Akihisa Inoue

List of Publications by Year
in descending order

912 papers	54,387 citations	1893 102 h-index	2178 202 g-index
925 all docs	925 docs citations	925 times ranked	11003 citing authors

#	Article	IF	Citations
1	Stabilization of metallic supercooled liquid and bulk amorphous alloys. Acta Materialia, 2000, 48, 279-306.	7.9	5,263
2	Classification of Bulk Metallic Glasses by Atomic Size Difference, Heat of Mixing and Period of Constituent Elements and Its Application to Characterization of the Main Alloying Element. Materials Transactions, 2005, 46, 2817-2829.	1.2	3,222
3	High Strength Bulk Amorphous Alloys with Low Critical Cooling Rates (<I>Overview</I>). Materials Transactions, JIM, 1995, 36, 866-875.	0.9	1,031
4	Zr–Al–Ni Amorphous Alloys with High Glass Transition Temperature and Significant Supercooled Liquid Region. Materials Transactions, JIM, 1990, 31, 177-183.	0.9	879
5	Amorphous, nanoquasicrystalline and nanocrystalline alloys in Al-based systems. Progress in Materials Science, 1998, 43, 365-520.	32.8	826
6	A Stable Quasicrystal in Al-Cu-Fe System. Japanese Journal of Applied Physics, 1987, 26, L1505-L1507.	1.5	760
7	Amorphous Zr–Al–TM (TM=Co, Ni, Cu) Alloys with Significant Supercooled Liquid Region of Over 100 K. Materials Transactions, JIM, 1991, 32, 1005-1010.	0.9	742
8	Al–La–Ni Amorphous Alloys with a Wide Supercooled Liquid Region. Materials Transactions, JIM, 1989, 30, 965-972.	0.9	704
9	Calculations of Mixing Enthalpy and Mismatch Entropy for Ternary Amorphous Alloys. Materials Transactions, JIM, 2000, 41, 1372-1378.	0.9	662
10	Glass-forming ability of alloys. Journal of Non-Crystalline Solids, 1993, 156-158, 473-480.	3.1	616
11	Cobalt-based bulk glassy alloy with ultrahigh strength and soft magnetic properties. Nature Materials, 2003, 2, 661-663.	27.5	514
12	New Amorphous Mg-Ce-Ni Alloys with High Strength and Good Ductility. Japanese Journal of Applied Physics, 1988, 27, L2248-L2251.	1.5	504
13	Direct observation of local atomic order in a metallic glass. Nature Materials, 2011, 10, 28-33.	27.5	483
14	Thermal and Magnetic Properties of Bulk Fe-Based Glassy Alloys Prepared by Copper Mold Casting. Materials Transactions, JIM, 1995, 36, 1427-1433.	0.9	434
15	Soft magnetic properties of nanocrystalline bcc Feâ€Zrâ€B and Feâ€Mâ€Bâ€Cu (M=transition metal) alloys with high saturation magnetization (invited). Journal of Applied Physics, 1991, 70, 6232-6237.	2.5	432
16	Bulk amorphous alloys with high mechanical strength and good soft magnetic properties in Feâ€“TMâ€“B (TM=IVâ€“VIII group transition metal) system. Applied Physics Letters, 1997, 71, 464-466.	3.3	386
17	Preparation of Bulk Glassy Pd₄₀Ni₁₀Cu₃₀P₂₀ Alloy of 40 mm in Diameter by Water Quenching. Materials Transactions, JIM, 1996, 37, 181-184.	0.9	380
18	Fe-Based Ferromagnetic Glassy Alloys with Wide Supercooled Liquid Region. Materials Transactions, JIM, 1995, 36, 1180-1183.	0.9	374

#	Article	IF	Citations
19	Aluminum-Based Amorphous Alloys with Tensile Strength above 980 MPa (100 kg/mm2). Japanese Journal of Applied Physics, 1988, 27, L479-L482.	1.5	361
20	Excess free volume in metallic glasses measured by X-ray diffraction. Acta Materialia, 2005, 53, 1611-1619.	7.9	344
21	Novel hexagonal structure and ultrahigh strength of magnesium solid solution in the Mgâ€“Znâ€“Y system. Journal of Materials Research, 2001, 16, 1894-1900.	2.6	338
