

# Hitoshi Takamura

## List of Publications by Year in descending order

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182  
papers

4,516  
citations

126858

33  
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123376

61  
g-index

185  
all docs

185  
docs citations

185  
times ranked

2904  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lithium superionic conduction in lithium borohydride accompanied by structural transition. Applied Physics Letters, 2007, 91, .	1.5	392
2	Halide-Stabilized LiBH <sub>4</sub> , a Room-Temperature Lithium Fast-Ion Conductor. Journal of the American Chemical Society, 2009, 131, 894-895.	6.6	357
3	Sodium superionic conduction in Na <sub>2</sub> B <sub>12</sub> H <sub>12</sub> . Chemical Communications, 2014, 50, 3750-3752.	2.2	243
4	Exceptional Superionic Conductivity in Disordered Sodium Decahydrodecaborate. Advanced Materials, 2014, 26, 7622-7626.	11.1	221
5	Complex Hydrides with (BH <sub>4</sub> ) <sup>-</sup> and (NH <sub>2</sub> ) <sup>-</sup> Anions as New Lithium Fast-Ion Conductors. Journal of the American Chemical Society, 2009, 131, 16389-16391.	6.6	183
6	Ti-V-Cr b.c.c. alloys with high protium content. Journal of Alloys and Compounds, 2002, 330-332, 511-516.	2.8	145
7	All-solid-state lithium battery with LiBH <sub>4</sub> solid electrolyte. Journal of Power Sources, 2013, 226, 61-64.	4.0	123
8	Stabilization of lithium superionic conduction phase and enhancement of conductivity of LiBH <sub>4</sub> by LiCl addition. Applied Physics Letters, 2009, 94, .	1.5	96
9	Experimental and computational studies on structural transitions in the LiBH <sub>4</sub> -Lil pseudobinary system. Applied Physics Letters, 2009, 94, .	1.5	84
10	New V-based alloys with high protium absorption and desorption capacity. Journal of Alloys and Compounds, 1999, 293-295, 433-436.	2.8	75
11	Protium absorption properties and protide formations of Ti-Cr-V alloys. Journal of Alloys and Compounds, 2003, 356-357, 505-509.	2.8	74
12	Oxidation behavior of Cu-Ag core-shell particles for solar cell applications. Journal of Alloys and Compounds, 2013, 564, 71-77.	2.8	73
13	Sodium ionic conduction in complex hydrides with [BH <sub>4</sub> ] <sup>-</sup> and [NH <sub>2</sub> ] <sup>-</sup> anions. Applied Physics Letters, 2012, 100, .	1.5	66
14	Sodium and magnesium ionic conduction in complex hydrides. Journal of Alloys and Compounds, 2013, 580, S98-S101.	2.8	61
15	First-Principles Calculations for the Energetics of the Hydration Reaction of Acceptor-Doped BaZrO <sub>3</sub> . Chemistry of Materials, 2017, 29, 1518-1526.	3.2	60
16	Protium absorption properties of Ti-V-Cr-Mn alloys with a b.c.c. structure. Journal of Alloys and Compounds, 2002, 330-332, 522-525.	2.8	59
17	Correlation among Oxygen Vacancies, Protonic Defects, and the Acceptor Dopant in Sc-Doped BaZrO <sub>3</sub> Studied by <sup>45</sup> Sc Nuclear Magnetic Resonance. Chemistry of Materials, 2015, 27, 6660-6667.	3.2	59
18	Room temperature lithium fast-ion conduction and phase relationship of Lil stabilized LiBH <sub>4</sub> . Solid State Ionics, 2011, 192, 143-147.	1.3	57

