

Eiichiro Matsubara

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232 papers	4,311 citations	32 h-index	55 g-index
238 ext. papers	4,691 ext. citations	3.7 avg, IF	5.15 L-index

#	Paper	IF	Citations
232	Excess free volume in metallic glasses measured by X-ray diffraction. <i>Acta Materialia</i> , 2005 , 53, 1611-1619	19.4	313
231	Direct observation of a metastable crystal phase of Li(x)FePO ₄ under electrochemical phase transition. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5497-500	16.4	159
230	Hydrogen permeation and structural features of melt-spun NiNbZr amorphous alloys. <i>Acta Materialia</i> , 2005 , 53, 3703-3711	8.4	124
229	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	2.3	121
228	Intercalation and Push-Out Process with Spinel-to-Rocksalt Transition on Mg Insertion into Spinel Oxides in Magnesium Batteries. <i>Advanced Science</i> , 2015 , 2, 1500072	13.6	117
227	A concept of dual-salt polyvalent-metal storage battery. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1144-1149	11.49	116
226	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	9.6	103
225	Crystallization Behavior of Amorphous Fe ₉₀ -XNb ₁₀ BX (X=10 and 30) Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1526-1529		98
224	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	5.3	95
223	Electrochemical Stability of Magnesium Battery Current Collectors in a Grignard Reagent-Based Electrolyte. <i>Journal of the Electrochemical Society</i> , 2013 , 160, C83-C88	3.9	90
222	Surface modification of ACM522 magnesium alloy by plasma electrolytic oxidation in phosphate electrolyte. <i>Corrosion Science</i> , 2012 , 57, 74-80	6.8	65
221	Toward Locking-chair type Mg/Li dual-salt batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10188-10194	11.3	64
220	Preferential formation of anatase in laser-ablated titanium dioxide films. <i>Acta Materialia</i> , 2005 , 53, 323-329	11.4	59
219	Three-dimensional electron density mapping of shape-controlled nanoparticle by focused hard X-ray diffraction microscopy. <i>Nano Letters</i> , 2010 , 10, 1922-6	11.5	57
218	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,	3.3	56
217	Stability of glassy state in Zr-based glassy alloys correlated with nano icosahedral phase formation. <i>Annales De Chimie: Science Des Materiaux</i> , 2002 , 27, 77-89	2.1	56
216	Ultrasound-induced crystallization around the glass transition temperature for Pd ₄₀ Ni ₄₀ P ₂₀ metallic glass. <i>Acta Materialia</i> , 2004 , 52, 423-429	8.4	55

215	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	8.9	52
214	Direct observation of layered-to-spinel phase transformation in Li ₂ MnO ₃ and the spinel structure stabilised after the activation process. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6695-6707	13	50
213	Amorphous Metal Polysulfides: Electrode Materials with Unique Insertion/Extraction Reactions. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8796-8799	16.4	50
212	Formation of self-repairing anodized film on ACM522 magnesium alloy by plasma electrolytic oxidation. <i>Corrosion Science</i> , 2013 , 73, 188-195	6.8	47
211	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	5.7	47
210	Glass-liquid transition in a less-stable metallic glass. <i>Physical Review B</i> , 2005 , 72,	3.3	45
209	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	3.9	44
208	Three-dimensional nanoelectrode by metal nanowire nonwoven clothes. <i>Nano Letters</i> , 2014 , 14, 1932-7	11.5	43
207	Effect of Al on Local Structures of Zr–Ni and Zr–Cu Metallic Glasses. <i>Materials Transactions</i> , 2005 , 46, 2893-2897	1.3	42
206	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	3.9	39
205	Nanoquasicrystallization in Metallic Glasses. <i>Materials Transactions</i> , 2003 , 44, 1971-1977	1.3	39
204	Electronic States of Sulfur Doped TiO ₂ by First Principles Calculations. <i>Materials Transactions</i> , 2004 , 45, 1987-1990	1.3	35
203	In-situ X-ray Diffraction of Corrosion Products Formed on Iron Surfaces. <i>Materials Transactions</i> , 2005 , 46, 637-642	1.3	34
202	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	8.9	32
201	Mechanism of nanocrystalline microstructure formation in amorphous Fe–Nb alloys. <i>Physical Review B</i> , 2006 , 74,	3.3	32
200	Initial Atomic Motion Immediately Following Femtosecond-Laser Excitation in Phase-Change Materials. <i>Physical Review Letters</i> , 2016 , 117, 135501	7.4	32
199	High-resolution projection image reconstruction of thick objects by hard x-ray diffraction microscopy. <i>Physical Review B</i> , 2010 , 82,	3.3	31
198	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	3.9	31