22	Production of Amorphous Cylinder and Sheet of La₅₅Al₂₅Ni₂₀ Alloy by a Metallic Mold Casting Method. Materials Transactions, JIM, 1990, 31, 425-428.	0.9	335
23	Fabrication of Bulk Glassy Zr₅₅Al₁₀Ni₅Cu₃₀ Alloy of 30 mm in Diameter by a Suction Casting Method. Materials Transactions, JIM, 1996, 37, 185-187.	0.9	322
24	Preparation and Thermal Stability of Bulk Amorphous Pd₄₀Cu₃₀Ni₁₀P₂₀ Alloy Cylinder of 72 mm in Diameter. Materials Transactions, JIM, 1997, 38, 179-183.	0.9	319
25	Ultrahigh Tensile Strengths of Al₈₈Y₂Ni₉M₁ (M=Mn or Fe) Amorphous Alloys Containing Finely Dispersed fcc-Al Particles. Materials Transactions, JIM, 1990, 31, 747-749.	0.9	313
26	Bulk amorphous and nanocrystalline alloys with high functional properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 1-10.	5.6	291
27	Recent Progress in Bulk Glassy Alloys. Materials Transactions, 2002, 43, 1892-1906.	1.2	291
28	Effect of strain rate on compressive behavior of a Pd40Ni40P20 bulk metallic glass. Intermetallics, 2002, 10, 1071-1077.	3.9	283
29	Extraordinary Plasticity of Ductile Bulk Metallic Glasses. Physical Review Letters, 2006, 96, 245502.	7.8	275
30	Nanoporous Metals by Dealloying Multicomponent Metallic Glasses. Chemistry of Materials, 2008, 20, 4548-4550.	6.7	272
31	Thermal and Mechanical Properties of Ti–Ni–Cu–Sn Amorphous Alloys with a Wide Supercooled Liquid Region before Crystallization. Materials Transactions, JIM, 1998, 39, 1001-1006.	0.9	267
32	New Amorphous Alloys with Good Ductility in Al-Y-M and Al-La-M (M=Fe, Co, Ni or Cu) Systems. Japanese Journal of Applied Physics, 1988, 27, L280-L282.	1.5	265
33	Rapid Degradation of Azo Dye by Feâ€Based Metallic Glass Powder. Advanced Functional Materials, 2012, 22, 2567-2570.	14.9	259
34	Bulk Nd–Fe–Al Amorphous Alloys with Hard Magnetic Properties. Materials Transactions, JIM, 1996, 37, 99-108.	0.9	255
35	Nanoporous PdNi Bimetallic Catalyst with Enhanced Electrocatalytic Performances for Electro-oxidation and Oxygen Reduction Reactions. Advanced Functional Materials, 2011, 21, 4364-4370.	14.9	251
36	Recent progress in bulk glassy, nanoquasicrystalline and nanocrystalline alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 16-30.	5.6	236

#	Article	IF	Citations
37	Formation, Thermal Stability and Mechanical Properties of Cu-Zr-Al Bulk Glassy Alloys. Materials Transactions, 2002, 43, 2921-2925.	1.2	230
38	High Mechanical Strengths of Mg–Ni–Y and Mg–Cu–Y Amorphous Alloys with Significant Supercooled Liquid Region. Materials Transactions, JIM, 1990, 31, 929-934.	0.9	225
39	Ferromagnetic bulk amorphous alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 1779-1793.	2.2	223
40	New Bulk Metallic Glasses for Applications as Magnetic-Sensing, Chemical, and Structural Materials. MRS Bulletin, 2007, 32, 651-658.	3.5	219
41	Formation, Thermal Stability and Mechanical Properties of Cu-Zr and Cu-Hf Binary Glassy Alloy Rods. Materials Transactions, 2004, 45, 584-587.	1.2	217
42	Low core losses of nanocrystalline Feâ€“Mâ€“B (M=Zr, Hf, or Nb) alloys. Journal of Applied Physics, 1993, 74, 3316-3322.	2.5	208
43	Superhigh strength and good soft-magnetic properties of (Fe,Co)â€“Bâ€“Siâ€“Nb bulk glassy alloys with high glass-forming ability. Applied Physics Letters, 2004, 85, 4911-4913.	3.3	204
44	Glass-Forming Ability of Bulk Pd₄₀Ni₁₀Cu₃₀P₂₀ Alloy. Materials Transactions, JIM, 1996, 37, 1531-1539.	0.9	202