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19	Oxygen Permeation Properties of Ceria-Ferrite-Based Composites. <i>Journal of Electroceramics</i> , 2004, 13, 613-618.	0.8	56
20	Role of intermetallics in hydrogen storage materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 329-331, 305-312.	2.6	52
21	High-pressure synthesis of novel compounds in an Mg–Ni system. <i>Renewable Energy</i> , 2008, 33, 221-225.	4.3	49
22	The oxygen permeation characteristics of Bi <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> mixed ionic and electronic conducting ceramics. <i>Solid State Ionics</i> , 2010, 181, 53-58.	1.3	49
23	Lithium-ion conduction in complex hydrides LiAlH <sub>4</sub> and Li <sub>3</sub> AlH <sub>6</sub> . <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	46
24	Synthesis and Lithium Fast-Ion Conductivity of a New Complex Hydride Li <sub>3</sub> (NH <sub>2</sub> ) <sub>2</sub> I with Double-Layered Structure. <i>Chemistry of Materials</i> , 2010, 22, 2702-2704.	3.2	46
25	Hydride-based antiperovskites with soft anionic sublattices as fast alkali ionic conductors. <i>Nature Communications</i> , 2021, 12, 201.	5.8	46
26	Oxygen permeation and methane reforming properties of ceria-based composite membranes. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 1084-1089.	2.8	41
27	Ionic conductivity of Gd <sub>2</sub> GaSbO <sub>7</sub> –Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> solid solutions with structural disorder. <i>Solid State Ionics</i> , 2000, 134, 67-73.	1.3	40
28	High-pressure synthesis of novel hydrides in Mg–RE–H systems (RE=Y, La, Ce, Pr, Sm, Gd, Tb, Dy). <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 284-287.	2.8	39
29	Electrical conductivity of dense nanocrystalline ceria under humidified atmosphere. <i>Solid State Ionics</i> , 2010, 181, 100-103.	1.3	38
30	Grain size refinement in Mg–Al-based alloy by hydrogen treatment. <i>Journal of Alloys and Compounds</i> , 2003, 356-357, 804-808.	2.8	37
31	Effects of surface modification on the oxygen permeation of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> membrane. <i>Journal of Membrane Science</i> , 2014, 462, 147-152.	4.1	37
32	Protium Absorption Properties of Ti-Cr-V Alloys in Low Hydrogen Pressure Regions. <i>Materials Transactions</i> , 2001, 42, 1862-1865.	0.4	36
33	A dense NASICON sheet prepared by tape-casting and low temperature sintering. <i>Electrochimica Acta</i> , 2018, 278, 176-181.	2.6	35
34	Acceptor Doped BiFeO <sub>3</sub> Ceramics: A New Material for Oxygen Permeation Membranes. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L93-L96.	0.8	33
35	Effects of intermediate layer on interfacial resistance for all-solid-state lithium batteries using lithium borohydride. <i>Solid State Ionics</i> , 2014, 262, 179-182.	1.3	32
36	Low-temperature preparation of high-n TiO <sub>2</sub> thin film on glass by pulsed laser deposition. <i>Applied Surface Science</i> , 2015, 347, 528-534.	3.1	32

#	ARTICLE	IF	CITATIONS
37	Crystal structure of novel hydrides in a Mg-Ni-H system prepared under an ultra high pressure. Journal of Alloys and Compounds, 2002, 330-332, 157-161.	2.8	31
38	Thermal Stability of Hydrides of Magnesium-Transition Metal System Prepared under a High Pressure. Materials Science Forum, 2000, 350-351, 329-332.	0.3	30
39	Cyclic Properties of Protium Absorption-Desorption in Ti-Cr-V Alloys. Materials Transactions, 2002, 43, 1115-1119.	0.4	30
40	Electrode and oxygen permeation properties of (Ce, Sm)O <sub>2</sub> -MFe <sub>2</sub> O <sub>4</sub> composite thin films (M=Co and) Tj ETQq0,0,0 rgBT /Overlock 1	1.3	29
41	Oxygen permeation properties and the stability of La <sub>0.6</sub> Sr <sub>0.4</sub> Fe <sub>0.8</sub> Co <sub>0.2</sub> O <sub>3</sub> studied by Raman spectroscopy. Solid State Ionics, 2006, 177, 2281-2284.	1.3	29
42	Protium Absorption-Desorption Properties of Ti-V-Cr-(Mn, Ni) Alloys. Materials Transactions, JIM, 2000, 41, 617-620.	0.9	28
43	Effect of Absorption-Desorption Cycles on Structure and Stability of Protides in Ti-Cr-V Alloys. Materials Transactions, 2002, 43, 2748-2752.	0.4	28
44	Protium absorption-desorption properties of Ti-Cr-Mo bcc solid solution alloys. Journal of Alloys and Compounds, 2003, 356-357, 447-451.	2.8	28
45	High-Pressure Synthesis of Hydrides in Ca-Mg-Ni Systems. Materials Transactions, 2001, 42, 1301-1304.	0.4	27
46	Preparation and oxygen permeability of Pr <sub>2</sub> Al-based perovskite-type oxides. Solid State Ionics, 2004, 175, 379-382.	1.3	27
47	Nanograined Sc-doped BaZrO <sub>3</sub> as a proton conducting solid electrolyte for intermediate temperature solid oxide fuel cells (IT-SOFCs). Solid State Ionics, 2014, 264, 1-6.	1.3	27
48	Synthesis of New Hydrides in Mg-Y Systems by Using High Pressure. Materials Transactions, 2002, 43, 2717-2720.	0.4	26
49	Enhancement of the lithium-ion conductivity of LiBH <sub>4</sub> by hydration. Solid State Ionics, 2016, 285, 47-50.	1.3	26
50	Li-Ion Conductivity and Phase Stability of Ca-Doped LiBH <sub>4</sub> under High Pressure. Inorganic Chemistry, 2016, 55, 10484-10489.	1.9	25
51	Effects of Protide Structures on Hysteresis in Ti-Cr-V Protium Absorption Alloys. Materials Transactions, 2002, 43, 2753-2756.	0.4	24
52	Fabrication and characteristics of planar-type methane reformer using ceria-based oxygen permeable membrane. Solid State Ionics, 2008, 179, 1354-1359.	1.3	24
53	Atomistic Insight into the Correlation among Oxygen Vacancies, Protonic Defects, and the Acceptor Dopants in Sc-Doped BaZrO <sub>3</sub> Using First-Principles Calculations. Journal of Physical Chemistry C, 2018, 122, 6501-6507.	1.5	24
54	Oxygen permeability of nanocrystalline Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>1.9</sub> -CoFe <sub>2</sub> O <sub>4</sub> mixed-conductive films. Journal of Membrane Science, 2006, 286, 180-184.	4.1	23

