Eiichiro Matsubara

List of Publications by Year in Descending Order

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	Degradation mechanisms of lithium sulfide (Li2S) composite cathode in carbonate electrolyte and improvement by increasing electrolyte concentration. *Sustainable Energy and Fuels*, **2021**, 5, 1714-1726	5.8	0
231	Magnetic field strength controlled liquid phase syntheses of ferromagnetic metal nanowire. *Nanotechnology*, **2020**, 31, 365602	3.4	3
230	Application of Anomalous X-ray Scattering Method to Liquid Electrolytes Used in a Battery: Local Structural Analysis around a Dilute Metallic Ion. *Analytical Chemistry*, **2020**, 92, 9956-9962	7.8	2
229	Direct observation of elastic softening immediately after femtosecond-laser excitation in a phase-change material. *Physical Review B*, **2020**, 101,	3.3	2
228	Analysis of Cathode Reactions of Lithium Ion Cells Using Dynamic Electrochemical Impedance. *Journal of the Electrochemical Society*, **2020**, 167, 020502	3.9	6
227	Two-Phase Reaction Mechanism for Fluorination and Defluorination in Fluoride-Shuttle Batteries: A First-Principles Study. *ACS Applied Materials & Interfaces*, **2020**, 12, 428-435	9.5	11
226	Sequential delithiation behavior and structural rearrangement of a nanoscale composite-structured LiNiMnO during charge-discharge cycles. *Scientific Reports*, **2020**, 10, 10048	4.9	10
225	Effects of Film Formation on the Electrodeposition of Lithium. *ChemElectroChem*, **2020**, 7, 4336-4342	4.3	6
224	Mechanism of Structural Change and the Trigger of Electrochemical Degradation of Li-Rich Layered Oxide Cathodes during Charge□Discharge Cycles. *ACS Applied Energy Materials*, **2019**, 2, 8118-8124	6.1	4
223	Structural characterization of an amorphous VS and its lithiation/delithiation behavior studied by solid-state NMR spectroscopy.. *RSC Advances*, **2019**, 9, 23979-23985	3.7	10
222	Improvement of Cycle Capability of Fe-Substituted Li2S-Based Positive Electrode Materials by Doping with Lithium Iodide. *Journal of the Electrochemical Society*, **2019**, 166, A5231-A5236	3.9	6
221	Li2NbO3□i2MnO3 Pseudo-Binary Compounds Crystallizing into Distorted Rocksalt Structures. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1900003	1.3	
220	Liquid-phase synthesis of Ni nanowire/cellulose hybrid structure. *Japanese Journal of Applied Physics*, **2018**, 57, 02CA09	1.4	2
219	Structure analyses of Fe-substituted Li2S-based positive electrode materials for Li-S batteries. *Solid State Ionics*, **2018**, 320, 387-391	3.3	9
218	Structural and dynamic behavior of lithium iron polysulfide Li 8 FeS 5 during charge□discharge cycling. *Journal of Power Sources*, **2018**, 398, 67-74	8.9	3
217	Strain-Induced Stabilization of Charged State in Li-Rich Layered Transition-Metal Oxide for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2018**, 122, 19298-19308	3.8	12
216	Site-Selective Analysis of Nickel-Substituted Li-Rich Layered Material: Migration and Role of Transition Metal at Charging and Discharging. *Journal of Physical Chemistry C*, **2018**, 122, 20099-20107	3.8	6

215	Facile Synthesis of Ni Nanowire Composite via Liquid Phase Reduction: Effect of a Magnetic Field. *Materials Science Forum*, **2018**, 936, 20-24	0.4	
214	A Reversible Rocksalt to Amorphous Phase Transition Involving Anion Redox. *Scientific Reports*, **2018**, 8, 15086	4.9	15
213	Analysis of the discharge/charge mechanism in VS4 positive electrode material. *Solid State Ionics*, **2018**, 323, 32-36	3.3	12
212	Constructing metal-anode rechargeable batteries utilizing concomitant intercalation of Li⁺/Mg dual cations into Mo6S8. *Journal of Materials Chemistry A*, **2017**, 5, 3534-3540	13	16
211	Hidden Two-Step Phase Transition and Competing Reaction Pathways in LiFePO4. *Chemistry of Materials*, **2017**, 29, 2855-2863	9.6	21
210	Site- and phase-selective x-ray absorption spectroscopy based on phase-retrieval calculation. *Journal of Physics Condensed Matter*, **2017**, 29, 113002	1.8	3
209	Direct observation of layered-to-spinel phase transformation in Li2MnO3 and the spinel structure stabilised after the activation process. *Journal of Materials Chemistry A*, **2017**, 5, 6695-6707	13	50
208	Amorphous Metal Polysulfides: Electrode Materials with Unique Insertion/Extraction Reactions. *Journal of the American Chemical Society*, **2017**, 139, 8796-8799	16.4	50