45	New Stable Icosahedral Al-Cu-Ru and Al-Cu-Os Alloys. Japanese Journal of Applied Physics, 1988, 27, L1587-L1590.	1.5	194
46	Effect of Additional Elements on Glass Transition Behavior and Glass Formation Tendency of Zr–Al–Cu–Ni Alloys. Materials Transactions, JIM, 1995, 36, 1420-1426.	0.9	194
47	Stable Decagonal Al–Co–Ni and Al–Co–Cu Quasicrystals. Materials Transactions, JIM, 1989, 30, 463-473.	0.9	193
48	Dealloying by metallic melt. Materials Letters, 2011, 65, 1076-1078.	2.6	193
49	Increase in Mechanical Strength of Al–Y–Ni Amorphous Alloys by Dispersion of Nanoscale fcc-Al Particles. Materials Transactions, JIM, 1991, 32, 331-338.	0.9	191
50	Dynamic response of a Pd40Ni40P20 bulk metallic glass in tension. Scripta Materialia, 2002, 46, 43-47.	5.2	189
51	Ductility of bulk nanocrystalline composites and metallic glasses at room temperature. Applied Physics Letters, 2000, 77, 46-48.	3.3	187
52	Preparation of Bulky Amorphous Zr–Al–Co–Ni–Cu Alloys by Copper Mold Casting and Their Thermal and Mechanical Properties. Materials Transactions, JIM, 1995, 36, 391-398.	0.9	186
53	Superplastic nanoforming of Pd-based amorphous alloy. Scripta Materialia, 2001, 44, 1541-1545.	5.2	186
54	Ti-based amorphous alloys with a wide supercooled liquid region. Materials Letters, 1994, 19, 131-135.	2.6	184

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55	New Fe–Co–Ni–Zr–B Amorphous Alloys with Wide Supercooled Liquid Regions and Good Soft Magnetic Properties. Materials Transactions, JIM, 1997, 38, 359-362.	0.9	184
56	Formation of Icosahedral Quasicrystalline Phase in Zr–Al–Ni–Cu–M (M=Ag, Pd, Au or Pt) Systems. Materials Transactions, JIM, 1999, 40, 1181-1184.	0.9	184
57	Mg–Ni–La Amorphous Alloys with a Wide Supercooled Liquid Region. Materials Transactions, JIM, 1989, 30, 378-381.	0.9	181
58	Superplastic deformation of Zr65Al10Ni10Cu15 metallic glass. Scripta Materialia, 1997, 37, 431-436.	5.2	178
59	New Amorphous Al-Y, Al-La and Al-Ce Alloys Prepared by Melt Spinning. Japanese Journal of Applied Physics, 1988, 27, L736-L739.	1.5	172
60	New Bulk Glassy Ni-Based Alloys with High Strength of 3000 MPa. Materials Transactions, 2002, 43, 708-711.	1.2	171
61	Deformation behavior of Zr65Al10Ni10Cu15 glassy alloy with wide supercooled liquid region. Applied Physics Letters, 1996, 69, 1208-1210.	3.3	170
62	Full strength compacts by extrusion of glassy metal powder at the supercooled liquid state. Applied Physics Letters, 1995, 67, 2008-2010.	3.3	169
63	Enhancement of room-temperature plasticity in a bulk metallic glass by finely dispersed porosity. Applied Physics Letters, 2005, 86, 251907.	3.3	166
64	Deformation behavior of Zr-based bulk nanocrystalline amorphous alloys. Physical Review B, 2000, 61, R3761-R3763.	3.2	162
65	Soft Magnetic Bulk Glassy Fe-B-Si-Nb Alloys with High Saturation Magnetization above 1.5 T. Materials Transactions, 2002, 43, 766-769.	1.2	161
66	Mg-based amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 173, 1-8.	5.6	155
67	Fabrications and mechanical properties of bulk amorphous, nanocrystalline, nanoquasicrystalline alloys in aluminum-based system. Journal of Light Metals, 2001, 1, 31-41.	0.8	154
68	The world's biggest glassy alloy ever made. Intermetallics, 2012, 30, 19-24.	3.9	154
69	High-strength aluminum alloys containing nanoquasicrystalline particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 1-10.	5.6	152
