

Akihisa Inoue

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920
papers

48,372
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99
h-index

191
g-index

925
ext. papers

50,890
ext. citations

3.2
avg, IF

7.87
L-index

#	Paper	IF	Citations
920	Stabilization of metallic supercooled liquid and bulk amorphous alloys. <i>Acta Materialia</i> , 2000 , 48, 279-306.	6.4	4701
919	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. <i>Materials Transactions</i> , 2005 , 46, 2817-2829	1.3	2306
918	High Strength Bulk Amorphous Alloys with Low Critical Cooling Rates (Overview). <i>Materials Transactions, JIM</i> , 1995 , 36, 866-875		950
917	Zr‐Al‐Ni Amorphous Alloys with High Glass Transition Temperature and Significant Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1990 , 31, 177-183		818
916	Amorphous, nanoquasicrystalline and nanocrystalline alloys in Al-based systems. <i>Progress in Materials Science</i> , 1998 , 43, 365-520	42.2	738
915	A Stable Quasicrystal in Al-Cu-Fe System. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, L1505-L1507	1.4	707
914	Amorphous Zr‐Al‐TM (TM=Co, Ni, Cu) Alloys with Significant Supercooled Liquid Region of Over 100 K. <i>Materials Transactions, JIM</i> , 1991 , 32, 1005-1010		690
913	Al‐La‐Ni Amorphous Alloys with a Wide Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1989 , 30, 965-972		655
912	Glass-forming ability of alloys. <i>Journal of Non-Crystalline Solids</i> , 1993 , 156-158, 473-480	3.9	553
911	Calculations of Mixing Enthalpy and Mismatch Entropy for Ternary Amorphous Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1372-1378		533
910	New Amorphous Mg-Ce-Ni Alloys with High Strength and Good Ductility. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L2248-L2251	1.4	459
909	Cobalt-based bulk glassy alloy with ultrahigh strength and soft magnetic properties. <i>Nature Materials</i> , 2003 , 2, 661-3	27	446
908	Thermal and Magnetic Properties of Bulk Fe-Based Glassy Alloys Prepared by Copper Mold Casting. <i>Materials Transactions, JIM</i> , 1995 , 36, 1427-1433		398
907	Direct observation of local atomic order in a metallic glass. <i>Nature Materials</i> , 2011 , 10, 28-33	27	391
906	Bulk amorphous alloys with high mechanical strength and good soft magnetic properties in Fe-M-B (TM=IV-VIII group transition metal) system. <i>Applied Physics Letters</i> , 1997 , 71, 464-466	3.4	366
905	Soft magnetic properties of nanocrystalline bcc Fe-Zr-B and Fe-M-B-Cu (M=transition metal) alloys with high saturation magnetization (invited). <i>Journal of Applied Physics</i> , 1991 , 70, 6232-6237	2.5	364
904	Preparation of Bulk Glassy Pd40Ni10Cu30P20 Alloy of 40 mm in Diameter by Water Quenching. <i>Materials Transactions, JIM</i> , 1996 , 37, 181-184		359

903	Fe-Based Ferromagnetic Glassy Alloys with Wide Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1995 , 36, 1180-1183		352
902	Aluminum-Based Amorphous Alloys with Tensile Strength above 980 MPa (100 kg/mm ²). <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L479-L482	1.4	334
901	Excess free volume in metallic glasses measured by X-ray diffraction. <i>Acta Materialia</i> , 2005 , 53, 1611-1618	1.4	313
900	Production of Amorphous Cylinder and Sheet of La ₅₅ Al ₂₅ Ni ₂₀ Alloy by a Metallic Mold Casting Method. <i>Materials Transactions, JIM</i> , 1990 , 31, 425-428		309
899	Fabrication of Bulk Glassy Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ Alloy of 30 mm in Diameter by a Suction Casting Method. <i>Materials Transactions, JIM</i> , 1996 , 37, 185-187		301
898	Novel hexagonal structure and ultrahigh strength of magnesium solid solution in the Mg ₇₀ Zn ₃₀ system. <i>Journal of Materials Research</i> , 2001 , 16, 1894-1900	2.5	299
897	Ultrahigh Tensile Strengths of Al ₈₈ Y ₂ Ni ₉ M ₁ (M=Mn or Fe) Amorphous Alloys Containing Finely Dispersed fcc-Al Particles. <i>Materials Transactions, JIM</i> , 1990 , 31, 747-749		287
896	Preparation and Thermal Stability of Bulk Amorphous Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Alloy Cylinder of 72 mm in Diameter. <i>Materials Transactions, JIM</i> , 1997 , 38, 179-183		286
895	Bulk amorphous and nanocrystalline alloys with high functional properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 1-10	5.3	270
894	Effect of strain rate on compressive behavior of a Pd ₄₀ Ni ₄₀ P ₂₀ bulk metallic glass. <i>Intermetallics</i> , 2002 , 10, 1071-1077	3.5	260
893	Thermal and Mechanical Properties of Ti-Ni-Cu-Sn Amorphous Alloys with a Wide Supercooled Liquid Region before Crystallization. <i>Materials Transactions, JIM</i> , 1998 , 39, 1001-1006		258
892	Recent Progress in Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 1892-1906	1.3	254
891	Nanoporous Metals by Dealloying Multicomponent Metallic Glasses. <i>Chemistry of Materials</i> , 2008 , 20, 4548-4550	9.6	248
890	Extraordinary plasticity of ductile bulk metallic glasses. <i>Physical Review Letters</i> , 2006 , 96, 245502	7.4	248
889	New Amorphous Alloys with Good Ductility in Al-Y-M and Al-La-M (M=Fe, Co, Ni or Cu) Systems. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L280-L282	1.4	247
888	Bulk Nd-Fe-Al Amorphous Alloys with Hard Magnetic Properties. <i>Materials Transactions, JIM</i> , 1996 , 37, 99-108		244
887	Nanoporous PdNi Bimetallic Catalyst with Enhanced Electrocatalytic Performances for Electro-oxidation and Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2011 , 21, 4364-4370	15.6	227
886	Formation, Thermal Stability and Mechanical Properties of Cu-Zr-Al Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 2921-2925	1.3	217