- ¹⁹⁷ Formation of Cu Nanoparticles by Electroless Deposition Using Aqueous CuO Suspension. *Journal of the Electrochemical Society*, **2008**, 155, D474 3.9 29
- ¹⁹⁶ EQCM analysis of redox behavior of Prussian blue in a lithium battery electrolyte. *Journal of Materials Chemistry A*, **2014**, 2, 8041 13 28
- ¹⁹⁵ Ex-situ and in-situ X-ray diffractions of corrosion products freshly formed on the surface of an iron/Silicon alloy. *Corrosion Science*, **2007**, 49, 1081-1096 6.8 28
- ¹⁹⁴ Local Structure of Ferric Hydroxide Fe(OH)₃ in Aqueous Solution by the Anomalous X-ray Scattering and EXAFS Methods. *Materials Transactions, JIM*, **1994**, 35, 394-398 28
- ¹⁹³ Spectroscopic X-ray Diffraction for Microfocus Inspection of Li-Ion Batteries. *Journal of Physical Chemistry C*, **2014**, 118, 20750-20755 3.8 27
- ¹⁹² Synthesis of Binary Magnesium-Transition Metal Oxides via Inverse Coprecipitation. *Japanese Journal of Applied Physics*, **2013**, 52, 025501 1.4 27
- ¹⁹¹ Element-specific hard x-ray diffraction microscopy. *Physical Review B*, **2008**, 78, 3.3 27
- ¹⁹⁰ Partial structure analysis of amorphous Ge₁₅Te₈₀M₅ (M=Cu, Ag and In). *Journal of Non-Crystalline Solids*, **2002**, 312-314, 585-588 3.9 27
- ¹⁸⁹ Elastically constrained phase-separation dynamics competing with the charge process in the LiFePO₄/FePO₄ system. *Journal of Materials Chemistry A*, **2013**, 1, 2567 13 26
- ¹⁸⁸ Thickness estimation of interface films formed on Li_{1-x}CoO₂ electrodes by hard X-ray photoelectron spectroscopy. *Journal of Power Sources*, **2011**, 196, 10679-10685 8.9 26
- ¹⁸⁷ Synthesis of Spinel-Type Magnesium Cobalt Oxide and Its Electrical Conductivity. *Materials Transactions*, **2008**, 49, 824-828 1.3 25
- ¹⁸⁶ Roles of transition metals interchanging with lithium in electrode materials. *Physical Chemistry Chemical Physics*, **2015**, 17, 14064-70 3.6 24
- ¹⁸⁵ A new aspect of Chevrel compounds as positive electrodes for magnesium batteries. *Journal of Materials Chemistry A*, **2014**, 2, 14858-14866 13 24
- ¹⁸⁴ Formation of Nickel Nanowires via Electroless Deposition Under a Magnetic Field. *Journal of the Electrochemical Society*, **2011**, 158, E79 3.9 24
- ¹⁸³ High oxide-ion conductivity of monovalent-metal-doped bismuth vanadate at intermediate temperatures. *Solid State Ionics*, **2010**, 181, 719-723 3.3 24
- ¹⁸² Structural study in amorphous Zr/Bioble metal (Pd, Pt and Au) alloys. *Journal of Non-Crystalline Solids*, **2002**, 312-314, 517-521 3.9 24
- ¹⁸¹ One-pot synthesis of silica-coated copper nanoparticles with high chemical and thermal stability. *Journal of Colloid and Interface Science*, **2015**, 460, 47-54 9.3 23
- ¹⁸⁰ Fabrication of Cobalt Nanowires by Electroless Deposition under External Magnetic Field. *Journal of the Electrochemical Society*, **2011**, 158, D210 3.9 23