70	Ultrahigh Mechanical Strengths of Al₈₈Y₂Ni_{10−<I>x</I>}M<I><SUE (M=Mn, Fe or Co) Amorphous Alloys Containing Nanoscale fcc-Al Particles. Materials Transactions, JIM, 1991, 32, 599-608.	0.9	147
71	Amorphous (Ti,Zr, Hf)î—¸Niî—¸Cu ternary alloys with a wide supercooled liquid region. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 181-182, 1423-1426.	5.6	142
72	Synthesis and Mechanical Properties of Bulk Amorphous Zr–Al–Ni–Cu Alloys Containing ZrC Particles. Materials Transactions, JIM, 1997, 38, 793-800.	0.9	137

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73	New bulk amorphous Feâ€“(Co,Ni)â€“Mâ€“B (M=Zr,Hf,Nb,Ta,Mo,W) alloys with good soft magnetic properties. Journal of Applied Physics, 1998, 83, 6326-6328.	2.5	137
74	Slowly-Cooled Bulk Amorphous Alloys. Materials Science Forum, 1995, 179-181, 691-700.	0.3	135
75	Hydrogen permeation and structural features of melt-spun Niâ€“Nbâ€“Zr amorphous alloys. Acta Materialia, 2005, 53, 3703-3711.	7.9	134
76	Superplasticity in Pd40Ni40P20 metallic glass. Scripta Materialia, 1998, 39, 301-306.	5.2	132
77	Investigation of Tiâ€“Feâ€“Co bulk alloys with high strength and enhanced ductility. Acta Materialia, 2005, 53, 2009-2017.	7.9	130
78	Newtonian to non-Newtonian master flow curves of a bulk glass alloy Pd40Ni10Cu30P20. Applied Physics Letters, 1998, 73, 3665-3667.	3.3	129
79	Bulk Amorphous Ni_{75−<I>x</I>}Nb₅M<I>_x</I> (M=Cr, Mo) Alloys with Large Supercooling and High Strength. Materials Transactions, JIM, 1999, 40, 1130-1136.	0.9	127
80	Thermal and Mechanical Properties of Cu-Based Cu-Zr-Ti Bulk Glassy Alloys. Materials Transactions, 2001, 42, 1149-1151.	1.2	127
81	Cu-based bulk glassy alloys with high tensile strength of over 2000 MPa. Journal of Non-Crystalline Solids, 2002, 304, 200-209.	3.1	127
82	New Cuâ€“Zr-based bulk metallic glasses with large diameters of up to 1.5cm. Scripta Materialia, 2006, 55, 711-713.	5.2	124
83	Nano-fabrication with metallic glassâ€”an exotic material for nano-electromechanical systems. Nanotechnology, 2007, 18, 035302.	2.6	124
84	Flux Treated Pd–Cu–Ni–P Amorphous Alloy Having Low Critical Cooling Rate. Materials Transactions, JIM, 1997, 38, 464-472.	0.9	121
85	Direct observation of icosahedral cluster in Zr70Pd30 binary glassy alloy. Applied Physics Letters, 2001, 79, 412-414.	3.3	121
86	Thermal Stability and Mechanical Strength of Bulk Glassy Ni-Nb-Ti-Zr Alloys. Materials Transactions, 2002, 43, 1952-1956.	1.2	121
87	Fabrication of Bulky Zr-Based Glassy Alloys by Suction Casting into Copper Mold. Materials Transactions, JIM, 1995, 36, 1184-1187.	0.9	119
88	Stabilization and high strain-rate superplasticity of metallic supercooled liquid. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 267, 171-183.	5.6	119
89	Mechanical properties and structural features of novel Fe-based bulk metallic glasses with unprecedented plasticity. Scientific Reports, 2014, 4, 6233.	3.3	118
90	Preparation and Mechanical Properties of Zr-based Bulk Nanocrystalline Alloys Containing Compound and Amorphous Phases. Materials Transactions, JIM, 1999, 40, 42-51.	0.9	117

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91	Thermal Stability and Mechanical Properties of Mg–Y–Cu–M (M = Ag,) Tj ETQq1 1 0.784314 rgBT /O	0.9	117