207	Mechanical synthesis and structural properties of the fast fluoride-ion conductor PbSnF4. *Journal of Solid State Chemistry*, **2017**, 253, 287-293	3.3	17
206	Factors determining the packing-limitation of active materials in the composite electrode of lithium-ion batteries. *Journal of Power Sources*, **2016**, 301, 11-17	8.9	52
205	Direct Synthesis of Carbon–Molybdenum Carbide Nanosheet Composites via a Pseudotopotactic Solid-State Reaction. *Chemistry of Materials*, **2016**, 28, 8899-8904	9.6	6
204	Quantitative Analysis of Transition-Metal Migration Induced Electrochemically in Lithium-Rich Layered Oxide Cathode and Its Contribution to Properties at High and Low Temperatures. *Journal of Physical Chemistry C*, **2016**, 120, 27109-27116	3.8	12
203	Framework Structures for Mg Battery Cathodes. *Materials Science Forum*, **2016**, 879, 2150-2152	0.4	
202	Contactless analysis of electric dipoles at high-k/SiO2 interfaces by surface-charge-switched electron spectroscopy. *Applied Physics Letters*, **2016**, 108, 211604	3.4	2
201	Initial Atomic Motion Immediately Following Femtosecond-Laser Excitation in Phase-Change Materials. *Physical Review Letters*, **2016**, 117, 135501	7.4	32
200	Ligancy-Driven Controlling of Covalency and Metallicity in a Ruthenium Two-Dimensional System. *Chemistry of Materials*, **2016**, 28, 5784-5790	9.6	3
199	Roles of transition metals interchanging with lithium in electrode materials. *Physical Chemistry Chemical Physics*, **2015**, 17, 14064-70	3.6	24
198	Toward “rocking-chair type” Mg–Li dual-salt batteries. *Journal of Materials Chemistry A*, **2015**, 3, 10188-10194	13	64

197	EQCM Analysis of Redox Behavior of CuFe Prussian Blue Analog in Mg Battery Electrolytes. *Journal of the Electrochemical Society*, **2015**, 162, A2356-A2361	3.9	39
196	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
195	Structural modification by adding Li cations into Mg/Cs-TFSA molten salt facilitating Mg electrodeposition. *RSC Advances*, **2015**, 5, 3063-3069	3.7	3
194	High-capacity Lithium-ion Storage System Using Unilamellar Crystallites of Exfoliated MoO2 Nanosheets. *Chemistry Letters*, **2015**, 44, 1595-1597	1.7	5
193	Electronic, Structural, and Electrochemical Modulation of Electrostatic Self-Assembled 1T-MoS2 Nanosheets via Topotactic Structural Conversion. *E-Journal of Surface Science and Nanotechnology*, **2015**, 13, 1-7	0.7	
192	Intercalation and Push-Out Process with Spinel-to-Rocksalt Transition on Mg Insertion into Spinel Oxides in Magnesium Batteries. *Advanced Science*, **2015**, 2, 1500072	13.6	117
191	A concept of dual-salt polyvalent-metal storage battery. *Journal of Materials Chemistry A*, **2014**, 2, 1144-1149	13	116
190	Kinetically asymmetric charge and discharge behavior of LiNi0.5Mn1.5O4 at low temperature observed by in situ X-ray diffraction. *Journal of Materials Chemistry A*, **2014**, 2, 15414-15419	13	8
189	Surface-layer formation by reductive decomposition of LiPF6 at relatively high potentials on negative electrodes in lithium ion batteries and its suppression. *Journal of Power Sources*, **2014**, 271, 431-436	8.9	32
188	A new aspect of Chevrel compounds as positive electrodes for magnesium batteries. *Journal of Materials Chemistry A*, **2014**, 2, 14858-14866	13	24
187	Spectroscopic X-ray Diffraction for Microfocus Inspection of Li-Ion Batteries. *Journal of Physical Chemistry C*, **2014**, 118, 20750-20755	3.8	27
186	Iron Alloying Effect on Formation of Cobalt Nanoparticles and Nanowires via Electroless Deposition under a Magnetic Field. *Journal of the Electrochemical Society*, **2014**, 161, D59-D66	3.9	7
185	Time-resolved coherent diffraction of ultrafast structural dynamics in a single nanowire. *Nano Letters*, **2014**, 14, 2413-8	11.5	16
184	Three-dimensional nanoelectrode by metal nanowire nonwoven clothes. *Nano Letters*, **2014**, 14, 1932-7	11.5	43
183	EQCM analysis of redox behavior of Prussian blue in a lithium battery electrolyte. *Journal of Materials Chemistry A*, **2014**, 2, 8041	13	28
182	Revisit to diffraction anomalous fine structure. *Journal of Synchrotron Radiation*, **2014**, 21, 1247-51	2.4	13
181	Electroless Deposition of Nickel Nanoparticles at Room Temperature. *Advanced Materials Research*, **2014**, 974, 107-111	0.5	3
180	Electrochemical Behavior of Magnesium Alloys in Alkali Metal-TFSA Ionic Liquid for Magnesium-Battery Negative Electrode. *Journal of the Electrochemical Society*, **2014**, 161, A943-A947	3.9	20