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55	Preparation of Ultrafine Fe-Pt Alloy and Au Nanoparticle Colloids by KrF Excimer Laser Solution Photolysis. <i>Nanoscale Research Letters</i> , 2009, 4, 565-573.	3.1	23
56	High Pressure Synthesis of Novel Compounds in Mg-TM Systems (TM = Ti&sim;Zn). <i>Materials Transactions</i> , 2004, 45, 1350-1354.	0.4	22
57	Effects of Compositions on Formation of 1, 2 Protorides in Ti-Cr-V Alloys. <i>Materials Transactions</i> , 2002, 43, 410-413.	0.4	21
58	Ti-Cr-X protium absorbing alloys with high protium content for fuel-cell. <i>Journal of Alloys and Compounds</i> , 2003, 356-357, 480-485.	2.8	21
59	Grain Size Refinements of Mg Alloys (AZ61, AZ91, ZK60) by HDDR Treatment. <i>Materials Transactions</i> , 2004, 45, 384-387.	0.4	21
60	Effect of synthesis pressure on hydride phases in Mg-M systems (M = Mn, Y). <i>Science and Technology of Advanced Materials</i> , 2003, 4, 333-338.	2.8	20
61	Mixed conductivity and electrode properties of Mn-doped Bi-Sr-Fe-based perovskite-type oxides. <i>Solid State Ionics</i> , 2013, 253, 211-216.	1.3	20
62	Crystal Structure and Protium Absorption Properties of Ti-Cr-X Alloys. <i>Materials Transactions</i> , 2002, 43, 470-473.	0.4	19
63	Oxygen permeation properties and surface modification of acceptor-doped CeO <sub>2</sub> /MnFe <sub>2</sub> O <sub>4</sub> composites. <i>Journal of Electroceramics</i> , 2006, 17, 741-748.	0.8	19
64	Crystal structure and protium absorption properties of La-rich La(Ni, M) <sub>x</sub> (x=3-4.7) (M=Al, Co, Mn, Si) melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , 1999, 293-295, 130-134.	2.8	18
65	New Vanadium-based Protium Absorbing Alloys with Laves Phases Along Grain Boundary. <i>Materials Transactions, JIM</i> , 1999, 40, 431-434.	0.9	17
66	High-Pressure Synthesis of Hydrides of Ca-TM Systems (TM=Mn, Fe, Co and Ni). <i>Materials Transactions</i> , 2001, 42, 443-445.	0.4	17
67	Electrical conductivity of layered compounds in Sr-La <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> systems prepared by the Pechini process. <i>Solid State Ionics</i> , 2002, 154-155, 581-588.	1.3	17
68	Electrical conductivity of ceria nanoparticles under high pressure. <i>Journal of Electroceramics</i> , 2009, 22, 24-32.	0.8	17
69	Lithium ion conduction in lithium borohydrides under high pressure. <i>Solid State Ionics</i> , 2011, 192, 118-121.	1.3	16
70	Synthesis of New Hydrides with Cubic Structures in Mg-Ca-Ni Systems by Using High Pressure. <i>Materials Transactions</i> , 2001, 42, 1850-1853.	0.4	15
71	The Electronic Structure of MgY <sub>2</sub> H <sub>6+δ</sub> High-Pressure Hydride. <i>Materials Transactions</i> , 2003, 44, 583-588.	0.4	15
72	High-pressure synthesis and energetics of MgCu with a CsCl-type structure. <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 372-376.	2.8	15