92	Excellent capability in degrading azo dyes by MgZn-based metallic glass powders. Scientific Reports, 2012, 2, 418.	3.3	117
93	Nanoporous CuS with excellent photocatalytic property. Scientific Reports, 2016, 5, 18125.	3.3	117
94	Preparation of Ti–Cu–Ni–Si–B Amorphous Alloys with a Large Supercooled Liquid Region. Materials Transactions, JIM, 1999, 40, 301-306.	0.9	116
95	A new criterion for predicting the glass-forming ability of bulk metallic glasses. Journal of Alloys and Compounds, 2009, 475, 207-219.	5.5	115
96	Developments and Applications of Bulk Glassy Alloys in Late Transition Metal Base System. Materials Transactions, 2006, 47, 1275-1285.	1.2	114
97	Ti-based amorphous alloys with a large supercooled liquid region. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 771-774.	5.6	112
98	Improvement of Mechanical Properties by Precipitation of Nanoscale Compound Particles in Zr–Cu–Pd–Al Amorphous Alloys. Materials Transactions, JIM, 1997, 38, 1040-1046.	0.9	111
99	Thermal Stability and Soft Magnetic Properties of Co–Fe–M–B (M=Nb,) Tj ETQq1 1 0.784314 rgBT /O ... 1256-1262.	0.9	111
100	Fabrication of porous Zrâ€“Cuâ€“Alâ€“Ni bulk metallic glass by spark plasma sintering process. Scripta Materialia, 2006, 55, 687-690.	5.2	109
101	High Strength and Good Ductility of Bulk Quasicrystalline Base Alloys in Zr₆₅Al_{7.5}Ni₁₀Cu<SUB>17.5−<I>x</ System. Materials Transactions, JIM, 1999, 40, 1137-1143.	0.9	107
102	A nanoporous metal phosphide catalyst for bifunctional water splitting. Journal of Materials Chemistry A, 2018, 6, 5574-5579.	10.3	106
103	New Amorphous Alloys with Good Ductility in Al-Ce-M (M=Nb, Fe, Co, Ni or Cu) Systems. Japanese Journal of Applied Physics, 1988, 27, L1796-L1799.	1.5	105
104	Formation and bioactivation of Zr-Al-Co bulk metallic glasses. Journal of Materials Research, 2009, 24, 2941-2948.	2.6	104
105	Ferrous and Nonferrous Bulk Amorphous Alloys. Materials Science Forum, 1998, 269-272, 855-864.	0.3	103
106	Crystallization Behavior of Amorphous Fe_{90−<I>X</I>}Nb₁₀B<I>_X</I&g (<I>X</I>=10 and 30) Alloys. Materials Transactions, JIM, 2000, 41, 1526-1529.	0.9	102
107	The micro-formability of Zr-based amorphous alloys in the supercooled liquid state and their application to micro-dies. Journal of Materials Processing Technology, 2001, 113, 64-69.	6.3	102
108	FeSiBP bulk metallic glasses with high magnetization and excellent magnetic softness. Journal of Magnetism and Magnetic Materials, 2008, 320, 2499-2503.	2.3	102

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109	Hydrogen Permeation Characteristics of Melt-Spun Ni-Nb-Zr Amorphous Alloy Membranes. Materials Transactions, 2003, 44, 1885-1890.	1.2	101
110	Mechanical Properties, Fracture Mode and Deformation Behavior of Al₇₀Pd₂₀Mn₁₀ Single-Quasicrystal. Materials Transactions, JIM, 1993, 34, 135-145.	0.9	99
111	Nanocrystalline composites with high strength obtained in Zrâ€“Tiâ€“Niâ€“Cuâ€“Al bulk amorphous alloys. Applied Physics Letters, 1999, 75, 340-342.	3.3	99
112	Newtonian viscosity of supercooled liquid in a Pd40Ni40P20 metallic glass. Applied Physics Letters, 2000, 77, 1114-1116.	3.3	99
113	Formation, thermal stability and electrical resistivity of quasicrystalline phase in rapidly quenched Al-Cr alloys. Journal of Materials Science, 1987, 22, 1758-1768.	3.7	98
114	Glass Transition Behavior and Viscous Flow Working of Pd₄₀Cu₃₀Ni₁₀P₂₀ Amorphous Alloy. Materials Transactions, JIM, 1999, 40, 64-71.	0.9	98
