Tetsu Ichitsubo

List of Publications by Year
in descending order

178 papers	4,604 citations	101543 36 h-index	128289 60 g-index
182 all docs	182 docs citations	182 times ranked	4084 citing authors

#	Article	IF	Citations
1	Microstructure of Fragile Metallic Glasses Inferred from Ultrasound-Accelerated Crystallization in Pd-Based Metallic Glasses. Physical Review Letters, 2005, 95, 245501.	7.8	309
2	Bulk-Nanoporous-Silicon Negative Electrode with Extremely High Cyclability for Lithium-Ion Batteries Prepared Using a Top-Down Process. Nano Letters, 2014, 14, 4505-4510.	9.1	208
3	Intercalation and Pushâ€Out Process with Spinelâ€toâ€Rocksalt Transition on Mg Insertion into Spinel Oxides in Magnesium Batteries. Advanced Science, 2015, 2, 1500072.	11.2	153
4	Potential positive electrodes for high-voltage magnesium-ion batteries. Journal of Materials Chemistry, 2011, 21, 11764.	6.7	138
5	A concept of dual-salt polyvalent-metal storage battery. Journal of Materials Chemistry A, 2014, 2, 1144-1149.	10.3	133
6	Transverse Acoustic Excitations in Liquid Ga. Physical Review Letters, 2009, 102, 105502.	7.8	131
7	Circumventing huge volume strain in alloy anodes of lithium batteries. Nature Communications, 2020, 11, 1584.	12.8	130
8	Single-crystal elastic constants of gamma-TiAl. Philosophical Magazine Letters, 1996, 73, 71-78.	1.2	106
9	Electrochemical Stability of Magnesium Battery Current Collectors in a Grignard Reagent-Based Electrolyte. Journal of the Electrochemical Society, 2013, 160, C83-C88.	2.9	105
10	Rafting mechanism for Ni-base superalloy under external stress: elastic or elasticâ€“plastic phenomena?. Acta Materialia, 2003, 51, 4033-4044.	7.9	89
11	Toward â€œrocking-chair typeâ€•Mgâ€“Li dual-salt batteries. Journal of Materials Chemistry A, 2015, 3, 10188-10194.	10.3	72
12	Effects of volume strain due to Liâ€“Sn compound formation on electrode potential in lithium-ion batteries. Acta Materialia, 2008, 56, 1539-1545.	7.9	70
13	Anisotropic elastic constants of lotus-type porous copper: measurements and micromechanics modeling. Acta Materialia, 2002, 50, 4105-4115.	7.9	69
14	Effect of external fields on ordering of FePd. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 312, 118-127.	5.6	68
15	Elastic properties of lotus-type porous iron: acoustic measurement and extended effective-mean-field theory. Acta Materialia, 2004, 52, 5195-5201.	7.9	67
16	Metalloid substitution elevates simultaneously the strength and ductility of face-centered-cubic high-entropy alloys. Acta Materialia, 2022, 225, 117571.	7.9	64
17	Preferential formation of anatase in laser-ablated titanium dioxide films. Acta Materialia, 2005, 53, 323-329.	7.9	62
18	Ultrasound-induced crystallization around the glass transition temperature for Pd40Ni40P20 metallic glass. Acta Materialia, 2004, 52, 423-429.	7.9	61

#	Article	IF	Citations
19	Fast Diffusion of Multivalent Ions Facilitated by Concerted Interactions in Dualâ€Ion Battery Systems. Advanced Energy Materials, 2018, 8, 1801475.	19.5	59
20	Zinc-based spinel cathode materials for magnesium rechargeable batteries: toward the reversible spinelâ€“rocksalt transition. Journal of Materials Chemistry A, 2019, 7, 12225-12235.	10.3	59
21	Control of compound forming reaction at the interface between SnZn solder and Cu substrate. Journal of Alloys and Compounds, 2005, 392, 200-205.	5.5	54