179	Research Update: Retardation and acceleration of phase separation evaluated from observation of imbalance between structure and valence in LiFePO4/FePO4 electrode. *APL Materials*, **2014**, 2, 070701	5.7	6
178	Growth of Cobalt Nanowires under External Magnetic Field. *Advanced Materials Research*, **2014**, 911, 136-140	0.5	2
177	Formation of Cobalt Nanoparticles from Co(OH)2 Suspension. *Advanced Materials Research*, **2014**, 974, 50-54	0.5	
176	Synthesis of Silica-Coated Copper Nanoparticles and its Application to Red Color Glaze. *Advanced Materials Research*, **2014**, 970, 288-292	0.5	2
175	Effects of water content on magnesium deposition from a Grignard reagent-based tetrahydrofuran electrolyte. *Research on Chemical Intermediates*, **2014**, 40, 3-9	2.8	18
174	What determines the critical size for phase separation in LiFePO4 in lithium ion batteries?. *Journal of Materials Chemistry A*, **2013**, 1, 14532	13	17
173	Phase Transition Analysis between LiFePO4and FePO4by In-Situ Time-Resolved X-ray Absorption and X-ray Diffraction. *Journal of the Electrochemical Society*, **2013**, 160, A3061-A3065	3.9	44
172	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
171	Formation of self-repairing anodized film on ACM522 magnesium alloy by plasma electrolytic oxidation. *Corrosion Science*, **2013**, 73, 188-195	6.8	47
170	Direct observation of a metastable crystal phase of Li(x)FePO4 under electrochemical phase transition. *Journal of the American Chemical Society*, **2013**, 135, 5497-500	16.4	159
169	Transient Phase Change in Two Phase Reaction between LiFePO4 and FePO4 under Battery Operation. *Chemistry of Materials*, **2013**, 25, 1032-1039	9.6	103
168	Electrochemical Stability of Magnesium Battery Current Collectors in a Grignard Reagent-Based Electrolyte. *Journal of the Electrochemical Society*, **2013**, 160, C83-C88	3.9	90
167	Synthesis of Binary Magnesium□ransition Metal Oxides via Inverse Coprecipitation. *Japanese Journal of Applied Physics*, **2013**, 52, 025501	1.4	27
166	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	10
165	Surface modification of ACM522 magnesium alloy by plasma electrolytic oxidation in phosphate electrolyte. *Corrosion Science*, **2012**, 57, 74-80	6.8	65
164	Formation of Nickel Nanowires by Electroless Deposition. *ECS Transactions*, **2012**, 41, 1-7	1	1
163	Effects of oxygen content and heating rate on phase transition behavior in Bi2(V0.95Ti0.05)O5.475□. *Journal of Alloys and Compounds*, **2011**, 509, 5833-5838	5.7	4
162	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	3.4	11

161	Abnormal Behavior of Hydrogen Response and Hydrogen Induced Linear Expansion Coefficient of Pd-Cu-Si Metallic Glassy Alloys for Thin Film Hydrogen Sensor. *Materials Transactions*, **2011**, 52, 1148-1155	1.3	6
160	Structural Analysis of Pd-Cu-Si Metallic Glassy Alloy Thin Films with Varying Glass Transition Temperature. *Materials Transactions*, **2011**, 52, 1349-1355	1.3	10
159	Effect of Composition and Microstructure of Pd-Cu-Si Metallic Glassy Alloy Thin Films on Hydrogen Absorbing Properties. *Materials Transactions*, **2011**, 52, 1807-1813	1.3	9
158	Thickness estimation of interface films formed on Li1−xCoO2 electrodes by hard X-ray photoelectron spectroscopy. *Journal of Power Sources*, **2011**, 196, 10679-10685	8.9	26
157	In situ two-dimensional imaging quick-scanning XAFS with pixel array detector. *Journal of Synchrotron Radiation*, **2011**, 18, 919-22	2.4	18
156	Formation of Nickel Nanowires via Electroless Deposition Under a Magnetic Field. *Journal of the Electrochemical Society*, **2011**, 158, E79	3.9	24
155	Formation of Columnar-Shaped Structure of Fe in Fe□Cr□Sn Thin Films and Its Shape-Magnetic Anisotropy. *Japanese Journal of Applied Physics*, **2011**, 50, 013004	1.4	
154	Fabrication of Cobalt Nanowires by Electroless Deposition under External Magnetic Field. *Journal of the Electrochemical Society*, **2011**, 158, D210	3.9	23
153	Electroless Deposition of Cobalt Nanowires in an Aqueous Solution under External Magnetic Field. *Electrochemical and Solid-State Letters*, **2011**, 14, D68		15
152	Nickel Alloying Effect on Formation of Cobalt Nanoparticles and Nanowires via Electroless Deposition under a Magnetic Field. *Journal of the Electrochemical Society*, **2011**, 159, E37-E44	3.9	19
151	Influence of Mechanical Strain on the Electrochemical Lithiation of Aluminum-Based Electrode Materials. *Journal of the Electrochemical Society*, **2011**, 159, A14-A17	3.9	20