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73	Enhanced Electrical Conductivities of Complex Hydrides $\text{Li}_{2\text{B}}(\text{BH}_4)_2$ and $\text{Li}_4(\text{BH}_4)_3$ by Melting. <i>Materials Transactions</i> , 2011, 52, 654-657.	0.4	15
74	High-Pressure Synthesis of Novel Hydrides in Mg-RE Systems and Their Hydrogen Content (RE = Y, La). <i>Materials Science Forum</i> , 2003, 419-422, 983-988.	0.3	14
75	Grain Refinements of Al-Mg Alloy by Hydrogen Heat-Treatments. <i>Materials Transactions</i> , 2005, 46, 2449-2453.	0.4	14
76	Novel hydrides in Mg-TM systems synthesized by high pressure (TM=Zr, Nb, Hf and Ta). <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 6-10.	2.8	14
77	The Oxygen Permeation Properties of Nanocrystalline $\text{CeO}_2$ Thin Films. <i>Journal of the Electrochemical Society</i> , 2010, 157, B1852.	1.3	14
78	$^{45}\text{Sc}$ NMR spectroscopy and first-principles calculation on the symmetry of $\text{ScO}_6$ polyhedra in Ba-Sc $_{2}\text{O}_3$ -based oxides. <i>Dalton Transactions</i> , 2014, 43, 9714.	1.6	14
79	Low-temperature preparation of rutile-type $\text{TiO}_2$ thin films for optical coatings by aluminum doping. <i>Applied Surface Science</i> , 2017, 412, 223-229.	3.1	14
80	The Electrical and Defect Properties of $\text{Bi}_3\text{Zn}_2\text{Sb}_3\text{O}_{14}$ Pyrochlore: A Grain-Boundary Phase in ZnO-Based Varistors. , 2001, 7, 113-120.		13
81	Protium Absorption Properties of Ti-Cr-V-Mn Alloys in Low Pressure Regions. <i>Materials Transactions</i> , 2002, 43, 1120-1123.	0.4	13
82	High-Pressure Synthesis of Novel Hydrides in Mg-TM Systems (TM = Zr, Nb and Mo). <i>Materials Transactions</i> , 2005, 46, 1798-1801.	0.4	13
83	High-Pressure Synthesis of Novel Hydride in Mg-Ni (-H) System. <i>Materials Transactions</i> , 2006, 47, 1957-1960.	0.4	13
84	Synthesis of rock-salt type lithium borohydride and its peculiar $\text{Li}^+$ ion conduction properties. <i>APL Materials</i> , 2014, 2, .	2.2	13
85	Stabilizing Coexisting n-Type Electronic and Oxide Ion Conductivities in Donor-Doped Ba-In-Based Oxides under Oxidizing Conditions: Roles of Oxygen Disorder and Electronic Structure. <i>Chemistry of Materials</i> , 2019, 31, 2713-2722.	3.2	13
86	High-pressure synthesis of novel hydride in Mg-M systems (M=Li, Pd). <i>Journal of Alloys and Compounds</i> , 2005, 404-406, 448-452.	2.8	12
87	Grain-Size Refinements of Cu-3 mass%Ti Alloys by HDDR Treatments in Correlating with Their Electrical and Mechanical Properties. <i>Materials Transactions</i> , 2009, 50, 499-505.	0.4	12
88	Oxygen Permeable $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{1.9}$ - $\text{CoFe}_2\text{O}_4$ Thin Films Prepared on Porous $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{1.9}$ Substrates. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A70.	2.2	11
89	In situ NMR study of hydrogenation/dehydrogenation of $\text{ZrCr}_2$ and physisorbed hydrogen. <i>Journal of Alloys and Compounds</i> , 2012, 540, 222-227.	2.8	11
90	Preparation and electrode properties of composite cathodes based on $\text{Bi}_{1-x}\text{Sr}_x\text{FeO}_3$ with Perovskite-type structure. <i>Solid State Ionics</i> , 2014, 262, 691-695.	1.3	11