885	Rapid Degradation of Azo Dye by Fe-Based Metallic Glass Powder. <i>Advanced Functional Materials</i> , 2012 , 22, 2567-2570	15.6	214
884	Recent progress in bulk glassy, nanoquasicrystalline and nanocrystalline alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 16-30 ⁵³		214
883	High Mechanical Strengths of Mg–Ni–Y and Mg–Cu–Y Amorphous Alloys with Significant Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1990 , 31, 929-934		212
882	Ferromagnetic bulk amorphous alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998 , 29, 1779-1793	2.3	208
881	Formation, Thermal Stability and Mechanical Properties of Cu-Zr and Cu-Hf Binary Glassy Alloy Rods. <i>Materials Transactions</i> , 2004 , 45, 584-587	1.3	196
880	Superhigh strength and good soft-magnetic properties of (Fe,Co)B ₂ Si ₂ Nb bulk glassy alloys with high glass-forming ability. <i>Applied Physics Letters</i> , 2004 , 85, 4911-4913	3.4	186
879	Glass-Forming Ability of Bulk Pd ₄₀ Ni ₁₀ Cu ₃₀ P ₂₀ Alloy. <i>Materials Transactions, JIM</i> , 1996 , 37, 1531-1539		183
878	New Stable Icosahedral Al-Cu-Ru and Al-Cu-Os Alloys. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L1587-L1590	1.4	182
877	New Bulk Metallic Glasses for Applications as Magnetic-Sensing, Chemical, and Structural Materials. <i>MRS Bulletin</i> , 2007 , 32, 651-658	3.2	180
876	Effect of Additional Elements on Glass Transition Behavior and Glass Formation Tendency of Zr–Al–Cu–Ni Alloys. <i>Materials Transactions, JIM</i> , 1995 , 36, 1420-1426		179
875	Increase in Mechanical Strength of Al–Y–Ni Amorphous Alloys by Dispersion of Nanoscale fcc-Al Particles. <i>Materials Transactions, JIM</i> , 1991 , 32, 331-338		178
874	Stable Decagonal Al–Co–Ni and Al–Co–Cu Quasicrystals. <i>Materials Transactions, JIM</i> , 1989 , 30, 463-473		177
873	New Fe–Co–Ni–Zr–B Amorphous Alloys with Wide Supercooled Liquid Regions and Good Soft Magnetic Properties. <i>Materials Transactions, JIM</i> , 1997 , 38, 359-362		176
872	Ti-based amorphous alloys with a wide supercooled liquid region. <i>Materials Letters</i> , 1994 , 19, 131-135	3.3	176
871	Preparation of Bulky Amorphous Zr–Al–Co–Ni–Cu Alloys by Copper Mold Casting and Their Thermal and Mechanical Properties. <i>Materials Transactions, JIM</i> , 1995 , 36, 391-398		176
870	Dynamic response of a Pd ₄₀ Ni ₄₀ P ₂₀ bulk metallic glass in tension. <i>Scripta Materialia</i> , 2002 , 46, 43-47	5.6	173
869	Low core losses of nanocrystalline FeMB (M=Zr, Hf, or Nb) alloys. <i>Journal of Applied Physics</i> , 1993 , 74, 3316-3322	2.5	173
868	Ductility of bulk nanocrystalline composites and metallic glasses at room temperature. <i>Applied Physics Letters</i> , 2000 , 77, 46-48	3.4	172

