

Eiichiro Matsubara

List of Publications by Year in descending order

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235
papers

5,071
citations

109321

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128289

60
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238
all docs

238
docs citations

238
times ranked

5474
citing authors

#	ARTICLE	IF	CITATIONS
1	Excess free volume in metallic glasses measured by X-ray diffraction. <i>Acta Materialia</i> , 2005, 53, 1611-1619.	7.9	344
2	Direct Observation of a Metastable Crystal Phase of Li_xFePO_4 under Electrochemical Phase Transition. <i>Journal of the American Chemical Society</i> , 2013, 135, 5497-5500.	13.7	177
3	Intercalation and Push-Out Process with Spinel-Rocksalt Transition on Mg Insertion into Spinel Oxides in Magnesium Batteries. <i>Advanced Science</i> , 2015, 2, 1500072.	11.2	153
4	Processing Pure Ti by High-Pressure Torsion in Wide Ranges of Pressures and Strain. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 2079-2086.	2.2	149
5	Hydrogen permeation and structural features of melt-spun Ni-Nb-Zr amorphous alloys. <i>Acta Materialia</i> , 2005, 53, 3703-3711.	7.9	134
6	A concept of dual-salt polyvalent-metal storage battery. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1144-1149.	10.3	133
7	Transient Phase Change in Two Phase Reaction between LiFePO_4 and FePO_4 under Battery Operation. <i>Chemistry of Materials</i> , 2013, 25, 1032-1039.	6.7	122
8	Allotropic phase transformation of pure zirconium by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 523, 277-281.	5.6	105
9	Electrochemical Stability of Magnesium Battery Current Collectors in a Grignard Reagent-Based Electrolyte. <i>Journal of the Electrochemical Society</i> , 2013, 160, C83-C88.	2.9	105
10	Crystallization Behavior of Amorphous $\text{Fe}_{90}\text{Nb}_{10}$ ($X=10$ and 30) Alloys. <i>Materials Transactions, JIM</i> , 2000, 41, 1526-1529.		
11	Amorphous Metal Polysulfides: Electrode Materials with Unique Insertion/Extraction Reactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 8796-8799.	13.7	84
12	Surface modification of ACM522 magnesium alloy by plasma electrolytic oxidation in phosphate electrolyte. <i>Corrosion Science</i> , 2012, 57, 74-80.	6.6	80
13	Toward "rocking-chair type" Mg-Li dual-salt batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10188-10194.	10.3	72
14	Direct observation of layered-to-spinel phase transformation in Li_2MnO_3 and the spinel structure stabilised after the activation process. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6695-6707.	10.3	72
15	Factors determining the packing-limitation of active materials in the composite electrode of lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 301, 11-17.	7.8	65
16	Three-Dimensional Electron Density Mapping of Shape-Controlled Nanoparticle by Focused Hard X-ray Diffraction Microscopy. <i>Nano Letters</i> , 2010, 10, 1922-1926.	9.1	63
17	Preferential formation of anatase in laser-ablated titanium dioxide films. <i>Acta Materialia</i> , 2005, 53, 323-329.	7.9	62
18	Ultrasound-induced crystallization around the glass transition temperature for $\text{Pd}_{40}\text{Ni}_{40}\text{P}_{20}$ metallic glass. <i>Acta Materialia</i> , 2004, 52, 423-429.	7.9	61