22	Kinetics of cubic to tetragonal transformation under external field by the time-dependent Ginzburg-Landau approach. Physical Review B, 2000, 62, 5435-5441.	3.2	53
23	Glass-liquid transition in a less-stable metallic glass. Physical Review B, 2005, 72, .	3.2	53
24	Structure Design of Longâ€Life Spinelâ€Oxide Cathode Materials for Magnesium Rechargeable Batteries. Advanced Materials, 2021, 33, e2007539.	21.0	52
25	Mechanical-energy influences to electrochemical phenomena in lithium-ion batteries. Journal of Materials Chemistry, 2011, 21, 2701.	6.7	51
26	Structural instability of metallic glasses under radio-frequency-ultrasonic perturbation and its correlation with glass-to-crystal transition of less-stable metallic glasses. Journal of Chemical Physics, 2006, 125, 154502.	3.0	50
27	Three-Dimensional Nanoelectrode by Metal Nanowire Nonwoven Clothes. Nano Letters, 2014, 14, 1932-1937.	9.1	48
28	EQCM Analysis of Redox Behavior of CuFe Prussian Blue Analog in Mg Battery Electrolytes. Journal of the Electrochemical Society, 2015, 162, A2356-A2361.	2.9	48
29	Elastic and anelastic behavior of Zr55Al10Ni5Cu30 bulk metallic glass around the glass transition temperature under ultrasonic excitation. Scripta Materialia, 2003, 49, 267-271.	5.2	46
30	Nanoscale elastic inhomogeneity of a Pd-based metallic glass: Sound velocity from ultrasonic and inelastic x-ray scattering experiments. Physical Review B, 2007, 76, .	3.2	45
31	Initial Atomic Motion Immediately Following Femtosecond-Laser Excitation in Phase-Change Materials. Physical Review Letters, 2016, 117, 135501.	7.8	45
32	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.	7.8	43
33	Mechanism of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>c</mml:mi></mml:math>-axis orientation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>0</mml:mn></mml:msub></mml:m in nanostructured<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Fe</mml:mi><mml:mi	3.2	40
34	Electrochemical phase transformation accompanied with Mg extraction and insertion in a spinel MgMn₂O₄ cathode material. Physical Chemistry Chemical Physics, 2019, 21, 23749-23757.	2.8	39
35	Solvation-Structure Modification by Concentrating Mg(TFSA)₂â€“MgCl₂â€“Triglyme Ternary Electrolyte. Journal of Physical Chemistry Letters, 2018, 9, 4732-4737.	4.6	37
36	Synthesis of Binary Magnesiumâ€“Transition Metal Oxides via Inverse Coprecipitation. Japanese Journal of Applied Physics, 2013, 52, 025501.	1.5	36

#	Article	IF	Citations
37	Distortion of Local Atomic Structures in Amorphous Ge-Sb-Te Phase Change Materials. Physical Review Letters, 2018, 120, 205502.	7.8	35
38	Suppressive effect of Fe cations in Mg(Mn1âˆ’xFex)2O4 positive electrodes on oxidative electrolyte decomposition for Mg rechargeable batteries. Journal of Power Sources, 2019, 435, 226822.	7.8	35
39	Formation of Cu Nanoparticles by Electroless Deposition Using Aqueous CuO Suspension. Journal of the Electrochemical Society, 2008, 155, D474.	2.9	34
40	EQCM analysis of redox behavior of Prussian blue in a lithium battery electrolyte. Journal of Materials Chemistry A, 2014, 2, 8041.	10.3	34
41	Evaluation of elastic strain energy associated with the formation of hydride precipitates in LaNi5. Intermetallics, 2000, 8, 613-618.	3.9	33
42	Anisotropic Yield Behavior of Lotus-Type Porous Iron: Measurements and Micromechanical Mean-Field Analysis. Journal of Materials Research, 2005, 20, 135-143.	2.6	33