867	Superplastic nanoforming of Pd-based amorphous alloy. <i>Scripta Materialia</i> , 2001 , 44, 1541-1545	5.6	171
866	Formation of Icosahedral Quasicrystalline Phase in Zr–Al–Ni–Cu–M (M=Ag, Pd, Au or Pt) Systems. <i>Materials Transactions, JIM</i> , 1999 , 40, 1181-1184		171
865	Mg–Ni–La Amorphous Alloys with a Wide Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1989 , 30, 378-381		169
864	Superplastic deformation of Zr65Al10Ni10Cu15 metallic glass. <i>Scripta Materialia</i> , 1997 , 37, 431-436	5.6	163
863	New Bulk Glassy Ni-Based Alloys with High Strength of 3000 MPa. <i>Materials Transactions</i> , 2002 , 43, 708-711		162
862	Full strength compacts by extrusion of glassy metal powder at the supercooled liquid state. <i>Applied Physics Letters</i> , 1995 , 67, 2008-2010	3.4	156
861	Deformation behavior of Zr-based bulk nanocrystalline amorphous alloys. <i>Physical Review B</i> , 2000 , 61, R3761-R3763	3.3	154
860	New Amorphous Al-Y, Al-La and Al-Ce Alloys Prepared by Melt Spinning. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L736-L739	1.4	154
859	Deformation behavior of Zr65Al10Ni10Cu15 glassy alloy with wide supercooled liquid region. <i>Applied Physics Letters</i> , 1996 , 69, 1208-1210	3.4	151
858	Mg-based amorphous alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 173, 1-8	5.3	150
857	Dealloying by metallic melt. <i>Materials Letters</i> , 2011 , 65, 1076-1078	3.3	148
856	Soft Magnetic Bulk Glassy Fe-B-Si-Nb Alloys with High Saturation Magnetization above 1.5 T. <i>Materials Transactions</i> , 2002 , 43, 766-769	1.3	147
855	Enhancement of room-temperature plasticity in a bulk metallic glass by finely dispersed porosity. <i>Applied Physics Letters</i> , 2005 , 86, 251907	3.4	141
854	Amorphous (Ti,Zr, Hf)?Ni?Cu ternary alloys with a wide supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 181-182, 1423-1426	5.3	135
853	Ultrahigh Mechanical Strengths of Al88Y2Ni10−xMx (M=Mn, Fe or Co) Amorphous Alloys Containing Nanoscale fcc-Al Particles. <i>Materials Transactions, JIM</i> , 1991 , 32, 599-608		134
852	Slowly-Cooled Bulk Amorphous Alloys. <i>Materials Science Forum</i> , 1995 , 179-181, 691-700	0.4	131
851	Synthesis and Mechanical Properties of Bulk Amorphous Zr–Al–Ni–Cu Alloys Containing ZrC Particles. <i>Materials Transactions, JIM</i> , 1997 , 38, 793-800		130
850	High-strength aluminum alloys containing nanoquasicrystalline particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 286, 1-10	5.3	130