179	Approach for three-dimensional observation of mesoscopic precipitates in alloys by coherent x-ray diffraction microscopy. <i>Applied Physics Letters</i> , 2007 , 90, 184105	3.4	23
178	Intermediate-range order in glassy Ge ₂ Se ₁₁ around the stiffness transition composition. <i>Journal of Non-Crystalline Solids</i> , 2004 , 337, 54-61	3.9	23
177	Inhibition of Conversion Process from Fe(OH) ₃ to β -FeOOH and α -Fe ₂ O ₃ by the Addition of Silicate Ions. <i>ISIJ International</i> , 2005 , 45, 77-81	1.7	23
176	Local Structure and Glass Transition in Zr-Based Binary Amorphous Alloys. <i>Materials Transactions</i> , 2005 , 46, 2282-2286	1.3	23
175	Hidden Two-Step Phase Transition and Competing Reaction Pathways in LiFePO ₄ . <i>Chemistry of Materials</i> , 2017 , 29, 2855-2863	9.6	21
174	Oxidation-State Control of Nanoparticles Synthesized via Chemical Reduction Using Potential Diagrams. <i>Journal of the Electrochemical Society</i> , 2009 , 156, D321	3.9	21
173	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	3.9	20
172	Influence of Mechanical Strain on the Electrochemical Lithiation of Aluminum-Based Electrode Materials. <i>Journal of the Electrochemical Society</i> , 2011 , 159, A14-A17	3.9	20
171	Epitaxial relation and island growth of perylene-3,4,9,10-tetracarboxylic dianhydride (PTCDA) thin film crystals on a hydrogen-terminated Si(1 1 1) substrate. <i>Journal of Crystal Growth</i> , 2004 , 262, 196-201	1.6	20
170	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	3.9	19
169	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	1.3	19
168	Structural Study of Amorphous Fe ₇₀ M ₁₀ B ₂₀ (M=Cr, W, Nb, Zr and Hf) Alloys by X-ray Diffraction. <i>Materials Transactions</i> , 2001 , 42, 1530-1534	1.3	19
167	Structural Study of Liquid Na-Bi Alloys by Neutron Diffraction. <i>Journal of the Physical Society of Japan</i> , 1987 , 56, 3934-3940	1.5	19
166	Effects of water content on magnesium deposition from a Grignard reagent-based tetrahydrofuran electrolyte. <i>Research on Chemical Intermediates</i> , 2014 , 40, 3-9	2.8	18
165	In situ two-dimensional imaging quick-scanning XAFS with pixel array detector. <i>Journal of Synchrotron Radiation</i> , 2011 , 18, 919-22	2.4	18
164	Electroless Deposition of Ferromagnetic Cobalt Nanoparticles in Propylene Glycol. <i>Journal of the Electrochemical Society</i> , 2009 , 156, E139	3.9	18
163	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	3.9	18
162	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		18

161	Mechanical synthesis and structural properties of the fast fluoride-ion conductor PbSnF ₄ . <i>Journal of Solid State Chemistry</i> , 2017 , 253, 287-293	3.3	17
160	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	13	17
159	Electrochemical Study on the Synthesis Process of CoNi Alloy Nanoparticles via Electroless Deposition. <i>Journal of the Electrochemical Society</i> , 2010 , 157, E92	3.9	17
158	Room-Temperature Synthesis of Cobalt Nanoparticles by Electroless Deposition in Aqueous Solution. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, D4		17
157	Crystallization Behavior and Structural Stability of Zr ₅₀ Cu ₄₀ Al ₁₀ Bulk Metallic Glass. <i>Materials Transactions</i> , 2009 , 50, 1340-1345	1.3	17
156	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	5.3	17
155	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	17
154	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	1.3	17
153	Constructing metal-anode rechargeable batteries utilizing concomitant intercalation of Li/Mg dual cations into Mo ₆ S ₈ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3534-3540	13	16
152	Time-resolved coherent diffraction of ultrafast structural dynamics in a single nanowire. <i>Nano Letters</i> , 2014 , 14, 2413-8	11.5	16
151	On the preferential formation of anatase in amorphous titanium oxide film. <i>Scripta Materialia</i> , 2005 , 53, 1019-1023	5.6	16
150	Determination of Atomic Sites of Nb Dissolved in Metastable Fe ₂₃ B ₆ Phase. <i>Materials Transactions</i> , 2002 , 43, 1918-1920	1.3	16
149	Electroless Deposition of Cobalt Nanowires in an Aqueous Solution under External Magnetic Field. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, D68		15
148	Formation of Nickel Nanoparticles by Electroless Deposition Using NiO and Ni(OH) ₂ Suspensions. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D583	3.9	15
147	Elemental identification of a three-dimensional environment by complex x-ray holography. <i>Physical Review B</i> , 2005 , 71,	3.3	15
146	Local Atomic Structure and Catalytic Activities in Electrodeposited Mo-Ni Alloys. <i>Materials Transactions</i> , 2002 , 43, 1525-1529	1.3	15
145	A Reversible Rocksalt to Amorphous Phase Transition Involving Anion Redox. <i>Scientific Reports</i> , 2018 , 8, 15086	4.9	15
144	Precipitation of the ZrCu B ₂ phase in Zr ₅₀ Cu _{50-x} Al _x (x = 0, 4, 6) metallic glasses by rapidly heating and cooling. <i>Journal of Materials Research</i> , 2010 , 25, 793-800	2.5	14