43	Thermal stability of MnO2 polymorphs. Journal of Solid State Chemistry, 2022, 305, 122683.	2.9	33
44	Effect of Applied Stress on fcc-L1₀ Transformation of FePd Single Crystal. Materials Transactions, JIM, 1998, 39, 24-30.	0.9	32
45	Synthesis of Spinel-Type Magnesium Cobalt Oxide and Its Electrical Conductivity. Materials Transactions, 2008, 49, 824-828.	1.2	32
46	Accelerated Kinetics Revealing Metastable Pathways of Magnesiation-Induced Transformations in MnO₂ Polymorphs. Chemistry of Materials, 2021, 33, 6983-6996.	6.7	32
47	Single-crystal elastic constants of disordered and ordered FePd. Journal of Applied Physics, 2004, 96, 6220-6223.	2.5	31
48	Effective-mean-field approach for macroscopic elastic constantsof composites. Applied Physics Letters, 2004, 85, 197-199.	3.3	31
49	A new aspect of Chevrel compounds as positive electrodes for magnesium batteries. Journal of Materials Chemistry A, 2014, 2, 14858-14866.	10.3	31
50	Elastic anisotropy of rafted Ni-base superalloy at high temperatures. Acta Materialia, 2003, 51, 4863-4869.	7.9	30
51	Constructing metal-anode rechargeable batteries utilizing concomitant intercalation of Liâ€“Mg dual cations into Mo₆S₈. Journal of Materials Chemistry A, 2017, 5, 3534-3540.	10.3	30
52	Electrochemical Stability of Metal Electrodes for Reversible Magnesium Deposition/Dissolution in Tetrahydrofuran Dissolving Ethylmagnesium Chloride. ECS Electrochemistry Letters, 2012, 1, D11-D14.	1.9	29
53	High oxide-ion conductivity of monovalent-metal-doped bismuth vanadate at intermediate temperatures. Solid State Ionics, 2010, 181, 719-723.	2.7	28
54	Formation of Mono-variant L1₀ Structure on Ordering of FePd under Magnetic Fields. Materials Transactions, JIM, 2000, 41, 917-922.	0.9	27

#	Article	IF	Citations
55	Electronic structure of Pd42.5Ni7.5Cu30P20, an excellent bulk metallic glass former: Comparison to the Pd40Ni40P20 reference glass. Acta Materialia, 2007, 55, 3413-3419.	7.9	27
56	Influence of Mechanical Strain on the Electrochemical Lithiation of Aluminum-Based Electrode Materials. Journal of the Electrochemical Society, 2011, 159, A14-A17.	2.9	27
57	Roles of transition metals interchanging with lithium in electrode materials. Physical Chemistry Chemical Physics, 2015, 17, 14064-14070.	2.8	27
58	Elastically constrained phase-separation dynamics competing with the charge process in the LiFePO4/FePO4 system. Journal of Materials Chemistry A, 2013, 1, 2567.	10.3	26
59	Feasible transformation of MgCo2O4 from spinel to defect rocksalt structure under electron irradiation. Scripta Materialia, 2019, 167, 26-30.	5.2	26
60	Low-temperature acoustic properties and quasiharmonic analysis for Cu-based bulk metallic glasses. Physical Review B, 2007, 76, .	3.2	25
61	Spinelâ€“rocksalt transition as a key cathode reaction toward high-energy-density magnesium rechargeable batteries. Current Opinion in Electrochemistry, 2020, 21, 93-99.	4.8	25
62	Local Structure and Glass Transition in Zr-Based Binary Amorphous Alloys. Materials Transactions, 2005, 46, 2282-2286.	1.2	24
63	Oxidation-State Control of Nanoparticles Synthesized via Chemical Reduction Using Potential Diagrams. Journal of the Electrochemical Society, 2009, 156, D321.	2.9	24
64	Effects of water content on magnesium deposition from a Grignard reagent-based tetrahydrofuran electrolyte. Research on Chemical Intermediates, 2014, 40, 3-9.	2.7	24