849	Fabrications and mechanical properties of bulk amorphous, nanocrystalline, nanoquasicrystalline alloys in aluminum-based system. <i>Journal of Light Metals</i> , 2001 , 1, 31-41		126
848	New bulk amorphous Fe _{1-x} (Co,Ni) _x M ₂ B (M=Zr,Hf,Nb,Ta,Mo,W) alloys with good soft magnetic properties. <i>Journal of Applied Physics</i> , 1998 , 83, 6326-6328	2.5	126
847	Investigation of Ti _{1-x} Be _x Co bulk alloys with high strength and enhanced ductility. <i>Acta Materialia</i> , 2005 , 53, 2009-2017	8.4	125
846	Hydrogen permeation and structural features of melt-spun Ni _{1-x} Nb _x Zr amorphous alloys. <i>Acta Materialia</i> , 2005 , 53, 3703-3711	8.4	124
845	Bulk Amorphous Ni _{75-x} Nb ₅ M _x P _{20-y} By (M=Cr, Mo) Alloys with Large Supercooling and High Strength. <i>Materials Transactions, JIM</i> , 1999 , 40, 1130-1136		121
844	Cu-based bulk glassy alloys with high tensile strength of over 2000 MPa. <i>Journal of Non-Crystalline Solids</i> , 2002 , 304, 200-209	3.9	119
843	Flux Treated Pd-Cu-Ni-P Amorphous Alloy Having Low Critical Cooling Rate. <i>Materials Transactions, JIM</i> , 1997 , 38, 464-472		118
842	The world's biggest glassy alloy ever made. <i>Intermetallics</i> , 2012 , 30, 19-24	3.5	117
841	Thermal Stability and Mechanical Strength of Bulk Glassy Ni-Nb-Ti-Zr Alloys. <i>Materials Transactions</i> , 2002 , 43, 1952-1956	1.3	116
840	Newtonian to non-Newtonian master flow curves of a bulk glass alloy Pd ₄₀ Ni ₁₀ Cu ₃₀ P ₂₀ . <i>Applied Physics Letters</i> , 1998 , 73, 3665-3667	3.4	116
839	Thermal Stability and Mechanical Properties of Mg-Y-Cu-M (M = Ag, Pd) Bulk Amorphous Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1460-1462		115
838	Thermal and Mechanical Properties of Cu-Based Cu-Zr-Ti Bulk Glassy Alloys. <i>Materials Transactions</i> , 2001 , 42, 1149-1151	1.3	114
837	Superplasticity in Pd ₄₀ Ni ₄₀ P ₂₀ metallic glass. <i>Scripta Materialia</i> , 1998 , 39, 301-306	5.6	113
836	Preparation of Ti-Cu-Ni-Si-B Amorphous Alloys with a Large Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1999 , 40, 301-306		113
835	Nano-fabrication with metallic glass-an exotic material for nano-electromechanical systems. <i>Nanotechnology</i> , 2007 , 18, 035302	3.4	112
834	New Cu-Zr-based bulk metallic glasses with large diameters of up to 1.5cm. <i>Scripta Materialia</i> , 2006 , 55, 711-713	5.6	111
833	Ti-based amorphous alloys with a large supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 771-774	5.3	109
832	Direct observation of icosahedral cluster in Zr ₇₀ Pd ₃₀ binary glassy alloy. <i>Applied Physics Letters</i> , 2001 , 79, 412-414	3.4	108

831	Improvement of Mechanical Properties by Precipitation of Nanoscale Compound Particles in Zr-Cu-Pd-Al Amorphous Alloys. <i>Materials Transactions, JIM</i> , 1997 , 38, 1040-1046		106
830	Preparation and Mechanical Properties of Zr-based Bulk Nanocrystalline Alloys Containing Compound and Amorphous Phases. <i>Materials Transactions, JIM</i> , 1999 , 40, 42-51		106
829	Fabrication of Bulky Zr-Based Glassy Alloys by Suction Casting into Copper Mold. <i>Materials Transactions, JIM</i> , 1995 , 36, 1184-1187		106
828	Stabilization and high strain-rate superplasticity of metallic supercooled liquid. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 267, 171-183	5.3	105
827	Fabrication of porous Zr-Cu-Ni bulk metallic glass by spark plasma sintering process. <i>Scripta Materialia</i> , 2006 , 55, 687-690	5.6	102
826	Developments and Applications of Bulk Glassy Alloys in Late Transition Metal Base System. <i>Materials Transactions</i> , 2006 , 47, 1275-1285	1.3	102
825	Thermal Stability and Soft Magnetic Properties of Co-Fe-M-B (M=Nb, Zr) Amorphous Alloys with Large Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 2000 , 41, 1256-1262		101
824	New Amorphous Alloys with Good Ductility in Al-Ce-M (M=Nb, Fe, Co, Ni or Cu) Systems. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L1796-L1799	1.4	100
823	Excellent capability in degrading azo dyes by MgZn-based metallic glass powders. <i>Scientific Reports</i> , 2012 , 2, 418	4.9	99
822	High Strength and Good Ductility of Bulk Quasicrystalline Base Alloys in Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{17.5} -xPdx System. <i>Materials Transactions, JIM</i> , 1999 , 40, 1137-1143		99
821	Crystallization Behavior of Amorphous Fe ₉₀ -XNb ₁₀ BX (X=10 and 30) Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1526-1529		98
820	A new criterion for predicting the glass-forming ability of bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 207-219	5.7	96
819	The micro-formability of Zr-based amorphous alloys in the supercooled liquid state and their application to micro-dies. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 64-69	5.3	94
818	Glass Transition Behavior and Viscous Flow Working of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Amorphous Alloy. <i>Materials Transactions, JIM</i> , 1999 , 40, 64-71		94
817	Nanoporous CuS with excellent photocatalytic property. <i>Scientific Reports</i> , 2015 , 5, 18125	4.9	93
816	Ferrous and Nonferrous Bulk Amorphous Alloys. <i>Materials Science Forum</i> , 1998 , 269-272, 855-864	0.4	93
815	FeSiBP bulk metallic glasses with high magnetization and excellent magnetic softness. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 2499-2503	2.8	91
814	Hydrogen Permeation Characteristics of Melt-Spun Ni-Nb-Zr Amorphous Alloy Membranes. <i>Materials Transactions</i> , 2003 , 44, 1885-1890	1.3	91

