <sub>x</sub> O <sub>12</sub> . <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 214-226	6.1	0
16	Crystal Structure Refinement of the A-Site-Ordered Double-Perovskite Oxide PrBaCo <sub>2</sub> O <sub>6</sub>	1.3	0
15	NMR study of successive magnetic transitions in the A-site ordered perovskite LaMn <sub>3</sub> Cr <sub>4</sub> O <sub>12</sub> . <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 63, 640-643	0.6	
14	Rattling in the Quadruple Perovskite CuCu <sub>3</sub> V <sub>4</sub> O <sub>12</sub> . <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11020-11024	3.6	
13	High pressure synthesis at 10 GPa and 1400 K using a small cubic anvil apparatus with a multi-anvil 6-6 system. <i>High Pressure Research</i> , <b>2012</b> , 32, 347-353	1.6	

- 12 Cu NQR and NMR Studies of Optimally Doped  $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$ . *Journal of the Physical Society of Japan*, **2013**, 82, 055001 1.5
- 11 Computer Simulation of Annealing after Cluster Ion Implantation. *Materials Research Society Symposia Proceedings*, **1998**, 532, 147
- 10 FUNDAMENTAL ASPECTS OF THE IONIZED CLUSTER-BEAM DEPOSITION PROCESS. *Surface Review and Letters*, **1996**, 03, 1013-1016 1.1
- 9 Bombarding Effects of Gas Cluster Ion Beams on Sapphire Surfaces; Characteristics of Modified Layers and their Mechanical and Optical Properties. *Materials Research Society Symposia Proceedings*, **1995**, 396, 279
- 8 Computer Simulation of Cluster ION Impacts on a Solid Surface. *Materials Research Society Symposia Proceedings*, **1995**, 408, 591
- 7 Epitaxial Al(110) Films Grown On Heavily-Doped Si(100) by Cluster Beam Deposition.. *Materials Research Society Symposia Proceedings*, **1991**, 235, 621
- 6 ION BEAM EPITAXY **1990**, 43-155
- 5 Bifunctional Electrocatalysis of Quadruple Manganese Perovskite Oxide for Oxygen Reactions. *Nihon Kessho Gakkaishi*, **2018**, 60, 76-77 0
- 4 Charge Disproportionation, Intersite Charge Transfer, and Negative Thermal Expansion in Iron Perovskites Containing Unusual High Valence  $\text{Fe}^{4+}$  Ions. *Nihon Kessho Gakkaishi*, **2012**, 54, 287-291 0
- 3 Crystal Structures and Electronic States of High-Pressure-Synthesized  $(1-x)\text{PbVO}_3-x\text{BiCrO}_3$  Solid Solutions. *Journal of Asian Ceramic Societies*, 1-7 2.4
- 2 Novel Catalysts Synthesized by High-Pressure Method and Reaction Mechanism Based on First-Principles Calculation. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **2018**, 28, 184-192 0
- 1 Large negative thermal expansion induced by cation dimerization in ilmenite-type vanadate ceramic. *Applied Physics Letters*, **2022**, 120, 201901 3.4