65	Elastic constants of lotus-type porous magnesium: Comparison with effective-mean-field theory. Journal of Applied Physics, 2004, 96, 3696-3701.	2.5	22
66	Elastic constant measurement of Ni-base superalloy with the RUS and mode selective EMAR methods. Ultrasonics, 2002, 40, 211-215.	3.9	21
67	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.	2.9	21
68	Catalytic mechanism of spinel oxides for oxidative electrolyte decomposition in Mg rechargeable batteries. Journal of Materials Chemistry A, 2021, 9, 26401-26409.	10.3	21
69	Elastic stiffness and ultrasonic attenuation of superconductorMgB2at low temperatures. Physical Review B, 2002, 66, .	3.2	20
70	Structural study of Zr-based metallic glasses. Journal of Alloys and Compounds, 2007, 434-435, 119-120.	5.5	20
71	Heating rate dependence of Tg and Tx in Zr-based BMGs with characteristic structures. Journal of Alloys and Compounds, 2009, 483, 8-13.	5.5	20
72	Crystallization Behavior and Structural Stability of Zr₅₀Cu₄₀Al₁₀ Bulk Metallic Glass. Materials Transactions, 2009, 50, 1340-1345.	1.2	20

#	Article	IF	Citations
73	Time-Resolved Coherent Diffraction of Ultrafast Structural Dynamics in a Single Nanowire. Nano Letters, 2014, 14, 2413-2418.	9.1	20
74	Influence of the elastic strain on the band structure of ellipsoidal SiGe coherently embedded in the Si matrix. Journal of Applied Physics, 2003, 94, 916-920.	2.5	19
75	On the preferential formation of anatase in amorphous titanium oxide film. Scripta Materialia, 2005, 53, 1019-1023.	5.2	19
76	Static heterogeneity in metallic glasses and its correlation to physical properties. Journal of Non-Crystalline Solids, 2011, 357, 494-500.	3.1	19
77	Transverse excitations in liquid Ga. European Physical Journal: Special Topics, 2011, 196, 85-93.	2.6	19
78	Elasticity and anelasticity of metallic glass near the glass transition temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 278-282.	5.6	18
79	Precipitation of the ZrCu <i>B2</i> phase in Zr₅₀Cu_{50â€“}<i>_x</i>Al<i>_x</i> (<i>x</i> = 0, 4, 6) metallic glasses by rapidly heating and cooling. Journal of Materials Research, 2010, 25, 793-800.	2.6	18
80	What determines the critical size for phase separation in LiFePO4 in lithium ion batteries?. Journal of Materials Chemistry A, 2013, 1, 14532.	10.3	18
81	Interpretation in elastic regime for rafting of Ni-base superalloy based on the external-stress-free dimensional change due to internal-stress equilibration. Acta Materialia, 2005, 53, 4497-4504.	7.9	17
82	Inhomogeneity and glass-forming ability in the bulk metallic glass<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Pd</mml:mtext></mml:mrow><mml:mrow><mml:mn>42.5</mml Physical Review B, 2009, 80, .	3.2	17
83	Elastic property of aged duplex stainless steel. Scripta Materialia, 2003, 48, 229-234.	5.2	16
84	Elastic-stiffness coefficients of a silicon carbide fibre at elevated temperatures: Acoustic spectroscopy and micromechanics modelling. Philosophical Magazine, 2003, 83, 503-512.	1.6	16
85	Interfacial reaction of gas-atomized Snâ€“Zn solder containing Ni and Cu additives. Journal of Alloys and Compounds, 2009, 484, 185-189.	5.5	16
86	Exchange-coupling of c-axis oriented L1â€“FePd and Fe in FePd/Fe thin films. Applied Physics Letters, 2010, 97, .	3.3	16
87	Elastic anisotropy and incohesive bond of chemical-vapor-deposition diamond film: Acoustic resonance measurements and micromechanics modeling. Journal of Applied Physics, 2003, 94, 6405-6410.	2.5	15