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91	Magnesium Doping for the Promotion of Rutile Phase Formation in the Pulsed Laser Deposition of TiO <sub>2</sub> Thin Films. Materials Transactions, 2018, 59, 33-38.	0.4	11
92	Preparation and Oxygen Permeability of Gd-Doped Ceria and Spinel-Type Ferrite Composites. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	10
93	Large and constant absorption coefficient in Nb Ti <sup>16</sup> O <sub>2</sub> thin films throughout the visible range. Applied Surface Science, 2019, 464, 61-67.	3.1	10
94	Black titanium oxynitride thin films prepared by nitrogen plasma-assisted pulsed laser deposition for flat-panel displays. Applied Surface Science, 2020, 534, 147616.	3.1	10
95	Insight into low-temperature sintering of samarium-doped ceria mixed with scavenging lithium. Acta Materialia, 2022, 224, 117529.	3.8	10
96	Effects of Al Addition on Structures and Protium Absorption-Desorption Properties of Ti-Cr Alloys. Materials Transactions, 2002, 43, 1173-1177.	0.4	9
97	High-pressure synthesis of novel hydride in Mg <sup>16</sup> -Ni <sup>16</sup> -H and Mg <sup>16</sup> -Ni <sup>16</sup> -Cu <sup>16</sup> -H systems. Journal of Alloys and Compounds, 2007, 446-447, 142-146.	2.8	9
98	High Pressure Synthesis of Hydride in Li-Y System. Materials Transactions, 2009, 50, 2069-2072.	0.4	9
99	Preparation and Ionic Conductivity of Al-Doped Mg <sub>0.5</sub> Ti <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . Materials Transactions, 2012, 53, 932-935.	0.4	9
100	Hydrogen Isotope Effects on Absorption Properties of Ti-Cr-V Alloys. Materials Transactions, 2003, 44, 641-644.	0.4	8
101	Performance of palladium electrode for electrochemical hydrogen pump using strontium-zirconate-based proton conductors. Ionics, 2009, 15, 665-670.	1.2	8
102	Ionic Conductivity and Crystal Structure of TM-Doped Mg <sub>0</sub> Ti <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (TM = Fe, Mn, Co and Nb). Key Engineering Materials, 0, 508, 291-299.		
103	Protonation-Induced <i>B</i> -Site Deficiency in Perovskite-Type Oxides: Fully Hydrated BaSc <sub>0.67</sub> O(OH) <sub>2</sub> as a Proton Conductor. Chemistry of Materials, 2021, 33, 5935-5942.	3.2	8
104	Oxygen vacancy order-disorder transition at high temperature in Bi-Sr-Fe-based perovskite-type oxides. Physical Review Materials, 2019, 3, .	0.9	8
105	Synthesis and Crystal Structure of New Hydrides in Mg-RE Systems under High-Pressure (RE = La, Ce,) Tj ETQq1 1 0,784314 rgBT /Ove	0.3	7
106	Optimum Hydrogen Desorption Properties in LiH-LiOH Composites. Materials Transactions, 2009, 50, 1855-1858.	0.4	7
107	Negative Knight Shift in Ba-Ti Oxyhydride: An Indication of the Multiple Hydrogen Occupation. Chemistry of Materials, 2019, 31, 7178-7185.	3.2	7
108	Fabrication of absorbing Nb-Ti suboxide anti-reflective thin film stacks. Results in Physics, 2019, 15, 102558.	2.0	7