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19	Stabilité de l'état vitreux dans des verres métalliques à base de zirconium et corrélation avec la formation d'une phase icosédrique nanométrique. <i>Annales De Chimie: Science Des Matériaux</i> , 2002, 27, 77-89.	0.4	60
20	High-resolution diffraction microscopy using the plane-wave field of a nearly diffraction limited focused x-ray beam. <i>Physical Review B</i> , 2009, 80, .	3.2	59
21	Formation of self-repairing anodized film on ACM522 magnesium alloy by plasma electrolytic oxidation. <i>Corrosion Science</i> , 2013, 73, 188-195.	6.6	55
22	Control of compound forming reaction at the interface between SnZn solder and Cu substrate. <i>Journal of Alloys and Compounds</i> , 2005, 392, 200-205.	5.5	54
23	Glass-liquid transition in a less-stable metallic glass. <i>Physical Review B</i> , 2005, 72, .	3.2	53
24	Phase Transition Analysis between LiFePO_4 and FePO_4 by In-Situ Time-Resolved X-ray Absorption and X-ray Diffraction. <i>Journal of the Electrochemical Society</i> , 2013, 160, A3061-A3065.	2.9	50
25	Three-Dimensional Nanoelectrode by Metal Nanowire Nonwoven Clothes. <i>Nano Letters</i> , 2014, 14, 1932-1937.	9.1	48
26	EQCM Analysis of Redox Behavior of CuFe Prussian Blue Analog in Mg Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2356-A2361.	2.9	48
27	Effect of Al on Local Structures of Zr–Ni and Zr–Cu Metallic Glasses. <i>Materials Transactions</i> , 2005, 46, 2893-2897.	1.2	46
28	Initial Atomic Motion Immediately Following Femtosecond-Laser Excitation in Phase-Change Materials. <i>Physical Review Letters</i> , 2016, 117, 135501.	7.8	45
29	Surface-layer formation by reductive decomposition of LiPF_6 at relatively high potentials on negative electrodes in lithium ion batteries and its suppression. <i>Journal of Power Sources</i> , 2014, 271, 431-436.	7.8	43
30	Nanoquasicrystallization in Metallic Glasses. <i>Materials Transactions</i> , 2003, 44, 1971-1977.	1.2	40
31	High-resolution projection image reconstruction of thick objects by hard x-ray diffraction microscopy. <i>Physical Review B</i> , 2010, 82, .	3.2	38
32	In-situ X-ray Diffraction of Corrosion Products Formed on Iron Surfaces. <i>Materials Transactions</i> , 2005, 46, 637-642.	1.2	37
33	Mechanism of nanocrystalline microstructure formation in amorphous Fe-Nb Alloys. <i>Physical Review B</i> , 2006, 74, .	3.2	37
34	Electronic States of Sulfur Doped TiO_2 by First Principles Calculations. <i>Materials Transactions</i> , 2004, 45, 1987-1990.	1.2	36
35	Synthesis of Binary Magnesium–Transition Metal Oxides via Inverse Coprecipitation. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 025501.	1.5	36
36	Determination of Mo(VI) Species and Composition in Ni-Mo Alloy Plating Baths by Raman Spectra Factor Analysis. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2210.	2.9	35

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37	One-pot synthesis of silica-coated copper nanoparticles with high chemical and thermal stability. <i>Journal of Colloid and Interface Science</i> , 2015, 460, 47-54.	9.4	35
38	Local Structure of Ferric Hydroxide $\text{Fe}(\text{OH})_3$ in Aqueous Solution by the Anomalous X-ray Scattering and EXAFS Methods. <i>Materials Transactions, JIM</i> , 1994, 35, 394-398.	0.9	34
39	Formation of Cu Nanoparticles by Electroless Deposition Using Aqueous CuO Suspension. <i>Journal of the Electrochemical Society</i> , 2008, 155, D474.	2.9	34
40	EQCM analysis of redox behavior of Prussian blue in a lithium battery electrolyte. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8041.	10.3	34
41	Synthesis of Spinel-Type Magnesium Cobalt Oxide and Its Electrical Conductivity. <i>Materials Transactions</i> , 2008, 49, 824-828.	1.2	32
42	Partial structure analysis of amorphous $\text{Ge}_{15}\text{Te}_{80}\text{M}_5$ (M=Cu, Ag and In). <i>Journal of Non-Crystalline Solids</i> , 2002, 312-314, 585-588.	3.1	31
43	Ex-situ and in-situ X-ray diffractions of corrosion products freshly formed on the surface of an iron-silicon alloy. <i>Corrosion Science</i> , 2007, 49, 1081-1096.	6.6	31
44	A new aspect of Chevrel compounds as positive electrodes for magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14858-14866.	10.3	31
45	Spectroscopic X-ray Diffraction for Microfocus Inspection of Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20750-20755.	3.1	31
46	Constructing metal-anode rechargeable batteries utilizing concomitant intercalation of Li^+ and Mg^{2+} dual cations into Mo_6S_8 . <i>Journal of Materials Chemistry A</i> , 2017, 5, 3534-3540.	10.3	30
47	Element-specific hard x-ray diffraction microscopy. <i>Physical Review B</i> , 2008, 78, .	3.2	29
48	Thickness estimation of interface films formed on $\text{Li}_{1-x}\text{CoO}_2$ electrodes by hard X-ray photoelectron spectroscopy. <i>Journal of Power Sources</i> , 2011, 196, 10679-10685.	7.8	29
49	Inhibition of Conversion Process from $\text{Fe}(\text{OH})_3$ to $\beta\text{-FeOOH}$ and $\alpha\text{-Fe}_2\text{O}_3$ by the Addition of Silicate Ions. <i>ISIJ International</i> , 2005, 45, 77-81.	1.4	28
50	High oxide-ion conductivity of monovalent-metal-doped bismuth vanadate at intermediate temperatures. <i>Solid State Ionics</i> , 2010, 181, 719-723.	2.7	28
51	Mechanical synthesis and structural properties of the fast fluoride-ion conductor PbSnF_4 . <i>Journal of Solid State Chemistry</i> , 2017, 253, 287-293.	2.9	28
52	Intermediate-range order in glassy $\text{Ge}_x\text{Se}_{1-x}$ around the stiffness transition composition. <i>Journal of Non-Crystalline Solids</i> , 2004, 337, 54-61.	3.1	27
53	Formation of Nickel Nanowires via Electroless Deposition Under a Magnetic Field. <i>Journal of the Electrochemical Society</i> , 2011, 158, E79.	2.9	27
54	Influence of Mechanical Strain on the Electrochemical Lithiation of Aluminum-Based Electrode Materials. <i>Journal of the Electrochemical Society</i> , 2011, 159, A14-A17.	2.9	27