88	Formation of Nickel Nanoparticles by Electroless Deposition Using NiO and Ni(OH)[sub 2] Suspensions. Journal of the Electrochemical Society, 2008, 155, D583.	2.9	15
89	Elastic inhomogeneity and acoustic phonons in Pd-, Pt-, and Zr-based metallic glasses. Physical Review B, 2010, 81, .	3.2	15
90	Revisit to diffraction anomalous fine structure. Journal of Synchrotron Radiation, 2014, 21, 1247-1251.	2.4	14

#	Article	IF	Citations
91	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.	3.1	14
92	Electrochemically Induced Strain Evolution in Ptâ€“Ni Alloy Nanoparticles Observed by Bragg Coherent Diffraction Imaging. Nano Letters, 2021, 21, 5945-5951.	9.1	14
93	Construction of supramolecular polymer hydrogel electrolyte with ionic channels for flexible supercapacitors. Materials Chemistry Frontiers, 0, , .	5.9	13
94	Elastic instability condition of the raft structure during creep deformation in nickel-base superalloys. Acta Materialia, 2008, 56, 3786-3790.	7.9	12
95	Low-temperature elastic moduli of a Pd-based metallic glass showing positive phonon dispersion. Physical Review B, 2008, 78, .	3.2	12
96	Diffusionless isothermal omega transformation in titanium alloys driven by quenched-in compositional fluctuations. Physical Review Materials, 2019, 3, .	2.4	12
97	Evolution of Internal Stress Field in Ni-Base Superalloy through Creep Deformation. Materials Science Forum, 2005, 475-479, 619-622.	0.3	11
98	On the stability of chemical order in small ordered-alloy particles. Philosophical Magazine, 2005, 85, 855-865.	1.6	11
99	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
100	A Pseudoternary Phase Diagram of the BaO-ZrO2-ScO1.5 System at 1600ÂÂ°C and Solubility of Scandia into Barium Zirconate. Journal of Phase Equilibria and Diffusion, 2007, 28, 517-522.	1.4	11
101	Crystallization accelerated by ultrasound in Pd-based metallic glasses. Journal of Alloys and Compounds, 2007, 434-435, 194-195.	5.5	10
102	Phase classification, electrical conductivity, and thermal stability of Bi2(V0.95TM0.05)O5.5+Î´ (TM:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.7	10
103	Control of c-axis orientation of L10-FePd in dual-phase-equilibrium FePd/Fe thin films. Journal of Applied Physics, 2011, 109, 033513.	2.5	10
104	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
105	Decreasing activation energy of fast relaxation processes in a metallic glass during aging. Physical Review B, 2019, 99, .	3.2	10
106	Fabrication of Isolated FePd Nanoparticles by Sputtering and Heat Treatment. Japanese Journal of Applied Physics, 2003, 42, 2858-2859.	1.5	9
107	Incident Photon-Energy Dependence of the Electronic Density of States in Pd_{42.5}Ni_{7.5}Cu₃₀P₂₀ Metallic Glass. Materials Transactions, 2005, 46, 2803-2806.	1.2	9
108	Extended mean-field method for predicting yield behaviors of porous materials. Mechanics of Materials, 2007, 39, 53-63.	3.2	9

#	Article	IF	Citations
109	Structural inhomogeneity of metallic glass observed by ultrasonic and inelastic X-ray scattering measurements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 236-242.	5.6	9
110	Dynamic Relaxation of Pd42.5Ni7.5Cu30P20 Metallic Glass. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2013, 60, 228-235.	0.2	9
111	Nitrogen doping-induced local structure change in a Cr₂Ge₂Te₆ inverse resistance phase-change material. Materials Advances, 2020, 1, 2426-2432.	5.4	9