150	Change in local environment upon quasicrystallization of Zr-Cu glassy alloys by addition of Pd and Pt. *Journal of Physics Condensed Matter*, **2011**, 23, 175303	1.8	3
149	Electrochemical Analysis in Fabrication of Co-Ni Alloy Nanoparticles in Nonaqueous Solution. *Journal of MMIJ*, **2011**, 127, 103-107	0.3	1
148	Electrochemical QCM Study of the Synthesis Process of Cobalt Nanoparticles via Electroless Deposition. *Electrochemical and Solid-State Letters*, **2010**, 13, E1		13
147	Electrochemical Study on the Synthesis Process of Co□Ni Alloy Nanoparticles via Electroless Deposition. *Journal of the Electrochemical Society*, **2010**, 157, E92	3.9	17
146	An experimental procedure for precise evaluation of electron density distribution of a nanostructured material by coherent x-ray diffraction microscopy. *Review of Scientific Instruments*, **2010**, 81, 033707	1.7	1
145	High-resolution projection image reconstruction of thick objects by hard x-ray diffraction microscopy. *Physical Review B*, **2010**, 82,	3.3	31
144	Room-Temperature Synthesis of Cobalt Nanoparticles by Electroless Deposition in Aqueous Solution. *Electrochemical and Solid-State Letters*, **2010**, 13, D4		17

143	Three-dimensional electron density mapping of shape-controlled nanoparticle by focused hard X-ray diffraction microscopy. *Nano Letters*, **2010**, 10, 1922-6	11.5	57
142	Room-Temperature Synthesis of Cobalt Nanoparticles in Aqueous Solution. *ECS Transactions*, **2010**, 28, 29-34	1	5
141	Precipitation of the ZrCu B2 phase in Zr50Cu50−xAlx (x = 0, 4, 6) metallic glasses by rapidly heating and cooling. *Journal of Materials Research*, **2010**, 25, 793-800	2.5	14
140	Phase Stability of Bi2(V1−xMEx)O5.5+δ (ME=Li and Ag, x=0.05 and 0.1). *Materials Transactions*, **2010**, 51, 561-566	1.3	3
139	Effects of Transformation Strain Due to Lithiation/delithiation in Sn Electrode of Li-ion Batteries. *Electrochemistry*, **2010**, 78, 460-462	1.2	1
138	??????????????????????????. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2010**, 60, 548-551	0.3	
137	Femtosecond Snapshot Holography with Extended Reference Using Extreme Ultraviolet Free-Electron Laser. *Applied Physics Express*, **2010**, 3, 102701	2.4	9
136	Phase classification, electrical conductivity, and thermal stability of Bi2(V0.95TM0.05)O5.5+□ (TM: transition metal). *Solid State Ionics*, **2010**, 181, 1279-1286	3.3	10
135	High oxide-ion conductivity of monovalent-metal-doped bismuth vanadate at intermediate temperatures. *Solid State Ionics*, **2010**, 181, 719-723	3.3	24
134	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	
133	Electroless Deposition of Ferromagnetic Cobalt Nanoparticles in Propylene Glycol. *Journal of the Electrochemical Society*, **2009**, 156, E139	3.9	18
132	Oxidation-State Control of Nanoparticles Synthesized via Chemical Reduction Using Potential Diagrams. *Journal of the Electrochemical Society*, **2009**, 156, D321	3.9	21
131	Observation of electromigration in a Cu thin line by in situ coherent x-ray diffraction microscopy. *Journal of Applied Physics*, **2009**, 105, 124911	2.5	3
130	Allotropic phase transformation of pure zirconium by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 523, 277-281	5.3	95
129	Processing Pure Ti by High-Pressure Torsion in Wide Ranges of Pressures and Strain. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2009**, 40, 2079-2086	2.3	121
128	Crystallization behaviours around the glass transition temperature in an amorphous Fe□NbB alloy. *Intermetallics*, **2009**, 17, 796-801	3.5	9
127	High-resolution diffraction microscopy using the plane-wave field of a nearly diffraction limited focused x-ray beam. *Physical Review B*, **2009**, 80,	3.3	56
126	Development of incident x-ray flux monitor for coherent x-ray diffraction microscopy. *Journal of Physics: Conference Series*, **2009**, 186, 012060	0.3	

125	Crystallization Behavior and Structural Stability of Zr50Cu40Al10 Bulk Metallic Glass. *Materials Transactions*, **2009**, 50, 1340-1345	1.3	17
124	Nanostructure analysis by coherent hard X-ray diffraction. *Journal of Physics: Conference Series*, **2009**, 186, 012056	0.3	
123	Crystallization of Zr50Cu40Al10 Metallic Glass by Rapid Heating Process. *Zairyo/Journal of the Society of Materials Science, Japan*, **2009**, 58, 205-208	0.1	2
122	Materials Science in Metallic Glasses. *Zairyo/Journal of the Society of Materials Science, Japan*, **2009**, 58, 187-192	0.1	1