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55	Roles of transition metals interchanging with lithium in electrode materials. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14064-14070.	2.8	27
56	Approach for three-dimensional observation of mesoscopic precipitates in alloys by coherent x-ray diffraction microscopy. <i>Applied Physics Letters</i> , 2007, 90, 184105.	3.3	26
57	Fabrication of Cobalt Nanowires by Electroless Deposition under External Magnetic Field. <i>Journal of the Electrochemical Society</i> , 2011, 158, D210.	2.9	26
58	Elastically constrained phase-separation dynamics competing with the charge process in the LiFePO ₄ /FePO ₄ system. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2567.	10.3	26
59	Structural study in amorphous Zr-based noble metal (Pd, Pt and Au) alloys. <i>Journal of Non-Crystalline Solids</i> , 2002, 312-314, 517-521.	3.1	25
60	Hidden Two-Step Phase Transition and Competing Reaction Pathways in LiFePO ₄ . <i>Chemistry of Materials</i> , 2017, 29, 2855-2863.	6.7	25
61	Local Structure and Glass Transition in Zr-Based Binary Amorphous Alloys. <i>Materials Transactions</i> , 2005, 46, 2282-2286.	1.2	24
62	Oxidation-State Control of Nanoparticles Synthesized via Chemical Reduction Using Potential Diagrams. <i>Journal of the Electrochemical Society</i> , 2009, 156, D321.	2.9	24
63	Effects of water content on magnesium deposition from a Grignard reagent-based tetrahydrofuran electrolyte. <i>Research on Chemical Intermediates</i> , 2014, 40, 3-9.	2.7	24
64	Electroless Deposition of Ferromagnetic Cobalt Nanoparticles in Propylene Glycol. <i>Journal of the Electrochemical Society</i> , 2009, 156, E139.	2.9	23
65	Nickel Alloying Effect on Formation of Cobalt Nanoparticles and Nanowires via Electroless Deposition under a Magnetic Field. <i>Journal of the Electrochemical Society</i> , 2011, 159, E37-E44.	2.9	23
66	Determination of Chemical Species and Their Composition in Ni-Mo Alloy Plating Baths by Factor Analysis of Visible Absorption Spectra. <i>Journal of the Electrochemical Society</i> , 1998, 145, 523-528.	2.9	22
67	Effect of Silicate Ions on Conversion of Ferric Hydroxide to β -FeOOH and α -Fe ₂ O ₃ . <i>Materials Transactions</i> , 2005, 46, 155-158.	1.2	22
68	X-ray absorption fine-structure study on the fine structure of lutetium segregated at grain boundaries in fine-grained polycrystalline alumina. <i>Philosophical Magazine</i> , 2004, 84, 865-876.	1.6	21
69	Electrochemical Behavior of Magnesium Alloys in Alkali Metal-TFSA Ionic Liquid for Magnesium-Battery Negative Electrode. <i>Journal of the Electrochemical Society</i> , 2014, 161, A943-A947.	2.9	21
70	A Reversible Rocksalt to Amorphous Phase Transition Involving Anion Redox. <i>Scientific Reports</i> , 2018, 8, 15086.	3.3	21
71	Structural characterization of an amorphous VS ₄ and its lithiation/delithiation behavior studied by solid-state NMR spectroscopy. <i>RSC Advances</i> , 2019, 9, 23979-23985.	3.6	21
72	Characterization of Oxide Film Grown on Stainless Steel by a New In-House Grazing Incidence X-ray Scattering (GIXS) Apparatus. <i>Materials Transactions, JIM</i> , 1995, 36, 1-5.	0.9	20