115	Nearly full density Ni52.5Nb10Zr15Ti15Pt7.5 bulk metallic glass obtained by spark plasma sintering of gas atomized powders. Applied Physics Letters, 2007, 90, 241902.	3.3	97
116	Hard Magnetic Bulk Amorphous Nd–Fe–Al Alloys of 12 mm in Diameter Made by Suction Casting. Materials Transactions, JIM, 1996, 37, 636-640.	0.9	96
117	Fabrication of Ni-free Ti-based bulk-metallic glassy alloy having potential for application as biomaterial, and investigation of its mechanical properties, corrosion, and crystallization behavior. Journal of Materials Research, 2007, 22, 1346-1353.	2.6	96
118	Long-Period Hexagonal Structures in Melt-Spun Mg₉₇Ln₂Zn₁ (Ln=Lanthanide Metal) Alloys. Materials Transactions, 2003, 44, 2151-2156.	1.2	95
119	Excellent soft-ferromagnetic bulk glassy alloys with high saturation magnetization. Applied Physics Letters, 2006, 88, 131907.	3.3	94
120	Fabrication and novel properties of nanostructured Al base alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 57-61.	5.6	93
121	Newtonian and non-Newtonian viscosity of supercooled liquid in metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 674-678.	5.6	93
122	The effect of Ni substitution on the glass-forming ability and mechanical properties of Mgâ€“Cuâ€“Gd metallic glass alloys. Journal of Alloys and Compounds, 2005, 387, 134-138.	5.5	93
123	Synthesis of stable quasicrystalline particle-dispersed Al base composite alloys. Journal of Materials Research, 1993, 8, 5-7.	2.6	93
124	Origin of Low Coercivity of Fe-(Al, Ga)-(P, C, B, Si, Ge) Bulk Glassy Alloys. Materials Transactions, 2003, 44, 2020-2024.	1.2	92
125	Cuâ€“Hfâ€“Tiâ€“Agâ€“Ta bulk metallic glass composites and their properties. Acta Materialia, 2005, 53, 2037-2048.	7.9	92
126	Multicomponent Fe-Based Glassy Alloys with Wide Supercooled Liquid Region before Crystallization. Materials Transactions, JIM, 1995, 36, 1282-1285.	0.9	91

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127	High-Strain-Rate Superplasticity due to Newtonian Viscous Flow in La₅₅Al₂₅Ni₂₀ Metallic Glass. Materials Transactions, JIM, 1999, 40, 794-803.	0.9	89
128	Nanocrystalline aluminum bulk alloys with a high strength of 1420 MPa produced by the consolidation of amorphous powders. Scripta Materialia, 2001, 44, 1599-1604.	5.2	89
129	Fe-B-Si-Nb Bulk Metallic Glasses with High Strength above 4000 MPa and Distinct Plastic Elongation. Materials Transactions, 2004, 45, 1214-1218.	1.2	88
130	Ferromagnetic bulk glassy alloys. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 246-252.	2.3	87
131	Application of Zr-Based Bulk Glassy Alloys to Golf Clubs. Materials Transactions, 2001, 42, 678-681.	1.2	87
132	A Stable Decagonal Quasicrystal in the Al–Cu–Co System. Materials Transactions, JIM, 1989, 30, 300-304.	0.9	86
133	Formation, Thermal Stability and Mechanical Properties of Ca-Based Bulk Glassy Alloys. Materials Transactions, 2002, 43, 81-84.	1.2	85
134	Cast structure and mechanical properties of Zrâ€“Cuâ€“Niâ€“Al bulk glassy alloys. Intermetallics, 2002, 10, 1113-1124.	3.9	85
135	Study of the structural relaxation-induced embrittlement of hypoeutectic Zrâ€“Cuâ€“Al ternary bulk glassy alloys. Acta Materialia, 2008, 56, 6097-6108.	7.9	85
136	Effect of Additional Elements (M) on the Thermal Stability of Supercooled Liquid in Fe_{72−<I>x</I>}Al₅Ga₂P<SUB>11& Glassy Alloys. Materials Transactions, JIM, 1996, 37, 32-38.	0.9	84