121	Formation of Nickel Nanoparticles by Electroless Deposition Using NiO and Ni(OH)[sub 2] Suspensions. *Journal of the Electrochemical Society*, **2008**, 155, D583	3.9	15
120	Formation of Cu Nanoparticles by Electroless Deposition Using Aqueous CuO Suspension. *Journal of the Electrochemical Society*, **2008**, 155, D474	3.9	29
119	Formation of Tin Nanoparticles Embedded in Poly(L-Lactic Acid) Fiber by Electrospinning. *Electrochemical and Solid-State Letters*, **2008**, 11, E25		7
118	Element-specific hard x-ray diffraction microscopy. *Physical Review B*, **2008**, 78,	3.3	27
117	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	
116	Synthesis of Spinel-Type Magnesium Cobalt Oxide and Its Electrical Conductivity. *Materials Transactions*, **2008**, 49, 824-828	1.3	25
115	Electrochemical Iron-Chromium Alloying of Carbon Steel Surface Using Alternating Pulsed Electrolysis. *Materials Transactions*, **2008**, 49, 1346-1354	1.3	
114	In situ structural analysis of corrosion products formed on the surfaces of iron-based alloys. *Surface and Interface Analysis*, **2008**, 40, 307-310	1.5	5
113	Coherent x-ray diffraction measurements of Cu thin lines. *Surface and Interface Analysis*, **2008**, 40, 1046-1049	1.5	1
112	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	5.3	11
111	Correlation between local structure and stability of supercooled liquid state in Zr-based metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 90-94	5.3	13
110	A Pseudoternary Phase Diagram of the BaO-ZrO2-ScO1.5 System at 1600 ℃ and Solubility of Scandia into Barium Zirconate. *Journal of Phase Equilibria and Diffusion*, **2007**, 28, 517-522	1	10
109	Approach for three-dimensional observation of mesoscopic precipitates in alloys by coherent x-ray diffraction microscopy. *Applied Physics Letters*, **2007**, 90, 184105	3.4	23
108	Application of x-ray excited optical luminescence to x-ray standing wave method and atomic resolution holography. *Physical Review B*, **2007**, 76,	3.3	12

107	Ultrasonic Spectroscopy and X-Ray Diffraction Study for ARB Aluminum. *Materials Science Forum*, **2007**, 561-565, 937-940	0.4	
106	Structural Stability and Elasticity in Zr-Based Bulk Metallic Glasses. *Materials Science Forum*, **2007**, 561-565, 1391-1395	0.4	2
105	Elastic Properties of Cu-Based Bulk Metallic Glass around Glass Transition Temperature. *Materials Science Forum*, **2007**, 539-543, 1932-1936	0.4	1
104	Local Structure around Pd Atoms in Pd42.5Ni7.5Cu30P20 Excellent Glass-Former Studied by Anomalous X-ray Scattering. *Materials Transactions*, **2007**, 48, 2358-2361	1.3	4
103	Local Structure Study in Zr-Based Metallic Glasses. *Materials Transactions*, **2007**, 48, 1703-1707	1.3	7
102	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
101	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	3.9	10
100	Effect of Al on the local structure and stability of Zr-based metallic glasses. *Journal of Alloys and Compounds*, **2007**, 434-435, 135-137	5.7	4
99	Crystallization accelerated by ultrasound in Pd-based metallic glasses. *Journal of Alloys and Compounds*, **2007**, 434-435, 194-195	5.7	7
98	Three-dimensional Imaging of Nanoscale Internal Structure by Coherent X-ray Diffraction Microscope. *Materia Japan*, **2007**, 46, 827-827	0.1	
97	Mechanism of nanocrystalline microstructure formation in amorphous Fe□Nb□B alloys. *Physical Review B*, **2006**, 74,	3.3	32
96	Holographic Analysis of Incident Electron Beam Angular Distribution of Characteristic X-rays: Internal Detector Electron Holography. *Journal of the Physical Society of Japan*, **2006**, 75, 053601	1.5	8
95	Measurment of Incident Beam Angular Dependence of X-Ray Luminescence Intensity and Possibility of New Atom Resolved Holography. *Bunseki Kagaku*, **2006**, 55, 441-446	0.2	1
94	Atomizing Effect on Sn-Zn Based Solder Alloy. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2006**, 70, 162-165	0.4	1
93	Three-Dimensional Atomic Image around Mn Atoms in Diluted Magnetic Semiconductor Zn0.4Mn0.6Te Obtained by X-Ray Fluorescence Holography. *Japanese Journal of Applied Physics*, **2005**, 44, 1011-1012	1.4	10
92	Control of compound forming reaction at the interface between SnZn solder and Cu substrate. *Journal of Alloys and Compounds*, **2005**, 392, 200-205	5.7	47
91	Elemental identification of a three-dimensional environment by complex x-ray holography. *Physical Review B*, **2005**, 71,	3.3	15