143	Retraction: Anomalous X-ray Scattering Study of Amorphous Fe ₇₀ M ₁₀ B ₂₀ (M = Zr, Nb, and Cr) Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1379-1384		14
142	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	3.9	14
141	Revisit to diffraction anomalous fine structure. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 1247-51	2.4	13
140	Electrochemical QCM Study of the Synthesis Process of Cobalt Nanoparticles via Electroless Deposition. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, E1		13
139	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	5.3	13
138	Characterization of the Ni-Zn/TiO ₂ Nanocomposite Synthesized by the Liquid-Phase Selective-Deposition Method. <i>Materials Transactions</i> , 2004 , 45, 2035-2038	1.3	13
137	Structure of Bis(iodozincio)methane in THF Solution. <i>Chemistry Letters</i> , 2005 , 34, 952-953	1.7	13
136	Structure and reactivity of bis(iodozincio)methane solution. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 5546-5551	2.3	13
135	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		13
134	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		13
133	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	3.8	12
132	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	3.8	12
131	Application of x-ray excited optical luminescence to x-ray standing wave method and atomic resolution holography. <i>Physical Review B</i> , 2007 , 76,	3.3	12
130	Analysis of the discharge/charge mechanism in VS ₄ positive electrode material. <i>Solid State Ionics</i> , 2018 , 323, 32-36	3.3	12
129	Effect of relaxation state on nucleation and grain growth of nanoscale quasicrystal in Zr-based bulk metallic glasses prepared under various cooling rates. <i>Applied Physics Letters</i> , 2011 , 99, 061903	3.4	11
128	Glass-to-liquid transition in zirconium and palladium based metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 506-510	5.3	11
127	X-ray Fluorescence Holography Study on Si _{1-x} Ge _x Single Crystal. <i>Materials Transactions</i> , 2004 , 45, 1994-1997	1.3	11
126	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, 530-3	2.4	11

125	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	9.5	11
124	Structural characterization of an amorphous VS and its lithiation/delithiation behavior studied by solid-state NMR spectroscopy.. <i>RSC Advances</i> , 2019 , 9, 23979-23985	3.7	10
123	Time-resolved Bragg coherent X-ray diffraction revealing ultrafast lattice dynamics in nano-thickness crystal layer using X-ray free electron laser. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 283-286	1	10
122	Structural Analysis of Pd-Cu-Si Metallic Glassy Alloy Thin Films with Varying Glass Transition Temperature. <i>Materials Transactions</i> , 2011 , 52, 1349-1355	1.3	10
121	Phase classification, electrical conductivity, and thermal stability of Bi ₂ (V _{0.95} Ti _{0.05})O _{5.5} +□(TM: transition metal). <i>Solid State Ionics</i> , 2010 , 181, 1279-1286	3.3	10
120	A Pseudoternary Phase Diagram of the BaO-ZrO ₂ -ScO _{1.5} System at 1600 °C and Solubility of Scandia into Barium Zirconate. <i>Journal of Phase Equilibria and Diffusion</i> , 2007 , 28, 517-522	1	10
119	Local structure in quasicrystal-forming Zr-based metallic glasses correlated with a stability of the supercooled liquid state. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3704-3708	3.9	10
118	Three-Dimensional Atomic Image around Mn Atoms in Diluted Magnetic Semiconductor Zn _{0.4} Mn _{0.6} Te Obtained by X-Ray Fluorescence Holography. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1011-1012	1.4	10
117	Anomalous X-ray Scattering Study of Local Structures in the Superionic Conducting Glass (CuI) _{0.3} (Cu ₂ O) _{0.35} (MoO ₃) _{0.35} . <i>Materials Transactions, JIM</i> , 1995 , 36, 1434-1439		10
116	Sequential delithiation behavior and structural rearrangement of a nanoscale composite-structured LiNiMnO during charge-discharge cycles. <i>Scientific Reports</i> , 2020 , 10, 10048	4.9	10
115	Structure analyses of Fe-substituted Li ₂ S-based positive electrode materials for Li-S batteries. <i>Solid State Ionics</i> , 2018 , 320, 387-391	3.3	9
114	Effect of Composition and Microstructure of Pd-Cu-Si Metallic Glassy Alloy Thin Films on Hydrogen Absorbing Properties. <i>Materials Transactions</i> , 2011 , 52, 1807-1813	1.3	9
113	Crystallization behaviours around the glass transition temperature in an amorphous Fe ₇₅ Ni ₂₅ alloy. <i>Intermetallics</i> , 2009 , 17, 796-801	3.5	9
112	Femtosecond Snapshot Holography with Extended Reference Using Extreme Ultraviolet Free-Electron Laser. <i>Applied Physics Express</i> , 2010 , 3, 102701	2.4	9
111	Development of laboratory x-ray fluorescence holography equipment. <i>Journal of Materials Research</i> , 2003 , 18, 1471-1473	2.5	9
110	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	1.3	9
109	X-ray fluorescence holography of 0.078wt% copper in silicon steel. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 238, 192-195	1.2	9
108	Structural study of liquid Na ₂ Tl alloys by neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 1990 , 117-118, 68-71	3.9	9