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73	Epitaxial relation and island growth of perylene-3,4,9,10-tetracarboxylic dianhydride (PTCDA) thin film crystals on a hydrogen-terminated Si(111) substrate. <i>Journal of Crystal Growth</i> , 2004, 262, 196-201.	1.5	20
74	Local Atomic Structures of Amorphous Fe ₈₀ B ₂₀ and Fe ₇₀ Nb ₁₀ B ₂₀ Alloys Studied by Electron Diffraction. <i>Materials Transactions</i> , 2005, 46, 2781-2784.	1.2	20
75	Crystallization Behavior and Structural Stability of Zr ₅₀ Cu ₄₀ Al ₁₀ Bulk Metallic Glass. <i>Materials Transactions</i> , 2009, 50, 1340-1345.	1.2	20
76	Electrochemical Study on the Synthesis Process of Co-Ni Alloy Nanoparticles via Electroless Deposition. <i>Journal of the Electrochemical Society</i> , 2010, 157, E92.	2.9	20
77	Time-Resolved Coherent Diffraction of Ultrafast Structural Dynamics in a Single Nanowire. <i>Nano Letters</i> , 2014, 14, 2413-2418.	9.1	20
78	Structural Study of Liquid Na-Pb Alloys by Neutron Diffraction. <i>Journal of the Physical Society of Japan</i> , 1987, 56, 3934-3940.	1.6	19
79	Structural Study of Amorphous Fe ₇₀ M ₁₀ B ₂₀ (M=CR, W, NB, ZR) <small>Tj ETQq1 1 0.784314 rgBT</small>	1.2	19
80	On the preferential formation of anatase in amorphous titanium oxide film. <i>Scripta Materialia</i> , 2005, 53, 1019-1023.	5.2	19
81	Analysis of the discharge/charge mechanism in VS ₄ positive electrode material. <i>Solid State Ionics</i> , 2018, 323, 32-36.	2.7	19
82	Two-Phase Reaction Mechanism for Fluorination and Defluorination in Fluoride-Shuttle Batteries: A First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 428-435.	8.0	19
83	Precipitation of the ZrCu _{B2} phase in Zr ₅₀ Cu _{50-x} Al _x (<i>x</i> = 0, 4, 6) metallic glasses by rapidly heating and cooling. <i>Journal of Materials Research</i> , 2010, 25, 793-800.	2.6	18
84	Room-Temperature Synthesis of Cobalt Nanoparticles by Electroless Deposition in Aqueous Solution. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, D4.	2.2	18
85	<i>In situ</i> two-dimensional imaging quick-scanning XAFS with pixel array detector. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 919-922.	2.4	18
86	What determines the critical size for phase separation in LiFePO ₄ in lithium ion batteries?. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14532.	10.3	18
87	Sequential delithiation behavior and structural rearrangement of a nanoscale composite-structured Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ during charge-discharge cycles. <i>Scientific Reports</i> , 2020, 10, 10048.	3.3	18
88	Crystallisation behaviour of Cu ₆₀ Zr ₃₀ Ti ₁₀ bulk glassy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 744-748.	5.6	17
89	Viscosity of glassy Na ₂ O-B ₂ O ₃ -SiO ₂ system. <i>Journal of Non-Crystalline Solids</i> , 1987, 95-96, 1031-1038.	3.1	16
90	Determination of Atomic Sites of Nb Dissolved in Metastable Fe ₂₃ B ₆ Phase. <i>Materials Transactions</i> , 2002, 43, 1918-1920.	1.2	16