90	Inhibition of Conversion Process from Fe(OH)3 to .BETA.-FeOOH and .ALPHA.-Fe2O3 by the Addition of Silicate Ions. *ISIJ International*, **2005**, 45, 77-81	1.7	23

89	Effect of Al on Local Structures of Zr–Ni and Zr–Cu Metallic Glasses. *Materials Transactions*, **2005**, 46, 2893-2897	1.3	42
88	Local Structure and Glass Transition in Zr-Based Binary Amorphous Alloys. *Materials Transactions*, **2005**, 46, 2282-2286	1.3	23
87	In-situ X-ray Diffraction of Corrosion Products Formed on Iron Surfaces. *Materials Transactions*, **2005**, 46, 637-642	1.3	34
86	Effect of Silicate Ions on Conversion of Ferric Hydroxide to β-FeOOH and α-Fe2O3. *Materials Transactions*, **2005**, 46, 155-158	1.3	19
85	Local Atomic Structures of Amorphous Fe80B20 and Fe70Nb10B20 Alloys Studied by Electron Diffraction. *Materials Transactions*, **2005**, 46, 2781-2784	1.3	17
84	Incident Photon-Energy Dependence of the Electronic Density of States in Pd42.5Ni7.5Cu30P20 Metallic Glass. *Materials Transactions*, **2005**, 46, 2803-2806	1.3	9
83	Structure of Bis(iodozincio)methane in THF Solution. *Chemistry Letters*, **2005**, 34, 952-953	1.7	13
82	Structure and reactivity of bis(iodozincio)methane solution. *Journal of Organometallic Chemistry*, **2005**, 690, 5546-5551	2.3	13
81	X-ray fluorescence holography of 0.078wt% copper in silicon steel. *Nuclear Instruments & Methods in Physics Research B*, **2005**, 238, 192-195	1.2	9
80	Preferential formation of anatase in laser-ablated titanium dioxide films. *Acta Materialia*, **2005**, 53, 323-329	8.4	59
79	Excess free volume in metallic glasses measured by X-ray diffraction. *Acta Materialia*, **2005**, 53, 1611-1619	8.4	313
78	Hydrogen permeation and structural features of melt-spun NiNbZr amorphous alloys. *Acta Materialia*, **2005**, 53, 3703-3711	8.4	124
77	On the preferential formation of anatase in amorphous titanium oxide film. *Scripta Materialia*, **2005**, 53, 1019-1023	5.6	16
76	Atomic imaging in EBCO superconductor films by an X-ray holography system using a toroidally bent graphite analyzer. *Journal of Synchrotron Radiation*, **2005**, 12, 530-3	2.4	11
75	Anomalous Crystallization Induced by Ultrasound in Pd42.5Ni7.5Cu30P20 Metallic Glass. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 547-550	0.2	1
74	Structure and Hydrogen Permeation of Ni-Nb-Zr Amorphous Alloy. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 551-554	0.2	8
73	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	
72	Reconstruction of atomic images from multiple-energy x-ray holograms of FePt films by the scattering pattern matrix method. *Applied Physics Letters*, **2005**, 87, 234104	3.4	8

71	Glass-liquid transition in a less-stable metallic glass. *Physical Review B*, **2005**, 72,	3.3	45
70	In situ detection method for obtaining permeability of Fe-based amorphous alloys: ac resistance measurement for Fe84Nb7B9. *Applied Physics Letters*, **2005**, 86, 032503	3.4	1
69	Suppression of the Conversion Process of Fe(OH)3 to □FeOOH and □Fe2O3 by Silicate Ions. *High Temperature Materials and Processes*, **2005**, 24, 275-288	0.9	3
68	The crystal structure and electronic properties of a new metastable non-stoichiometric BaAl4-type compound crystallized from amorphous La6Ni34Ge60alloy. *Journal of Physics Condensed Matter*, **2004**, 16, 7917-7930	1.8	5
67	Local Structure Change Around Ni Atoms in MgNi Alloys during Mechanical Alloying Process. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 20-21, 635-640	0.2	1
66	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. *Journal of Crystal Growth*, **2004**, 262, 196-201	1.6	20
65	Crystallisation behaviour of Cu60Zr30Ti10 bulk glassy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 744-748	5.3	17
64	EXAFS and SAXS analysis for nano-structural origin of high strength for supersaturated Al100□e (x = 1, 2.5) alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 1224-1227	5.3	5
63	Ultrasound-induced crystallization around the glass transition temperature for Pd40Ni40P20 metallic glass. *Acta Materialia*, **2004**, 52, 423-429	8.4	55
62	X-ray absorption fine-structure study on the fine structure of lutetium segregated at grain boundaries in fine-grained polycrystalline alumina. *Philosophical Magazine*, **2004**, 84, 865-876	1.6	17
61	Intermediate-range order in glassy GexSe1□ around the stiffness transition composition. *Journal of Non-Crystalline Solids*, **2004**, 337, 54-61	3.9	23
60	X-ray Fluorescence Holography Study on Si1−xGex Single Crystal. *Materials Transactions*, **2004**, 45, 1994-1997	1.3	11