112	Configurational free energy in order-disorder transitions from Monte Carlo calculations for systems under external fields. Physical Review B, 1999, 60, 9198-9201.	3.2	8
113	Effects of External Magnetic Field on FePt Films during Heat Treatment. Japanese Journal of Applied Physics, 2004, 43, 273-276.	1.5	8
114	Correlation of dynamic and quasistatic relaxations: The Coxâ€"Merz rule for metallic glass. Applied Physics Letters, 2009, 95, .	3.3	8
115	Nonthermal Dynamics of Dielectric Functions in a Resonantly Bonded Photoexcited Material. Advanced Functional Materials, 2020, 30, 2002821.	14.9	8
116	Thermal fluctuation for the time-dependent Ginzburg-Landau simulation. Physical Review E, 2001, 63, 060101.	2.1	7
117	Ultrasound-Induced Structural Anomaly of Supercooled Liquid in Some Bulk Metallic Glasses. Materials Transactions, 2004, 45, 1189-1193.	1.2	7
118	Two distinct crystallization processes in supercooled liquid. Journal of Chemical Physics, 2016, 144, 194505.	3.0	7
119	Effects of solute oxygen on kinetics of diffusionless isothermal Ï‰ transformation in Î²-titanium alloys. Scripta Materialia, 2020, 188, 88-91.	5.2	7
120	Temperature dependence of elastic constants of lotus-type porous copper. Materials Letters, 2004, 58, 1819-1824.	2.6	6
121	Low-temperature crystallization caused by ultrasound in Pd42.5 Ni7.5 Cu30 P20 and Pd40 Ni40 P20 bulk metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 273-277.	5.6	6
122	Partial structure of Pd_{42.5}Ni_{7.5}Cu₃₀P₂₀bulk metallic glass: Comparison to the reference Pd₄₀Ni₄₀P₂₀glass. Journal of Physics: Conference Series, 2008, 98, 012013.	0.4	6
123	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.	5.1	6
124	Electrochemical lithium intercalation behavior of pristine and milled hexagonal boron nitride. Journal of Electroanalytical Chemistry, 2017, 799, 263-269.	3.8	6
125	Atomistic study on simultaneous achievement of partial crystallization and rejuvenated glassy structure in thermal process of metallic glasses. Philosophical Magazine, 2022, 102, 1209-1230.	1.6	6
126	Influences of Enhanced Entropy in Layered Rocksalt Oxide Cathodes for Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 4369-4381.	5.1	6

#	Article	IF	Citations
127	Local Structure around Pd Atoms in Pd_{42.5}Ni_{7.5}Cu₃₀P₂₀ Excellent Glass-Former Studied by Anomalous X-ray Scattering. Materials Transactions, 2007, 48, 2358-2361.	1.2	5
128	Electrochemically synthesized liquid-sulfur/sulfide composite materials for high-rate magnesium battery cathodes. Journal of Materials Chemistry A, 2021, 9, 16585-16593.	10.3	5
129	Search for vacancies in concentrated solid-solution alloys with fcc crystal structure. Physical Review Materials, 2020, 4, .	2.4	5
130	Excellently balanced water-intercalation-type heat-storage oxide. Nature Communications, 2022, 13, 1452.	12.8	5
131	Nonthermal melting of charge density wave order via nucleation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VTe</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2022, 105, .	3.2	5
132	Partial structure of Pd42:5Ni7:5Cu30P20bulk metallic glass. Journal of Physics: Conference Series, 2009, 144, 012055.	0.4	4
133	Effects of oxygen content and heating rate on phase transition behavior in Bi2(V0.95Ti0.05)O5.475âˆ'x. Journal of Alloys and Compounds, 2011, 509, 5833-5838.	5.5	4
134	In Situ Observation of Tin Negative Electrode / Electrolyte Interface by X-ray Reflectivity. ECS Transactions, 2013, 50, 31-37.	0.5	4