107	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. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15414-15419	13	8
106	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	1.5	8
105	Structure and Hydrogen Permeation of Ni-Nb-Zr Amorphous Alloy. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005 , 24-25, 551-554	0.2	8
104	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	3.4	8
103	Iron Alloying Effect on Formation of Cobalt Nanoparticles and Nanowires via Electroless Deposition under a Magnetic Field. <i>Journal of the Electrochemical Society</i> , 2014 , 161, D59-D66	3.9	7
102	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	1.4	7
101	Formation of Tin Nanoparticles Embedded in Poly(L-Lactic Acid) Fiber by Electrospinning. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, E25		7
100	Local Structure Study in Zr-Based Metallic Glasses. <i>Materials Transactions</i> , 2007 , 48, 1703-1707	1.3	7
99	Crystallization accelerated by ultrasound in Pd-based metallic glasses. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 194-195	5.7	7
98	Fullerene and Sulfur Compounds. <i>Materials Transactions</i> , 2002 , 43, 1530-1532	1.3	7
97	Preparation of a TiO ₂ Film Coated Si Device for Photo-Decomposition of Water by CVD Method Using Ti(OPri) ₄ . <i>Materials Transactions</i> , 2002 , 43, 1533-1536	1.3	7
96	Atomic Structure Analysis of Amorphous Tb-Fe _{1-x} Cox Film Systems. <i>Japanese Journal of Applied Physics</i> , 1991 , 30, 764-767	1.4	7
95	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		7
94	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	3.9	6
93	Direct Synthesis of Carbon/Molybdenum Carbide Nanosheet Composites via a Pseudotopotactic Solid-State Reaction. <i>Chemistry of Materials</i> , 2016 , 28, 8899-8904	9.6	6
92	Site-Selective Analysis of Nickel-Substituted Li-Rich Layered Material: Migration and Role of Transition Metal at Charging and Discharging. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20099-20107	3.8	6
91	Research Update: Retardation and acceleration of phase separation evaluated from observation of imbalance between structure and valence in LiFePO ₄ /FePO ₄ electrode. <i>APL Materials</i> , 2014 , 2, 070701	5.7	6
90	Abnormal Behavior of Hydrogen Response and Hydrogen Induced Linear Expansion Coefficient of Pd-Cu-Si Metallic Glassy Alloys for Thin Film Hydrogen Sensor. <i>Materials Transactions</i> , 2011 , 52, 1148-1155	1.3	6

89	Ultrasound-Induced Structural Anomaly of Supercooled Liquid in Some Bulk Metallic Glasses. <i>Materials Transactions</i> , 2004 , 45, 1189-1193	1.3	6
88	The Structure of Liquid BiZn Alloys with Miscibility Gaps. <i>Journal of the Physical Society of Japan</i> , 1986 , 55, 4296-4301	1.5	6
87	Analysis of Cathode Reactions of Lithium Ion Cells Using Dynamic Electrochemical Impedance. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 020502	3.9	6
86	Effects of Film Formation on the Electrodeposition of Lithium. <i>ChemElectroChem</i> , 2020 , 7, 4336-4342	4.3	6
85	High-capacity Lithium-ion Storage System Using Unilamellar Crystallites of Exfoliated MoO ₂ Nanosheets. <i>Chemistry Letters</i> , 2015 , 44, 1595-1597	1.7	5
84	Room-Temperature Synthesis of Cobalt Nanoparticles in Aqueous Solution. <i>ECS Transactions</i> , 2010 , 28, 29-34	1	5
83	In situ structural analysis of corrosion products formed on the surfaces of iron-based alloys. <i>Surface and Interface Analysis</i> , 2008 , 40, 307-310	1.5	5
82	The crystal structure and electronic properties of a new metastable non-stoichiometric BaAl ₄ -type compound crystallized from amorphous La ₆ Ni ₃₄ Ge ₆₀ alloy. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 7917-7930	1.8	5
81	EXAFS and SAXS analysis for nano-structural origin of high strength for supersaturated Al ₁₀₀ Be (x = 1, 2.5) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 1224-1227	5.3	5
80	Crystallization Behavior of α -Fe in Fe ₈₄ Nb ₇ B ₉ and Fe ₈₅ Nb ₆ B ₉ Amorphous Alloys. <i>Materials Transactions</i> , 2004 , 45, 1199-1203	1.3	5
79	Evidence for the Diffusion of Au Atoms into the Te UPD Layer Formed on a Au(111) Substrate. <i>Journal of the Electrochemical Society</i> , 2002 , 149, C83	3.9	5
78	Structural Study of Poly-Molybdate Ions in Acid Mo-Ni Aqueous Solutions. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 576	1.4	5
77	Magnetic properties of Fe-based icosahedral cluster amorphous alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 181-182, 860-863	5.3	5
76	The Additional Effect of Zn to Ni Nanoparticles and Their Catalytic Activity.. <i>Shigen-to-Sozai</i> , 2002 , 118, 211-216		5
75	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	6.1	4
74	Effects of oxygen content and heating rate on phase transition behavior in Bi ₂ (V _{0.95} Ti _{0.05})O _{5.475} . <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5833-5838	5.7	4
73	Local Structure around Pd Atoms in Pd _{42.5} Ni _{7.5} Cu ₃₀ P ₂₀ Excellent Glass-Former Studied by Anomalous X-ray Scattering. <i>Materials Transactions</i> , 2007 , 48, 2358-2361	1.3	4
72	Effect of Al on the local structure and stability of Zr-based metallic glasses. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 135-137	5.7	4