59	Ultrasound-Induced Structural Anomaly of Supercooled Liquid in Some Bulk Metallic Glasses. *Materials Transactions*, **2004**, 45, 1189-1193	1.3	6
58	Crystallization Behavior of αFe in Fe84Nb7B9 and Fe85Nb6B9 Amorphous Alloys. *Materials Transactions*, **2004**, 45, 1199-1203	1.3	5
57	Electronic States of Sulfur Doped TiO2 by First Principles Calculations. *Materials Transactions*, **2004**, 45, 1987-1990	1.3	35
56	Characterization of the Ni-Zn/TiO2 Nanocomposite Synthesized by the Liquid-Phase Selective-Deposition Method. *Materials Transactions*, **2004**, 45, 2035-2038	1.3	13
55	Study on Fabrication of Titanium Oxide Films by Oxygen Pressure Controlled Pulsed Laser Deposition. *Materials Transactions*, **2004**, 45, 2068-2072	1.3	2
54	Nanoquasicrystallization in Metallic Glasses. *Materials Transactions*, **2003**, 44, 1971-1977	1.3	39

53	Partial Sulfurization of Laser-ablated Titanium Oxide Film for the Improvement in Photocatalytic Property. *Materials Transactions*, **2003**, 44, 685-687	1.3	3
52	Peculiar structure of X-ray standing wave lines of Si:As. *Nuclear Instruments & Methods in Physics Research B*, **2003**, 199, 382-385	1.2	
51	Development of laboratory x-ray fluorescence holography equipment. *Journal of Materials Research*, **2003**, 18, 1471-1473	2.5	9
50	Stability and Icosahedral Transformation of Supercooled Liquid in Metal-Metal type Bulk Glassy Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 805, 188		
49	Stability and Icosahedral Transformation of Supercooled Liquid in Metal-Metal type Bulk Glassy Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 806, 161		
48	Stability of glassy state in Zr-based glassy alloys correlated with nano icosahedral phase formation. *Annales De Chimie: Science Des Materiaux*, **2002**, 27, 77-89	2.1	56
47	Development of in-house fast X-ray diffraction apparatus and its application to the supercooled liquid Pd40Ni10Cu30P20 alloy. *Science and Technology of Advanced Materials*, **2002**, 3, 69-73	7.1	3
46	Feasibility Study of Local Structure Analysis of Ultrathin Films by X-ray Fluorescence Holography. *Materials Transactions*, **2002**, 43, 1475-1479	1.3	2
45	Local Atomic Structure and Electronic State of ZnS Films Synthesized by Using CBD Technique. *Materials Transactions*, **2002**, 43, 1512-1516	1.3	3
44	Fullerene and Sulfur Compounds. *Materials Transactions*, **2002**, 43, 1530-1532	1.3	7
43	Preparation of a TiO2 Film Coated Si Device for Photo-Decomposition of Water by CVD Method Using Ti(OPri)4. *Materials Transactions*, **2002**, 43, 1533-1536	1.3	7
42	Determination of Atomic Sites of Nb Dissolved in Metastable Fe23B6 Phase. *Materials Transactions*, **2002**, 43, 1918-1920	1.3	16
41	Local Atomic Structure and Catalytic Activities in Electrodeposited Mo-Ni Alloys. *Materials Transactions*, **2002**, 43, 1525-1529	1.3	15
40	Evidence for the Diffusion of Au Atoms into the Te UPD Layer Formed on a Au(111) Substrate. *Journal of the Electrochemical Society*, **2002**, 149, C83	3.9	5
39	Structural study in amorphous Zr□oble metal (Pd, Pt and Au) alloys. *Journal of Non-Crystalline Solids*, **2002**, 312-314, 517-521	3.9	24
38	Partial structure analysis of amorphous Ge15Te80M5 (M=Cu, Ag and In). *Journal of Non-Crystalline Solids*, **2002**, 312-314, 585-588	3.9	27
37	The Additional Effect of Zn to Ni Nanoparticles and Their Catalytic Activity.. *Shigen-to-Sozai*, **2002**, 118, 211-216		5
36	Ingredients of the Soup in the Chemist's Cauldron: Structural Analysis of Organometallics in the Solution by X-ray.. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2002**, 60, 383-388	0.2	0

35	Structural Study of Amorphous FE70M10B20 (M=CR, W, NB, ZR and HF) Alloys by X-ray Diffraction. *Materials Transactions*, **2001**, 42, 1530-1534	1.3	19
34	??X???????????????????. *Materia Japan*, **2001**, 40, 801-807	0.1	2
33	In-house Anomalous X-ray Scattering Analysis for the Amorphous Zr60Al15Ni25 Alloy. *Materials Transactions*, **2001**, 42, 1977-1980	1.3	1
32	Local Atomic Structures in Amorphous and Quasicrystalline Zr70Ni10Pt20 and Zr80Pt20 Alloys by the Anomalous X-ray Scattering Method. *Materials Research Society Symposia Proceedings*, **2000**, 644, 111		2
31	Determination of Mo(VI) Species and Composition in Ni-Mo Alloy Plating Baths by Raman Spectra Factor Analysis. *Journal of the Electrochemical Society*, **2000**, 147, 2210	3.9	31