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91	Local Atomic Structure and Catalytic Activities in Electrodeposited Mo-Ni Alloys. <i>Materials Transactions</i> , 2002, 43, 1525-1529.	1.2	16
92	Elemental identification of a three-dimensional environment by complex x-ray holography. <i>Physical Review B</i> , 2005, 71, .	3.2	16
93	Reaction Mechanism of Li ₂ MnO ₃ Electrodes in an All-Solid-State Thin-Film Battery Analyzed by Operando Hard X-ray Photoelectron Spectroscopy. <i>Journal of the American Chemical Society</i> , 2022, 144, 236-247.	13.7	16
94	Anomalous Grazing X-ray Reflectometry for Determining the Number Density of Atoms in the Near-Surface Region. <i>Materials Transactions, JIM</i> , 1996, 37, 39-44.	0.9	15
95	Formation of Nickel Nanoparticles by Electroless Deposition Using NiO and Ni(OH) ₂ Suspensions. <i>Journal of the Electrochemical Society</i> , 2008, 155, D583.	2.9	15
96	Electrochemical QCM Study of the Synthesis Process of Cobalt Nanoparticles via Electroless Deposition. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, E1.	2.2	15
97	Electroless Deposition of Cobalt Nanowires in an Aqueous Solution under External Magnetic Field. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, D68.	2.2	15
98	Quantitative Analysis of Transition-Metal Migration Induced Electrochemically in Lithium-Rich Layered Oxide Cathode and Its Contribution to Properties at High and Low Temperatures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27109-27116.	3.1	15
99	Characterization of the Ni-Zn/TiO ₂ Nanocomposite Synthesized by the Liquid-Phase Selective-Deposition Method. <i>Materials Transactions</i> , 2004, 45, 2035-2038.	1.2	14
100	Structure of Bis(iodozincio)methane in THF Solution. <i>Chemistry Letters</i> , 2005, 34, 952-953.	1.3	14
101	Atomic imaging in EBCO superconductor films by an X-ray holography system using a toroidally bent graphite analyzer. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 530-533.	2.4	14
102	Revisit to diffraction anomalous fine structure. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1247-1251.	2.4	14
103	Strain-Induced Stabilization of Charged State in Li-Rich Layered Transition-Metal Oxide for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19298-19308.	3.1	14
104	Analysis of Cathode Reactions of Lithium Ion Cells Using Dynamic Electrochemical Impedance. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020502.	2.9	14
105	A New Quantitative Anomalous X-ray Scattering Method for the Structural Analysis of Amorphous Thin Films. <i>Transactions of the Japan Institute of Metals</i> , 1988, 29, 697-704.	0.5	13
106	Structure and reactivity of bis(iodozincio)methane solution. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5546-5551.	1.8	13
107	Correlation between local structure and stability of supercooled liquid state in Zr-based metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 449-451, 90-94.	5.6	13
108	X-ray Fluorescence Holography Study on Si _{1-x} Ge _x Single Crystal. <i>Materials Transactions</i> , 2004, 45, 1994-1997.	1.2	12

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109	Three-Dimensional Atomic Image around Mn Atoms in Diluted Magnetic Semiconductor Zn _{0.4} Mn _{0.6} Te Obtained by X-Ray Fluorescence Holography. Japanese Journal of Applied Physics, 2005, 44, 1011-1012.	1.5	12
110	Application of x-ray excited optical luminescence to x-ray standing wave method and atomic resolution holography. Physical Review B, 2007, 76, .	3.2	12
111	Effect of relaxation state on nucleation and grain growth of nanoscale quasicrystal in Zr-based bulk metallic glasses prepared under various cooling rates. Applied Physics Letters, 2011, 99, 061903.	3.3	12
112	Kinetically asymmetric charge and discharge behavior of LiNi _{0.5} Mn _{1.5} O ₄ at low temperature observed by in situ X-ray diffraction. Journal of Materials Chemistry A, 2014, 2, 15414-15419.	10.3	12
113	Effects of Film Formation on the Electrodeposition of Lithium. ChemElectroChem, 2020, 7, 4336-4342.	3.4	12
114	Atomic Structure Analysis of Amorphous Tb-Fe _{1-x} Cox Film Systems. Japanese Journal of Applied Physics, 1991, 30, 764-767.	1.5	11
115	Anomalous X-ray Scattering Study of Local Structures in the Superionic Conducting Glass (Cu _{1-x} Ag _x) ₂ (Cu ₂ O) _{0.35} (MoO ₃) _{0.35} . Materials Transactions, JIM, 1995, 36, 1434-1439.		
116	Local structure in quasicrystal-forming Zr-based metallic glasses correlated with a stability of the supercooled liquid state. Journal of Non-Crystalline Solids, 2007, 353, 3704-3708.	3.1	11
117	Glass-to-liquid transition in zirconium and palladium based metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 506-510.	5.6	11
118	A Pseudoternary Phase Diagram of the BaO-ZrO ₂ -ScO _{1.5} System at 1600°C and Solubility of Scandia into Barium Zirconate. Journal of Phase Equilibria and Diffusion, 2007, 28, 517-522.	1.4	11
119	Structural Analysis of Pd-Cu-Si Metallic Glassy Alloy Thin Films with Varying Glass Transition Temperature. Materials Transactions, 2011, 52, 1349-1355.	1.2	11
120	Structure analyses of Fe-substituted Li ₂ S-based positive electrode materials for Li-S batteries. Solid State Ionics, 2018, 320, 387-391.	2.7	11
121	Operando analysis of electronic band structure in an all-solid-state thin-film battery. Communications Chemistry, 2022, 5, .	4.5	11
122	Development of laboratory x-ray fluorescence holography equipment. Journal of Materials Research, 2003, 18, 1471-1473.	2.6	10
123	Crystallization accelerated by ultrasound in Pd-based metallic glasses. Journal of Alloys and Compounds, 2007, 434-435, 194-195.	5.5	10
124	Phase classification, electrical conductivity, and thermal stability of Bi ₂ (V _{0.95} TM _{0.05})O _{5.5+δ} (TM: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.7	10
125	Effect of Composition and Microstructure of Pd-Cu-Si Metallic Glassy Alloy Thin Films on Hydrogen Absorbing Properties. Materials Transactions, 2011, 52, 1807-1813.	1.2	10
126	Time-resolved Bragg coherent X-ray diffraction revealing ultrafast lattice dynamics in nano-thickness crystal layer using X-ray free electron laser. Journal of the Ceramic Society of Japan, 2013, 121, 283-286.	1.1	10