71	Toroidal Bend Graphite X-ray Monochromator.. <i>Materia Japan</i> , 1999 , 38, 43-45	0.1	4
70	Application of Energy Dispersive Grazing Incidence X-ray Reflectometry Method to Structural Analysis of Liquid/Liquid and Liquid/Solid Interfaces. <i>Materials Transactions, JIM</i> , 2000 , 41, 1651-1656		4
69	Development of New In-House Grazing X-ray Reflection System for Analyzing Liquid Surface and Interface. <i>Materials Transactions, JIM</i> , 1996 , 37, 1409-1412		4
68	Diffuse Scattering of Superionic Phase of Cu ₂ Se. <i>Journal of the Physical Society of Japan</i> , 1993 , 62, 3513-3518	1.5	4
67	Surface Structure of Nanometer-Sized Zinc Ferrite Particles by the Anomalous X-ray Scattering (AXS) Method. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1992 , 47, 1023-1028	1.4	4
66	Site- and phase-selective x-ray absorption spectroscopy based on phase-retrieval calculation. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 113002	1.8	3
65	Structural modification by adding Li cations into Mg/Cs-TFSA molten salt facilitating Mg electrodeposition. <i>RSC Advances</i> , 2015 , 5, 3063-3069	3.7	3
64	Magnetic field strength controlled liquid phase syntheses of ferromagnetic metal nanowire. <i>Nanotechnology</i> , 2020 , 31, 365602	3.4	3
63	Structural and dynamic behavior of lithium iron polysulfide Li ₈ FeS ₅ during charge/discharge cycling. <i>Journal of Power Sources</i> , 2018 , 398, 67-74	8.9	3
62	Electroless Deposition of Nickel Nanoparticles at Room Temperature. <i>Advanced Materials Research</i> , 2014 , 974, 107-111	0.5	3
61	Observation of electromigration in a Cu thin line by in situ coherent x-ray diffraction microscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 124911	2.5	3
60	Change in local environment upon quasicrystallization of Zr-Cu glassy alloys by addition of Pd and Pt. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 175303	1.8	3
59	Phase Stability of Bi ₂ (V _{1-x} ME _x)O _{5.5+δ} ; (ME=Li and Ag, x=0.05 and 0.1). <i>Materials Transactions</i> , 2010 , 51, 561-566	1.3	3
58	Partial Sulfurization of Laser-ablated Titanium Oxide Film for the Improvement in Photocatalytic Property. <i>Materials Transactions</i> , 2003 , 44, 685-687	1.3	3
57	Development of in-house fast X-ray diffraction apparatus and its application to the supercooled liquid Pd ₄₀ Ni ₁₀ Cu ₃₀ P ₂₀ alloy. <i>Science and Technology of Advanced Materials</i> , 2002 , 3, 69-73	7.1	3
56	Suppression of the Conversion Process of Fe(OH) ₃ to FeOOH and Fe ₂ O ₃ by Silicate Ions. <i>High Temperature Materials and Processes</i> , 2005 , 24, 275-288	0.9	3
55	Local Atomic Structure and Electronic State of ZnS Films Synthesized by Using CBD Technique. <i>Materials Transactions</i> , 2002 , 43, 1512-1516	1.3	3
54	Structural Studies of Aqueous Solutions by the Anomalous X-ray Scattering Method. <i>High Temperature Materials and Processes</i> , 1998 , 17, 133-143	0.9	3