30	Retraction: Anomalous X-ray Scattering Study of Amorphous Fe70M10B20 (M = Zr, Nb, and Cr) Alloys. *Materials Transactions, JIM*, **2000**, 41, 1379-1384		14
29	Crystallization Behavior of Amorphous Fe90−XNb10BX (X=10 and 30) Alloys. *Materials Transactions, JIM*, **2000**, 41, 1526-1529		98
28	Application of Energy Dispersive Grazing Incidence X-ray Reflectometry Method to Structural Analysis of Liquid/Liquid and Liquid/Solid Interfaces. *Materials Transactions, JIM*, **2000**, 41, 1651-1656		4
27	Structural Study of Poly-Molybdate Ions in Acid Mo□Ni Aqueuous Solutions. *Japanese Journal of Applied Physics*, **1999**, 38, 576	1.4	5
26	Structural Study of Thin Amorphous SiO2 and Si3N4 Films by the Grazing Incidence X-Ray Scattering (GIXS) Method. *High Temperature Materials and Processes*, **1999**, 18, 99-107	0.9	3
25	Structural Study of Amorphous La(Co1−xTMx)13 Alloys by X-ray Diffraction. *Materials Transactions, JIM*, **1999**, 40, 7-12		1
24	Toroidal Bend Graphite X-ray Monochomator.. *Materia Japan*, **1999**, 38, 43-45	0.1	4
23	Determination of Chemical Species and Their Composition in Ni-Mo Alloy Plating Baths by Factor Analysis of Visible Absorption Spectra. *Journal of the Electrochemical Society*, **1998**, 145, 523-528	3.9	18
22	Structural Studies of Aqueous Solutions by the Anomalous X-ray Scattering Method. *High Temperature Materials and Processes*, **1998**, 17, 133-143	0.9	3
21	Structural Study of Poly-Molybdate Ions in Acid Mo-Ni Aqueous Solutions. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1997**, 52, 855-862	1.4	7
20	Local Structural Analyses of Non-crystalline Materials by the Anomalous X-ray Scattering(AXS) Method.. *Nihon Kessho Gakkaishi*, **1997**, 39, 309-314	0	
19	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.. *Nihon Kessho Gakkaishi*, **1997**, 39, 20-25	0	1
18	Anomalous Grazing X-ray Reflectometry for Determining the Number Density of Atoms in the Near-Surface Region. *Materials Transactions, JIM*, **1996**, 37, 39-44		13

17	Development of New In-House Grazing X-ray Reflection System for Analyzing Liquid Surface and Interface. *Materials Transactions, JIM*, **1996**, 37, 1409-1412		4
16	Anomalous X-ray Scattering Study of Local Structures in the Superionic Conducting Glass (CuI)0.3(Cu2O)0.35(MoO3)0.35. *Materials Transactions, JIM*, **1995**, 36, 1434-1439		10
15	Characterization of Oxide Film Grown on Stainless Steel by a New In-House Grazing Incidence X-ray Scattering (GIXS) Apparatus. *Materials Transactions, JIM*, **1995**, 36, 1-5		18
14	Local Atomic Structures of Zr70Ga10Ni20 Amorphous Alloys by the Anomalous X-ray Scattering Method. *Materials Transactions, JIM*, **1995**, 36, 1093-1096		3
13	Magnetic properties of Fe-based icosahedral cluster amorphous alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1994**, 181-182, 860-863	5.3	5
12	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
11	The Structure of Amorphous Platinum Disulfide as Studied by Anomalous X-ray Scattering. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1994**, 49, 1031-1036	1.4	1
10	Diffuse Scattering of Superionic Phase of Cu2Se. *Journal of the Physical Society of Japan*, **1993**, 62, 3513-3518	1.5	4
9	Characterization of the environmental structure of disordered materials using anomalous X-ray scattering **1993**, 14-21		
8	Surface Structure of Nanometer-Sized Zinc Ferrite Particles by the Anomalous X-ray Scattering (AXS) Method. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1992**, 47, 1023-1028	1.4	4
7	Atomic Structure Analysis of Amorphous Tb-Fe1-xCoxFilm Systems. *Japanese Journal of Applied Physics*, **1991**, 30, 764-767	1.4	7
6	Structural study of liquid Na?Tl alloys by neutron diffraction. *Journal of Non-Crystalline Solids*, **1990**, 117-118, 68-71	3.9	9
5	Methods for the Quantitative Structural Analysis of Amorphous Ge Thin Film by X-rays. *Transactions of the Japan Institute of Metals*, **1988**, 29, 1-7		7
4	A New Quantitative Anomalous X-ray Scattering Method for the Structural Analysis of Amorphous Thin Films. *Transactions of the Japan Institute of Metals*, **1988**, 29, 697-704		13
3	Structural Study of Liquid Na-Pb Alloys by Neutron Diffraction. *Journal of the Physical Society of Japan*, **1987**, 56, 3934-3940	1.5	19
2	Viscosity of glassy Na2O- B2O2 SiO2 system. *Journal of Non-Crystalline Solids*, **1987**, 95-96, 1031-1038	3.9	14
1	The Structure of Liquid Bi-Zn Alloys with Miscibility Gaps. *Journal of the Physical Society of Japan*, **1986**, 55, 4296-4301	1.5	6