813	Hard Magnetic Bulk Amorphous Nd–Fe–Al Alloys of 12 mm in Diameter Made by Suction Casting. <i>Materials Transactions, JIM</i> , 1996 , 37, 636-640		91
812	Long-Period Hexagonal Structures in Melt-Spun Mg ₉₇ Ln ₂ Zn ₁ (Ln=Lanthanide Metal) Alloys. <i>Materials Transactions</i> , 2003 , 44, 2151-2156	1.3	90
811	Newtonian viscosity of supercooled liquid in a Pd ₄₀ Ni ₄₀ P ₂₀ metallic glass. <i>Applied Physics Letters</i> , 2000 , 77, 1114-1116	3.4	90
810	Mechanical Properties, Fracture Mode and Deformation Behavior of Al ₇₀ Pd ₂₀ Mn ₁₀ Single-Quasicrystal. <i>Materials Transactions, JIM</i> , 1993 , 34, 135-145		90
809	Formation and bioactivation of Zr–Al–Co bulk metallic glasses. <i>Journal of Materials Research</i> , 2009 , 24, 2941-2948	2.5	89
808	Nanocrystalline composites with high strength obtained in ZrTiNiCuAl bulk amorphous alloys. <i>Applied Physics Letters</i> , 1999 , 75, 340-342	3.4	89
807	Fabrication and novel properties of nanostructured Al base alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 179-180, 57-61	5.3	89
806	The effect of Ni substitution on the glass-forming ability and mechanical properties of MgCuPd metallic glass alloys. <i>Journal of Alloys and Compounds</i> , 2005 , 387, 134-138	5.7	88
805	Nearly full density Ni _{52.5} Nb ₁₀ Zr ₁₅ Ti ₁₅ Pt _{7.5} bulk metallic glass obtained by spark plasma sintering of gas atomized powders. <i>Applied Physics Letters</i> , 2007 , 90, 241902	3.4	87
804	Excellent soft-ferromagnetic bulk glassy alloys with high saturation magnetization. <i>Applied Physics Letters</i> , 2006 , 88, 131907	3.4	87
803	Multicomponent Fe-Based Glassy Alloys with Wide Supercooled Liquid Region before Crystallization. <i>Materials Transactions, JIM</i> , 1995 , 36, 1282-1285		87
802	Mechanical properties and structural features of novel Fe-based bulk metallic glasses with unprecedented plasticity. <i>Scientific Reports</i> , 2014 , 4, 6233	4.9	85
801	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. <i>Journal of Materials Research</i> , 2007 , 22, 1346-1353	2.5	84
800	Newtonian and non-Newtonian viscosity of supercooled liquid in metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 674-678	5.3	84
799	Synthesis of stable quasicrystalline particle-dispersed Al base composite alloys. <i>Journal of Materials Research</i> , 1993 , 8, 5-7	2.5	84
798	Cu ₅₁ Ti ₁₄ Ag ₁₁ Al bulk metallic glass composites and their properties. <i>Acta Materialia</i> , 2005 , 53, 2037-2048	8.4	83
797	Formation, thermal stability and electrical resistivity of quasicrystalline phase in rapidly quenched Al–Cr alloys. <i>Journal of Materials Science</i> , 1987 , 22, 1758-1768	4.3	83
796	Cast structure and mechanical properties of ZrCuNiAl bulk glassy alloys. <i>Intermetallics</i> , 2002 , 10, 1113-1124	3.4	82