135	Phonon Excitations in Pd₄₀Ni₄₀P₂₀ Bulk Metallic Glass by Inelastic X-Ray Scattering. Materials Science Forum, 0, 879, 767-772.	0.3	4
136	Dendrite-free alkali metal electrodeposition from contact-ion-pair state induced by mixing alkaline earth cation. Cell Reports Physical Science, 2022, 3, 100907.	5.6	4
137	Atomizing Effect on Sn-Zn Based Solder Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 162-165.	0.4	3
138	Dynamic viscoelasticity of Zrâ€"Alâ€"Niâ€"Cu metallic glass in the glass transition region. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 232-235.	5.6	3
139	Phase Stability of Bi₂(V_{1−<I>x</I>}ME<I>_x</I>)O_{5.5+δ} (ME=Li and Ag, <I>x</I>=0.05 and 0.1). Materials Transactions, 2010, 51, 561-566.	1.2	3
140	Structural modification by adding Li cations into Mg/Cs-TFSA molten salt facilitating Mg electrodeposition. RSC Advances, 2015, 5, 3063-3069.	3.6	3
141	Direct observation of elastic softening immediately after femtosecond-laser excitation in a phase-change material. Physical Review B, 2020, 101, .	3.2	3
142	Crystallization of Zr50Cu40Al10 Metallic Glass by Rapid Heating Process. Zairyo/Journal of the Society of Materials Science, Japan, 2009, 58, 205-208.	0.2	3
143	Elastic constants predicted from sintered porous MgB2 via micromechanics modeling. Materials Letters, 2003, 57, 3910-3913.	2.6	2
144	Anomalous Crystallization Induced by Ultrasound in Pd_{42.5}Ni_{7.5}Cu₃₀P₂₀ Metallic Glass. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 547-550.	0.1	2

#	Article	IF	Citations
145	Structural Stability and Elasticity in Zr-Based Bulk Metallic Glasses. Materials Science Forum, 2007, 561-565, 1391-1395.	0.3	2
146	Low Temperature Elastic Properties of CuZrTi Bulk Metallic Glass. Materials Transactions, 2007, 48, 1842-1845.	1.2	2
147	Soft X-ray emission study of Pdâ€“Niâ€“Cuâ€“P bulk metallic glass. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 426-429.	1.7	2
148	Study on Correlation between Complex Relaxation Phenomena and Elastic Heterogeneity in Metallic Glasses. Zairyo/Journal of the Society of Materials Science, Japan, 2013, 62, 167-171.	0.2	2
149	Evolution of microstructure and variations in mechanical properties accompanied with diffusionless isothermal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï‰</mml:mi></mml:math> transformation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -titanium alloys. Physical Review Materials, 2020, 4, .	2.4	2
150	In situ detection method for obtaining permeability of Fe-based amorphous alloys: ac resistance measurement for Fe84Nb7B9. Applied Physics Letters, 2005, 86, 032503.	3.3	1
151	Elastic Properties of Cu-Based Bulk Metallic Glass around Glass Transition Temperature. Materials Science Forum, 2007, 539-543, 1932-1936.	0.3	1
152	ãƒãƒ¼ã,¿ã,¹åž‹ãƒãƒ¼ãƒ©ã,¹é‡'å±žã®å·¨è¦–çš„å¼¾æ€§çŽ‡: æ–°ãŸãªå¹³å‡åŒ–ç†è«–ã®ææ¡ˆã¨ãã®æ¤œè¨¼. Materia Japan, 2007, 46,	0.1	1
153	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	1
154	Effects of Transformation Strain Due to Lithiation/delithiation in Sn Electrode of Li-ion Batteries. Electrochemistry, 2010, 78, 460-462.	1.4	1
155	Modelling Dilatometry Data of Isothermal Ï‰-Phase Formation in a Strongly Î²-Stabilised TiV-Alloy. Materials Science Forum, 0, 1016, 1851-1856.	0.3	1
156	CHAPTER 11. Mgâ€“Li Dual-cation Batteries. RSC Energy and Environment Series, 2019, , 241-274.	0.5	1