53	Structural Study of Thin Amorphous SiO ₂ and Si ₃ N ₄ Films by the Grazing Incidence X-Ray Scattering (GIXS) Method. <i>High Temperature Materials and Processes</i> , 1999 , 18, 99-107	0.9	3
52	Local Atomic Structures of Zr ₇₀ Ga ₁₀ Ni ₂₀ Amorphous Alloys by the Anomalous X-ray Scattering Method. <i>Materials Transactions, JIM</i> , 1995 , 36, 1093-1096		3
51	Ligancy-Driven Controlling of Covalency and Metallicity in a Ruthenium Two-Dimensional System. <i>Chemistry of Materials</i> , 2016 , 28, 5784-5790	9.6	3
50	Application of Anomalous X-ray Scattering Method to Liquid Electrolytes Used in a Battery: Local Structural Analysis around a Dilute Metallic Ion. <i>Analytical Chemistry</i> , 2020 , 92, 9956-9962	7.8	2
49	Direct observation of elastic softening immediately after femtosecond-laser excitation in a phase-change material. <i>Physical Review B</i> , 2020 , 101,	3.3	2
48	Liquid-phase synthesis of Ni nanowire/cellulose hybrid structure. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 02CA09	1.4	2
47	Growth of Cobalt Nanowires under External Magnetic Field. <i>Advanced Materials Research</i> , 2014 , 911, 136-140	0.5	2
46	Synthesis of Silica-Coated Copper Nanoparticles and its Application to Red Color Glaze. <i>Advanced Materials Research</i> , 2014 , 970, 288-292	0.5	2
45	Structural Stability and Elasticity in Zr-Based Bulk Metallic Glasses. <i>Materials Science Forum</i> , 2007 , 561-565, 1391-1395	0.4	2
44	Study on Fabrication of Titanium Oxide Films by Oxygen Pressure Controlled Pulsed Laser Deposition. <i>Materials Transactions</i> , 2004 , 45, 2068-2072	1.3	2
43	??X?????????????????. <i>Materia Japan</i> , 2001 , 40, 801-807	0.1	2
42	Feasibility Study of Local Structure Analysis of Ultrathin Films by X-ray Fluorescence Holography. <i>Materials Transactions</i> , 2002 , 43, 1475-1479	1.3	2
41	Local Atomic Structures in Amorphous and Quasicrystalline Zr ₇₀ Ni ₁₀ Pt ₂₀ and Zr ₈₀ Pt ₂₀ Alloys by the Anomalous X-ray Scattering Method. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 644, 111		2
40	Crystallization of Zr ₅₀ Cu ₄₀ Al ₁₀ Metallic Glass by Rapid Heating Process. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2009 , 58, 205-208	0.1	2
39	Contactless analysis of electric dipoles at high-k/SiO ₂ interfaces by surface-charge-switched electron spectroscopy. <i>Applied Physics Letters</i> , 2016 , 108, 211604	3.4	2
38	An experimental procedure for precise evaluation of electron density distribution of a nanostructured material by coherent x-ray diffraction microscopy. <i>Review of Scientific Instruments</i> , 2010 , 81, 033707	1.7	1
37	Formation of Nickel Nanowires by Electroless Deposition. <i>ECS Transactions</i> , 2012 , 41, 1-7	1	1
36	Effects of Transformation Strain Due to Lithiation/delithiation in Sn Electrode of Li-ion Batteries. <i>Electrochemistry</i> , 2010 , 78, 460-462	1.2	1