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109	Catalytic activity for dissociative oxygen adsorption of Co-based oxides at high temperature evaluated by a modified pulse isotopic exchange technique. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21634-21641.	5.2	7
110	Relations between Ionic Conductivity and Magnetization Intensity in Na- and K-β'-Ferrite with Water Uptake. <i>Materials Transactions, JIM</i> , 1993, 34, 197-201.	0.9	6
111	Hydrogen Production From Methane by Using Oxygen Permeable Ceramics. <i>Journal of Fuel Cell Science and Technology</i> , 2006, 3, 175-179.	0.8	6
112	Preparation and mixed proton-hole conductivity of barium zirconate doped with scandium and cobalt. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5577-5584.	3.8	6
113	Dielectric Properties of Nb-Doped PbZrO <sub>3</sub> Thin Films Prepared by Pulsed Laser Deposition. <i>Materials Transactions, JIM</i> , 2000, 41, 589-592.	0.9	5
114	Protium Absorption and Desorption Properties of bcc Ti-Fe Solid Solution Alloys Stabilized by Mo Addition. <i>Materials Transactions</i> , 2003, 44, 991-994.	0.4	5
115	Optically Black and Electrically Insulating Ag-Fe-O Based Thin Films for Touch Panel Displays. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000160.	1.2	5
116	Heat-Resistant Black Insulative Thin Films for Flat-Panel Displays in Al-Doped Ag-Fe-O Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 57971-57980.	4.0	5
117	Nonthermal melting of charge density wave order via nucleation in $VTe_2$ . <i>Physical Review B</i> , 2022, 105, .		
118	Crystal Structure and Hydrogen Absorption Properties of La(Ni, M) <sub>x</sub> (M=Al, Co, Mn, Si). <i>Tj ETQq0 0 0 rgBT /Overlock 10 TF</i>	0.9	4
119	Synthesis and Magnetic Properties of Zn <sup>2+</sup> Stabilized La M-type Ferrite.. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1997, 44, 22-26.	0.1	4
120	Protium Absorption Properties of La-TM-Si (TM=Co, Ni) Ternary Intermetallic Compounds. <i>Materials Transactions, JIM</i> , 1998, 39, 769-772.	0.9	4
121	Protium Absorption Properties of Mg-Al Based Ternary Alloys. <i>Materials Transactions, JIM</i> , 2000, 41, 1142-1145.	0.9	4
122	Preparation and Protium Absorbing Properties of Mg-Based Ternary Alloys. <i>Materials Science Forum</i> , 2000, 350-351, 315-320.	0.3	4
123	Microstructural Evolution of the Surface of Mg-Al-Based Alloy by Hydrogen Treatment. <i>Materials Science Forum</i> , 2003, 419-422, 931-936.	0.3	4
124	Ferromagnetism of (ScCa)Co <sub>2</sub> Laves phase compound synthesized under high pressure. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 147-150.	2.8	4
125	Control of electrochemical reduction behavior in nonequilibrium Al-doped TiO <sub>2</sub> thin films. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	4
126	Large Magnetoresistance Effect in Polycrystalline Isotropic La-AM-Mn-O Ceramics (AM=Na, K, Rb, Cs). <i>Materials Transactions, JIM</i> , 1996, 37, 1219-1223.	0.9	3



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127	New PTC Materials Based on Bi Metal/Ceramics Composites. Materials Transactions, JIM, 1997, 38, 353-358.	0.9	3
128	Magnetic Properties of Sm&ndash;Co&ndash;Cu and Sm&ndash;Co&ndash;Cu/Co Exchange-Spring Films with High Coercivity. Materials Transactions, JIM, 1998, 39, 302-307.	0.9	3
129	Occurrence of HDDR Phenomena and Grain Refinements for Al-Mg Alloys. Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2005, 52, 874-878.	0.1	3
130	High Pressure Synthesis of Novel Mg(Ni<SUB>1</SUB>-x</SUB>Cu<SUB>x</SUB>)<SUB>2</SUB> Hydrides (x=0&ndash;0.2). Materials Transactions, 2009, 50, 1179-1182.	0.4	3
131	Material Development Strategy of Lightweight Solid Oxide Fuel Cells for Airplane System Electrification. ECS Transactions, 2019, 91, 311-318.	0.3	3
132	High Pressure Synthesis of Novel Metal Hydrides. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2007, 17, 264-270.	0.1	3
133	Antireflective black coatings comprised of Ag&sup3;Fe&sup3;O thin films with high electrical resistivity. APL Materials, 2022, 10, .	2.2	3
134	The Crystal Structure and Magnetic Properties of M-type (La&cdot;AM)O&cdot;nFe<SUB>2</SUB>O<SUB>3</SUB> Hexagonal Ferrites (AM=Na, K, Rb). Materials Transactions, JIM, 1996, 37, 499-502.	0.9	2
135	Origin of Appearance of PTCR Properties in Bi&ndash;Sr&ndash;Ti&ndash;O System. Materials Transactions, JIM, 1996, 37, 426-429.	0.9	2
136	Effect of Chemical Etching on Protium Absorbing Properties and Electrochemical Characteristics of LaNi5 Alloys.. Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1999, 46, 131-137.	0.1	2
137	Microstructures and PTCR Properties of Bismuth Metal/Strontium-Bismuth-Titanate Ceramic Composites. Materials Transactions, JIM, 1999, 40, 404-407.	0.9	2
138	Synthesis of Vapor&mdash;Grown Carbon Fibers Using Nanocrystalline Fe<SUB>91</SUB>Zr<SUB>7</SUB>B<SUB>2</SUB> Alloy as a Catalyst. Materials Transactions, JIM, 2000, 41, 563-566.	0.9	2
139	Effects of Absorption-Desorption Cycles on Protium Absorption Properties in Ti-Cr-M Alloys (M = V, Tj ETQq1 1 0.784314 rgBT /Overl	0.4	2
140	High-Pressure Synthesis of Novel Hydride in Ca-TM Systems. Advanced Materials Research, 2007, 26-28, 885-888.	0.3	2
141	Title is missing!. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2005, 56, 491-496.	0.1	2
142	Direct Observations of $\hat{I}^2\hat{\epsilon}^3$ -Structures in a K2O-Fe2O3-CdO System by High-Resolution Electron Microscopy. Journal of Solid State Chemistry, 1994, 113, 41-45.	1.4	1
143	Hydrogen Absorption Properties of Amorphous and Crystalline La&ndash;Ni&ndash;B Melt-Spun Ribbons. Materials Transactions, JIM, 1996, 37, 835-838.	0.9	1
144	Effect of Solid Reducing Agent of Si on Formative Condition of SrFe2-W Type Ferrite and Magnetic Properties.. Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1998, 45, 641-645.	0.1	1