795	Ferromagnetic bulk glassy alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 215-216, 246-252	2.8	82
794	Nanocrystalline aluminum bulk alloys with a high strength of 1420 MPa produced by the consolidation of amorphous powders. <i>Scripta Materialia</i> , 2001 , 44, 1599-1604	5.6	81
793	High-Strain-Rate Superplasticity due to Newtonian Viscous Flow in La ₅₅ Al ₂₅ Ni ₂₀ Metallic Glass. <i>Materials Transactions, JIM</i> , 1999 , 40, 794-803		81
792	Formation and mechanical properties of Ni-based Ni ₄₀ Al ₄₀ Si ₂₀ bulk glassy alloys. <i>Scripta Materialia</i> , 2003 , 48, 641-645	5.6	80
791	Application of Zr-Based Bulk Glassy Alloys to Golf Clubs. <i>Materials Transactions</i> , 2001 , 42, 678-681	1.3	80
790	Effect of Additional Elements (M) on the Thermal Stability of Supercooled Liquid in Fe ₇₂ -xAl ₅ Ga ₂ P ₁₁ C ₆ B ₄ M _x Glassy Alloys. <i>Materials Transactions, JIM</i> , 1996 , 37, 32-38		80
789	A Stable Decagonal Quasicrystal in the Al-Cu-Co System. <i>Materials Transactions, JIM</i> , 1989 , 30, 300-304		80
788	High-strength binary Ti-Fe bulk alloys with enhanced ductility. <i>Journal of Materials Research</i> , 2004 , 19, 3600-3606	2.5	79
787	Formation, Thermal Stability and Mechanical Properties of Ca-Based Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 81-84	1.3	78
786	Formation of metal-metal type aluminum-based amorphous alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988 , 19, 1369-1371		78
785	A nanoporous metal phosphide catalyst for bifunctional water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5574-5579	13	76
784	Origin of Low Coercivity of Fe-(Al, Ga)-(P, C, B, Si, Ge) Bulk Glassy Alloys. <i>Materials Transactions</i> , 2003 , 44, 2020-2024	1.3	76
783	New Ti-Based Bulk Glassy Alloys with High Glass-Forming Ability and Superior Mechanical Properties. <i>Materials Transactions</i> , 2004 , 45, 3223-3227	1.3	76
782	Corrosion Behavior of Zr-(Nb)-Al-Ni-Cu Glassy Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1490-1494		76
781	Study of the structural relaxation-induced embrittlement of hypoeutectic Zr ₄₀ Al ternary bulk glassy alloys. <i>Acta Materialia</i> , 2008 , 56, 6097-6108	8.4	75
780	Preparation of Cu ₃₆ Zr ₄₈ Ag ₈ Al ₈ Bulk Metallic Glass with a Diameter of 25 mm by Copper Mold Casting. <i>Materials Transactions</i> , 2007 , 48, 629-631	1.3	75
779	Fe-B-Si-Nb Bulk Metallic Glasses with High Strength above 4000 MPa and Distinct Plastic Elongation. <i>Materials Transactions</i> , 2004 , 45, 1214-1218	1.3	75
778	Glass Transition Behavior of Al-Y-Ni and Al-Ce-Ni Amorphous Alloys. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L1579-L1582	1.4	75

777	Novel Hexagonal Structure of Ultra-High Strength Magnesium-Based Alloys. <i>Materials Transactions</i> , 2002 , 43, 580-584	1-3	74
776	Bulk nanocomposite permanent magnets produced by crystallization of (Fe,Co)(Nd,Dy)B bulk glassy alloy. <i>Applied Physics Letters</i> , 2002 , 80, 1610-1612	3-4	73
775	Ferromagnetic CoFeZrB amorphous alloys with glass transition and good high-frequency permeability. <i>Applied Physics Letters</i> , 1998 , 73, 744-746	3-4	73
774	Thermal stabilities and discharge capacities of melt-spun MgNi-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2002 , 339, 230-235	5-7	72
773	Soft magnetic FeSiBPC bulk metallic glasses without any glass-forming metal elements. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 616-619	5-7	71
772	Extremely low critical cooling rates of new Pd-Cu-P base amorphous alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 226-228, 401-405	5-3	70
771	Effects of Ti on the Thermal Stability and Glass-Forming Ability of Ni-Nb Glassy Alloy. <i>Materials Transactions</i> , 2002 , 43, 2342-2345	1-3	70
770	Low Core Loss of a bcc Fe ₈₆ Zr ₇ B ₆ Cu ₁ Alloy with Nanoscale Grain Size. <i>Materials Transactions, JIM</i> , 1991 , 32, 551-556		70
769	Chemical order in an Al-Pd-Mn icosahedral quasicrystal. <i>Philosophical Magazine Letters</i> , 1990 , 62, 95-100	1	70
768	Ductile Al-Ni-Zr amorphous alloys with high mechanical strength. <i>Journal of Materials Science Letters</i> , 1988 , 7, 805-807		70
767	Formation of Bulk Glassy Fe ₇₅ Co ₁₀ Cr ₅ Mo ₅ C ₁₅ B ₁₀ Alloys and Their Corrosion Behavior. <i>Journal of Materials Research</i> , 2002 , 17, 701-704	2-5	69
766	Preparation of Bulk Pr-Fe-Al Amorphous Alloys and Characterization of Their Hard Magnetic Properties. <i>Materials Transactions, JIM</i> , 1996 , 37, 1731-1740		69
765	Multicomponent Co-based Amorphous Alloys with Wide Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1996 , 37, 1332-1336		69
764	Synthesis and properties of CuZrAgAl glassy alloys with high glass-forming ability. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 92-96	3-1	68
763	Formation of an Icosahedral Quasicrystalline Phase in Zr ₆₅ Al _{7.5} Ni ₁₀ M _{17.5} (M = Pd, Au or Pt) Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 362-365		68
762	CoFeBSiNb bulk glassy alloys with superhigh strength and extremely low magnetostriction. <i>Applied Physics Letters</i> , 2006 , 88, 011901	3-4	67
761	Free volume kinetics during sub-T _g structural relaxation of a bulk Pd ₄₀ Ni ₄₀ P ₂₀ metallic glass. <i>Applied Physics Letters</i> , 2006 , 88, 131906	3-4	67
760	Formation and mechanical properties of CuBfNi bulk glassy alloys [Article Retracted]. <i>Journal of Materials Research</i> , 2001 , 16, 2836-2844	2-5	67