35	Coherent x-ray diffraction measurements of Cu thin lines. <i>Surface and Interface Analysis</i> , 2008 , 40, 1046-1049	1	1
34	Elastic Properties of Cu-Based Bulk Metallic Glass around Glass Transition Temperature. <i>Materials Science Forum</i> , 2007 , 539-543, 1932-1936	0.4	1
33	Measurment of Incident Beam Angular Dependence of X-Ray Luminescence Intensity and Possibility of New Atom Resolved Holography. <i>Bunseki Kagaku</i> , 2006 , 55, 441-446	0.2	1
32	Atomizing Effect on Sn-Zn Based Solder Alloy. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2006 , 70, 162-165	0.4	1
31	Local Structure Change Around Ni Atoms in MgNi Alloys during Mechanical Alloying Process. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004 , 20-21, 635-640	0.2	1
30	Anomalous Crystallization Induced by Ultrasound in Pd _{42.5} Ni _{7.5} Cu ₃₀ P ₂₀ Metallic Glass. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005 , 24-25, 547-550	0.2	1
29	In situ detection method for obtaining permeability of Fe-based amorphous alloys: ac resistance measurement for Fe ₈₄ Nb ₇ B ₉ . <i>Applied Physics Letters</i> , 2005 , 86, 032503	3.4	1
28	In-house Anomalous X-ray Scattering Analysis for the Amorphous Zr ₆₀ Al ₁₅ Ni ₂₅ Alloy. <i>Materials Transactions</i> , 2001 , 42, 1977-1980	1.3	1
27	Structural Study of Amorphous La(Co _{1-x} Tm _x) ₁₃ Alloys by X-ray Diffraction. <i>Materials Transactions, JIM</i> , 1999 , 40, 7-12		1
26	The Structure of Amorphous Platinum Disulfide as Studied by Anomalous X-ray Scattering. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1994 , 49, 1031-1036	1.4	1
25	Frontiers in Crystallography with Synchrotron Radiation. X-ray Studies near Absorption Edges of Elements. Atom-Selective Experiments. Structure Analysis of Disordered Materials by the Anomalous X-ray Scattering (AXS) Method.. <i>Nihon Kessho Gakkaishi</i> , 1997 , 39, 20-25	0	1
24	Materials Science in Metallic Glasses. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2009 , 58, 187-192	0.1	1
23	Electrochemical Analysis in Fabrication of Co-Ni Alloy Nanoparticles in Nonaqueous Solution. <i>Journal of MMIJ</i> , 2011 , 127, 103-107	0.3	1
22	Ingredients of the Soup in the Chemist's Cauldron: Structural Analysis of Organometallics in the Solution by X-ray.. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2002 , 60, 383-388	0.2	0
21	Degradation mechanisms of lithium sulfide (Li ₂ S) composite cathode in carbonate electrolyte and improvement by increasing electrolyte concentration. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 1714-1726	5.8	0
20	Li ₂ NbO ₃ ∥Li ₂ MnO ₃ Pseudo-Binary Compounds Crystallizing into Distorted Rocksalt Structures. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900003	1.3	
19	Electronic, Structural, and Electrochemical Modulation of Electrostatic Self-Assembled 1T-MoS ₂ Nanosheets via Topotactic Structural Conversion. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015 , 13, 1-7	0.7	
18	Formation of Cobalt Nanoparticles from Co(OH) ₂ Suspension. <i>Advanced Materials Research</i> , 2014 , 974, 50-54	0.5	

- 17 A Proposal for the New Concept of Structures of Metallic Glasses. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2009**, 56, 679-682 0.2
- 16 Formation of Columnar-Shaped Structure of Fe in Fe_{0.8}Rn Thin Films and Its Shape-Magnetic Anisotropy. *Japanese Journal of Applied Physics*, **2011**, 50, 013004 1.4
- 15 Development of incident x-ray flux monitor for coherent x-ray diffraction microscopy. *Journal of Physics: Conference Series*, **2009**, 186, 012060 0.3
- 14 Nanostructure analysis by coherent hard X-ray diffraction. *Journal of Physics: Conference Series*, **2009**, 186, 012056 0.3
- 13 ??????????????????????. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2010**, 60, 548-551 0.3
- 12 Molecular Dynamics Simulation and Statistical Analysis for Glass Transition in a Lennard-Jones System. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2008**, 72, 158-162 0.4
- 11 Electrochemical Iron-Chromium Alloying of Carbon Steel Surface Using Alternating Pulsed Electrolysis. *Materials Transactions*, **2008**, 49, 1346-1354 1.3
- 10 Ultrasonic Spectroscopy and X-Ray Diffraction Study for ARB Aluminum. *Materials Science Forum*, **2007**, 561-565, 937-940 0.4
- 9 Peculiar structure of X-ray standing wave lines of Si:As. *Nuclear Instruments & Methods in Physics Research B*, **2003**, 199, 382-385 1.2
- 8 Stability and Icosahedral Transformation of Supercooled Liquid in Metal-Metal type Bulk Glassy Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 805, 188
- 7 Stability and Icosahedral Transformation of Supercooled Liquid in Metal-Metal type Bulk Glassy Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 806, 161
- 6 Hydrogen Permeation Characteristics and Structural Features of Melt-Spun Ni-Nb-Zr Amorphous Alloy Membranes. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 315-318 0.2
- 5 Three-dimensional Imaging of Nanoscale Internal Structure by Coherent X-ray Diffraction Microscope. *Materia Japan*, **2007**, 46, 827-827 0.1
- 4 Characterization of the environmental structure of disordered materials using anomalous X-ray scattering **1993**, 14-21
- 3 Local Structural Analyses of Non-crystalline Materials by the Anomalous X-ray Scattering (AXS) Method.. *Nihon Kessho Gakkaishi*, **1997**, 39, 309-314 0
- 2 Framework Structures for Mg Battery Cathodes. *Materials Science Forum*, **2016**, 879, 2150-2152 0.4
- 1 Facile Synthesis of Ni Nanowire Composite via Liquid Phase Reduction: Effect of a Magnetic Field. *Materials Science Forum*, **2018**, 936, 20-24 0.4