157	Anisotropic Elastic Constants of Porous Copper with Resonant Ultrasound Spectroscopy and Micromechanics. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2002, 66, 1073-1077.	0.4	0
158	Micromechanical Mean-Field Analysis for Stress-Strain Curve of Lotus-Type Porous Iron. Materials Science Forum, 2005, 486-487, 489-492.	0.3	0
159	Evaluation of Strain Field Around SIC Particle in Poly-Crystalline Silicon. , 2006, , .		0
160	æ”¾å°„å…‰ãŠã,ˆã³Xç·šå›žæŠ˜æ³•ã«ã,ˆã,‹ã,¢ãƒ«ãƒŸãƒ‹ã,¦ãƒæ§‹é€ è§£æžã®ä¾‹. Keikinzoku/Journal of Japan Institute of Light Metals,	0.4	0
161	Evaluation of the Stability of Raft Structure in Nickel Base Superalloys Throughout their Lifetime. Materials Research Society Symposia Proceedings, 2006, 980, 8.	0.1	0
162	Ultrasonic Spectroscopy and X-Ray Diffraction Study for ARB Aluminum. Materials Science Forum, 2007, 561-565, 937-940.	0.3	0

#	Article	IF	Citations
163	Formation of Columnar-Shaped Structure of Fe in Feâ€"Crâ€"Sn Thin Films and Its Shape-Magnetic Anisotropy. Japanese Journal of Applied Physics, 2011, 50, 013004.	1.5	0
164	A Possible Way of Utilizing a Polyvalent Metal As a Negative Electrode of Storage Battery. ECS Meeting Abstracts, 2013, , .	0.0	0
165	Framework Structures for Mg Battery Cathodes. Materials Science Forum, 2016, 879, 2150-2152.	0.3	0
166	Irreversible thermodynamics of ideal plastic deformation. Cogent Physics, 2018, 5, 1496613.	0.7	0
167	Novel Mg Rechargeable Battery Cathodes: Chevrel to Spinel. , 2021, , 491-499.		0
168	Fundamental Concepts of Bragg Coherent Diffraction Imaging Enabling to Reveal the 3D Displacement and Strain Field in Materials. Nihon Kessho Gakkaishi, 2021, 63, 143-150.	0.0	0
169	Relaxation Behavior and Heterogeneous Structures of Metallic Glasses. Zairyo/Journal of the Society of Materials Science, Japan, 2021, 70, 374-380.	0.2	0
170	Experimental Methods of Bragg Coherent Diffraction Imaging for the 3D Displacement and Strain Field Visualization in Materials. Nihon Kessho Gakkaishi, 2021, 63, 151-158.	0.0	0
171	Elastic constants of lotus-type porous metal : measurement and micromechanics modeling. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 73-74.	0.0	0
172	Measurement of the elastic-stiffness tensor of SiC_f/Ti composites at elevated temperatures and nondestructive evaluation of disbonding. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 405-406.	0.0	0
173	OS06W0137 Acoustic spectroscopy for measuring anisotropic elastic constants of thin films. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003.2, _OS06W0137-_OS06W0137.	0.0	0
174	OS6(5)-22(OS06W0137) Acoustic Spectroscopy for Measuring Anisotropic Elastic Constants of Thin Films. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 237.	0.0	0
175	Measurement of the Anisotropic Elastic Constants of CVD Diamond Film and Micromechanics Modeling. Zairyo/Journal of the Society of Materials Science, Japan, 2003, 52, 1160-1165.	0.2	0
176	Elastic-Constant Measurement for Lotus-Type Porous Magnesium with Resonant Ultrasound Spectroscopy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2003, 67, 417-419.	0.4	0
177	Formation of Columnar-Shaped Structure of Fe in Feâ€"Crâ€"Sn Thin Films and Its Shape-Magnetic Anisotropy. Japanese Journal of Applied Physics, 2011, 50, 013004.	1.5	0
178	Fundamental Study towards Development of Energy Storage Devices Utilizing Multivalent Cations. Materia Japan, 2020, 59, 413-421.	0.1	0