759	Investigation of glass-forming ability, deformation and corrosion behavior of Ni-free Ti-based BMG alloys designed for application as dental implants. <i>Materials Science and Engineering C</i> , 2009 , 29, 322-327	8.3	65
758	High-strength Cu-based crystal-glassy composite with enhanced ductility. <i>Applied Physics Letters</i> , 2004 , 84, 1088-1089	3.4	65
757	Structural Study of Pd-Based Amorphous Alloys with Wide Supercooled Liquid Region by Anomalous X-ray Scattering. <i>Materials Transactions, JIM</i> , 1999 , 40, 491-497		65
756	Fabrication, Thermal Stability and Mechanical Properties of Porous Bulk Glassy Pd-Cu-Ni-P Alloys. <i>Materials Transactions</i> , 2003 , 44, 2228-2231	1.3	64
755	High-strength aluminum- and zirconium-based alloys containing nanoquasicrystalline particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 294-296, 727-735	5.3	64
754	Thermal Stability and Magnetic Properties of Bulk Amorphous Fe‐Al‐Ga‐P‐C‐B‐Si Alloys. <i>Materials Transactions, JIM</i> , 1997 , 38, 189-196		63
753	Superplastic micro/nano-formability of La ₆₀ Al ₂₀ Ni ₁₀ Co ₅ Cu ₅ amorphous alloy in supercooled liquid state. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 716-720	5.3	63
752	Soft Magnetic Properties and Wide Supercooled Liquid Region of Fe‐P‐B‐Si Base Amorphous Alloys. <i>Materials Transactions, JIM</i> , 1996 , 37, 1715-1721		63
751	Bendable bulk metallic glass: Effects of a thin, adhesive, strong, and ductile coating. <i>Acta Materialia</i> , 2012 , 60, 3226-3238	8.4	62
750	High strength and ductile binary TiBe composite alloy. <i>Journal of Alloys and Compounds</i> , 2004 , 384, L1-L35.7		62
749	Bulk Glassy Fe-Ga-P-C-B-Si Alloys with High Glass-Forming Ability, High Saturation Magnetization and Good Soft Magnetic Properties. <i>Materials Transactions</i> , 2002 , 43, 1235-1239	1.3	62
748	Bulk Amorphous Fe‐Ga‐P‐B‐C Alloys with a Large Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 2000 , 41, 873-876		62
747	Wear resistivity of super-precision microgear made of Ni-based metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 149-154	5.3	60
746	Formation, ductile deformation behavior and soft-magnetic properties of (Fe,Co,Ni)B ₅₀ Nb bulk glassy alloys. <i>Intermetallics</i> , 2007 , 15, 9-16	3.5	60
745	Thermal Stability and Mechanical Properties of Glassy and Amorphous Ni-Nb-Zr Alloys Produced by Rapid Solidification. <i>Materials Transactions</i> , 2003 , 44, 1167-1171	1.3	60
744	New Fe-based bulk glassy alloys with high saturated magnetic flux density of 1.4-1.5 T. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 302-306	5.3	60
743	New Ti-Based Bulk Metallic Glasses with Significant Plasticity. <i>Materials Transactions</i> , 2005 , 46, 2218-2220	3.3	60
742	Novel applications of bulk metallic glass for industrial products. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3615-3621	3.9	59