137	Glass Transition Behavior of Al-Y-Ni and Al-Ce-Ni Amorphous Alloys. Japanese Journal of Applied Physics, 1988, 27, L1579-L1582.	1.5	83
138	Thermal stabilities and discharge capacities of melt-spun Mgâ€“Ni-based amorphous alloys. Journal of Alloys and Compounds, 2002, 339, 230-235.	5.5	83
139	New Ti-Based Bulk Glassy Alloys with High Glass-Forming Ability and Superior Mechanical Properties. Materials Transactions, 2004, 45, 3223-3227.	1.2	83
140	Preparation of Cu₃₆Zr₄₈Ag₈Al₈ Bulk Metallic Glass with a Diameter of 25 mm by Copper Mold Casting. Materials Transactions, 2007, 48, 629-631.	1.2	83
141	High-strength binary Tiâ€“Fe bulk alloys with enhanced ductility. Journal of Materials Research, 2004, 19, 3600-3606.	2.6	82
142	Soft magnetic Feâ€“Siâ€“Bâ€“Pâ€“C bulk metallic glasses without any glass-forming metal elements. Journal of Alloys and Compounds, 2009, 483, 616-619.	5.5	82
143	Formation of metal-metal type aluminum-based amorphous alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1988, 19, 1369-1371.	1.4	81
144	Low Core Loss of a bcc Fe₈₆Zr₇B₆Cu₁ Alloy with Nanoscale Grain Size. Materials Transactions, JIM, 1991, 32, 551-556.	0.9	81

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145	Bulk nanocomposite permanent magnets produced by crystallization of (Fe,Co)â€"(Nd,Dy)â€"B bulk glassy alloy. Applied Physics Letters, 2002, 80, 1610-1612.	3.3	81
146	Corrosion Behavior of Zr–(Nb–)Al–Ni–Cu Glassy Alloys. Materials Transactions, JIM, 2000, 41, 1490-1494.	0.9	80
147	Formation and mechanical properties of Ni-based Niâ€"Nbâ€"Tiâ€"Hf bulk glassy alloys. Scripta Materialia, 2003, 48, 641-645.	5.2	80
148	Investigation of glass-forming ability, deformation and corrosion behavior of Ni-free Ti-based BMG alloys designed for application as dental implants. Materials Science and Engineering C, 2009, 29, 322-327.	7.3	80
149	Formation of Bulk Glassy Fe_{75â€"<i>x</i>â€"<i>y</i>}Cr_{<i>x</i>}Mo_{<i>y</i>}C₁₅B₁₀ Alloys and Their Corrosion Behavior. Journal of Materials Research, 2002, 17, 701-704.	2.6	78
150	Novel Hexagonal Structure of Ultra-High Strength Magnesium-Based Alloys. Materials Transactions, 2002, 43, 580-584.	1.2	77
151	Ferromagnetic Coâ€"Feâ€"Zrâ€"B amorphous alloys with glass transition and good high-frequency permeability. Applied Physics Letters, 1998, 73, 744-746.	3.3	76
152	Free volume kinetics during sub-Tg structural relaxation of a bulk Pd40Ni40P20 metallic glass. Applied Physics Letters, 2006, 88, 131906.	3.3	76
153	Ductile Al-Ni-Zr amorphous alloys with high mechanical strength. Journal of Materials Science Letters, 1988, 7, 805-807.	0.5	75
154	An amorphous nanoporous PdCuNi-S hybrid electrocatalyst for highly efficient hydrogen production. Applied Catalysis B: Environmental, 2019, 246, 156-165.	20.2	75
155	Extremely low critical cooling rates of new Pd-Cu-P base amorphous alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 401-405.	5.6	74
156	Bulk Glassy Fe-Ga-P-C-B-Si Alloys with High Glass-Forming Ability, High Saturation Magnetization and Good Soft Magnetic Properties. Materials Transactions, 2002, 43, 1235-1239.	1.2	74
157	Wear resistivity of super-precision microgear made of Ni-based metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 149-154.	5.6	74
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