#	ARTICLE	IF	CITATIONS
145	PTCR Properties of Bi metal/Ceramics Composites Fabricated by Hot-Pressing.. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1999, 46, 752-756.	0.1	1
146	Varistor Properties of ZnO/Pr6O11 Multilayered Composites Prepared by Pulsed Laser Ablation Method.. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1999, 46, 811-815.	0.1	1
147	Synthesis and Protium Absorbing Properties of Vapor Grown Carbon Nano-Fibers Grown by Fe-based Catalyst. Materials Transactions, 2002, 43, 1127-1132.	0.4	1
148	Preparation and Oxygen Permeability of La-Sr-Co-Fe Oxide Thin Films by a Chemical Solution Deposition Process. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	1
149	Isotope Effects on Protium and Deuterium Absorption Properties in Ti-56 at%Cr-20 at%V Alloy. Materials Transactions, 2004, 45, 1355-1359.	0.4	1
150	Preparation of Oxygen Permeable Thin Films on YSZ Porous Substrates. Materials Transactions, 2008, 49, 453-456.	0.4	1
151	Development of a nuclear magnetic resonance system for in situ analysis of hydrogen storage materials under high pressures and temperatures. Review of Scientific Instruments, 2010, 81, 104101.	0.6	1
152	A New Development Strategy of Light Wight Solid Oxide Fuel Cells for Electrified Airplane System. , 2019, , .		1
153	Lithium-Ion Conduction in LiBH4 Hydrated H2o and D2o. ECS Meeting Abstracts, 2016, , .	0.0	1
154	Low-Temperature Operation of CeO2-ZrO2-Based Oxygen Storage Materials. ECS Meeting Abstracts, 2020, MA2020-02, 2537-2537.	0.0	1
155	Enhancement of Magnetization Intensity in Na- and K-&beta;&prime;-Ferrites by Annealing in Chalcogen Atmosphere. Materials Transactions, JIM, 1994, 35, 384-388.	0.9	0
156	PTCR Properties of Composites Consisted of Metals with Low Melting Point and Conductive Ceramics. Journal of the Ceramic Society of Japan, 1995, 103, 25-31.	1.3	0
157	Large Magnetoresistance Effect in Isotropic Polycrystalline Perovskite-Like La-AM-Mn-O (AM=K, Rb) Ceramics. Journal of the Ceramic Society of Japan, 1996, 104, 151-154.	1.3	0
158	Magnetoresistance Effect in Isotropic RE<sub>x</sub>1<sup>-</sup>Sr<sub>x</sub>Mn<sub>1</sub>-y<sup>-</sup>TM<sub>y</sub>O (RE=La, Pr, Nd, Sm; TM=3d transition metal) Ceramics. Materials Transactions, JIM, 1996, 37, 458-461.	0.1	0
159	Synthesis and Magnetic Properties of Sr1-x(La,AM)x-M Type Ferrites(AM=Na,K).. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1996, 43, 990-994.	0.1	0
160	Magnetic Properties of Sm-Co and Sm-Co/M (M=Co, Fe) Exchange-Spring Films.. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1997, 44, 827-832.	0.1	0
161	Electric and Magnetic Properties of Newly Synthesized Spinel Manganites.. Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1998, 45, 636-640.	0.1	0
162	Protium diffusion in La&quot;Ni alloys. Journal of Alloys and Compounds, 1999, 293-295, 270-274.	2.8	0