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127	Mechanism of Structural Change and the Trigger of Electrochemical Degradation of Li-Rich Layered Oxide Cathodes during Charge–Discharge Cycles. <i>ACS Applied Energy Materials</i> , 2019, 2, 8118-8124.	5.1	10
128	Structural study of liquid Na–Tl alloys by neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 1990, 117-118, 68-71.	3.1	9
129	Structural Study of Poly-Molybdate Ions in Acid Mo-Ni Aqueous Solutions. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1997, 52, 855-862.	1.5	9
130	Fullerene and Sulfur Compounds. <i>Materials Transactions</i> , 2002, 43, 1530-1532.	1.2	9
131	Incident Photon-Energy Dependence of the Electronic Density of States in Pd _{42.5} Ni _{7.5} Cu ₃₀ P ₂₀ Metallic Glass. <i>Materials Transactions</i> , 2005, 46, 2803-2806.	1.2	9
132	X-ray fluorescence holography of 0.078wt% copper in silicon steel. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 238, 192-195.	1.4	9
133	Crystallization behaviours around the glass transition temperature in an amorphous Fe–Nb–B alloy. <i>Intermetallics</i> , 2009, 17, 796-801.	3.9	9
134	Femtosecond Snapshot Holography with Extended Reference Using Extreme Ultraviolet Free-Electron Laser. <i>Applied Physics Express</i> , 2010, 3, 102701.	2.4	9
135	Structure and Hydrogen Permeation of Ni-Nb-Zr Amorphous Alloy. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005, 24-25, 551-554.	0.1	8
136	Reconstruction of atomic images from multiple-energy x-ray holograms of FePt films by the scattering pattern matrix method. <i>Applied Physics Letters</i> , 2005, 87, 234104.	3.3	8
137	Holographic Analysis of Incident Electron Beam Angular Distribution of Characteristic X-rays: Internal Detector Electron Holography. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 053601.	1.6	8
138	Local Structure Study in Zr-Based Metallic Glasses. <i>Materials Transactions</i> , 2007, 48, 1703-1707.	1.2	8
139	Improvement of Cycle Capability of Fe-Substituted Li ₂ S-Based Positive Electrode Materials by Doping with Lithium Iodide. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5231-A5236.	2.9	8
140	The Structure of Liquid Bi–Zn Alloys with Miscibility Gaps. <i>Journal of the Physical Society of Japan</i> , 1986, 55, 4296-4301.	1.6	7
141	Methods for the Quantitative Structural Analysis of Amorphous Ge Thin Film by X-rays. <i>Transactions of the Japan Institute of Metals</i> , 1988, 29, 1-7.	0.5	7
142	Preparation of a TiO ₂ Film Coated Si Device for Photo-Decomposition of Water by CVD Method Using Ti(OPr _i) ₄ . <i>Materials Transactions</i> , 2002, 43, 1533-1536.	1.2	7
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