#	ARTICLE	IF	CITATIONS
163	Synthesis of Vapor-Grown Carbon Fibers Using Nanocrystalline Fe <sub>75</sub> Si <sub>15</sub> B <sub>10</sub> Alloy as a Catalyst. Materials Transactions, 2001, 42, 838-841.	0.4	0
164	Mixed Ionic & Electronic Conduction and Oxygen Permeation in Ba-In Based Oxides Doped with Transition Metals. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	0
165	Oxygen Permeable Properties of Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>1.9</sub> - MFe <sub>2</sub> O <sub>4</sub> Composite Thin Films Prepared by a Chemical Solution Deposition Method. Materials Research Society Symposia Proceedings, 2004, 835, K2.7.1.	0.1	0
166	Oxide-Ion Transport in Gadolinium Zirconate - Titanates under High Pressure. Materials Research Society Symposia Proceedings, 2004, 835, K2.10.1.	0.1	0
167	Hydrogen Production from Methane by Using Composite-Type Oxygen Permeable Membranes. Materials Research Society Symposia Proceedings, 2005, 885, 1.	0.1	0
168	Preparation of Nano-Sized Doped Ceria for SOFC Anodes. Materials Research Society Symposia Proceedings, 2005, 885, 1.	0.1	0
169	The Thickness Dependence of Oxygen Permeability in Sol-Gel Derived Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>2</sub> -CoFe <sub>2</sub> O <sub>4</sub> Thin Films on Porous Ceramic Substrates: A Sputtered &#x201c;Blocking Layer&#x201d; for Thickness Control. Materials Research Society Symposia Proceedings, 2008, 1126, 1.	0.1	0
170	Electrode Properties of Pr <sub>0.7</sub> Sr <sub>0.3</sub> Fe <sub>0.8</sub> Al <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> Thin Film Prepared by Pulsed Laser Deposition. ECS Transactions, 2009, 25, 2675-2680.	0.3	0
171	Preparation of Integrated Oxygen Permeable Membranes with a Porous Layer by Partial Reduction Process. Materials Transactions, 2009, 50, 506-508.	0.4	0
172	Preparation of Cathode Material for Co-Sintering with Electrolyte at High Temperature. ECS Transactions, 2013, 57, 1901-1908.	0.3	0
173	Electrode Properties of Bi-Sr-Fe-Based Perovskite-Type Oxides Coated with Nano-Structured PrBaCo <sub>2</sub> O <sub>5+<math>\delta</math></sub> . ECS Transactions, 2013, 57, 2019-2025.	0.3	0
174	Recent Progress of Battery Materials. Materia Japan, 2017, 56, 135-139.	0.1	0
175	Evaluation of Titanium Based Alloys as Interconnects for the Light Weight SOFC System. ECS Transactions, 2019, 91, 2279-2290.	0.3	0
176	Title is missing!. , 2001, 7, 113-120.		0
177	HYDROGEN PRODUCTION FROM HYDROCARBONS BY USING OXYGEN PERMEABLE MEMBRANES. , 2009, , .		0
178	Hydrocarbon Reforming by Using Oxygen Permeable Membranes. Membrane, 2012, 37, 67-73.	0.0	0
179	MIEC Materials. , 2014, , 1297-1300.		0
180	Surface Modification of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-d</sub> By Using Atomic Layer Deposition. ECS Meeting Abstracts, 2016, , .	0.0	0

#	ARTICLE	IF	CITATIONS
181	(Invited) Ionic Conduction in Metal Borohydrides and Their Application to All-Solid-State Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
182	(Invited) Facile Synthesis of Spherical and Highly Sinterable SDC Particles by Using Molten Salts. ECS Meeting Abstracts, 2021, MA2021-02, 1374-1374.	0.0	0