741	Synthesis and magnetic properties of FePtB nanocomposite permanent magnets with low Pt concentrations. <i>Applied Physics Letters</i> , 2004 , 85, 4998-5000	3-4	59
740	Formation of Porous Pd-based Bulk Glassy Alloys by a High Hydrogen Pressure Melting-Water Quenching Method and Their Mechanical Properties. <i>Materials Transactions</i> , 2004 , 45, 2761-2765	1-3	59
739	Changes in Microstructure and Soft Magnetic Properties of an Fe ₈₆ Zr ₇ B ₆ Cu ₁ Amorphous Alloy upon Crystallization. <i>Materials Transactions, JIM</i> , 1991 , 32, 961-968		59
738	Nanoscale icosahedral quasicrystalline phase formation in a rapidly solidified Zr ₈₀ Pt ₂₀ binary alloy. <i>Applied Physics Letters</i> , 2000 , 77, 73-75	3-4	58
737	Preparation of Bulky Zr-Based Amorphous Alloys by a Zone Melting Method. <i>Materials Transactions, JIM</i> , 1994 , 35, 923-926		57
736	Production of Zr ₅₅ Cu ₃₀ Ni ₅ Al ₁₀ Glassy Alloy Rod of 30 mm in Diameter by a Cap-Cast Technique. <i>Materials Transactions</i> , 2007 , 48, 3190-3192	1-3	56
735	Ultrahigh strength Al-based amorphous alloys containing Sc. <i>Journal of Materials Research</i> , 2004 , 19, 1539-1543	2-5	56
734	Glass formation, corrosion behavior and mechanical properties of bulk glassy Cu ₄₀ Ti ₁₀ Nb alloys. <i>Acta Materialia</i> , 2005 , 53, 3903-3911	8-4	56
733	Relationship Between the Liquidus Surface and Structures of Zr-Cu-Al Bulk Amorphous Alloys. <i>Materials Transactions</i> , 2002 , 43, 575-579	1-3	56
732	Precipitation of icosahedral quasicrystalline phase in Hf ₆₅ Al _{7.5} Ni ₁₀ Cu _{12.5} Pd ₅ metallic glass. <i>Applied Physics Letters</i> , 2000 , 77, 528-530	3-4	56
731	A nanostructured skeleton catalyst: Suzuki-coupling with a reusable and sustainable nanoporous metallic glass Pd-catalyst. <i>Chemical Communications</i> , 2011 , 47, 5985-7	5-8	55
730	Thermal and Magnetic Properties of Fe ₅₆ Co ₇ Ni ₇ Zr ₁₀ -xNb _x B ₂₀ Amorphous Alloys with Wide Supercooled Liquid Range. <i>Materials Transactions, JIM</i> , 1997 , 38, 577-582		55
729	Icosahedral quasicrystalline phase formation in Zr-Al-Ni-Cu glassy alloys by addition of Nb, Ta and V elements. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, L73-L78	1-8	55
728	Soft Magnetic Properties of Fe-Based Bulk Amorphous Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1471-1477		55
727	Bulk Amorphous Co-Ni-Based Alloys with a Large Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 2000 , 41, 539-542		55
726	Mechanical properties of a Ni ₆₀ Pd ₂₀ P ₁₇ B ₃ bulk glassy alloy at cryogenic temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 498, 475-481	5-3	54
725	Temperature and thickness driven spin-reorientation transition in amorphous Co-Fe-Ta-B thin films. <i>Physical Review B</i> , 2006 , 73,	3-3	54
724	Effects of Si and Mo additions on glass-forming in FeGaPCB bulk glassy alloys with high saturation magnetization. <i>Physical Review B</i> , 2006 , 73,	3-3	54

723	Fabrication, properties and applications of bulk glassy alloys in late transition metal-based systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 441, 18-25	5.3	54
722	Electronegativity of the constituent rare-earth metals as a factor stabilizing the supercooled liquid region in Al-based metallic glasses. <i>Applied Physics Letters</i> , 2001 , 79, 3410-3412	3.4	53
721	Magnetic properties and core losses of nanocrystalline Fe ₂ M ₂ B (M = Zr, Hf or Nb) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 179-180, 127-131	5.3	53
720	A novel Ti-based nanoglass composite with submicron-nanometer-sized hierarchical structures to modulate osteoblast behaviors. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2568-2574	7.3	52
719	The effect of atomic size on the stability of supercooled liquid for amorphous (Ti, Zr, Hf) ₆₅ Ni ₂₅ Al ₁₀ and (Ti, Zr, Hf) ₆₅ Cu ₂₅ Al ₁₀ alloys. <i>Materials Letters</i> , 1993 , 15, 379-382	3.3	52
718	Icosahedral, Decagonal and Amorphous Phases in Al–Cu–M (M=Transition Metal) Systems. <i>Materials Transactions, JIM</i> , 1989 , 30, 666-676		52
717	New Amorphous Al–Ln (Ln=Pr, Nd, Sm or Gd) Alloys Prepared by Melt Spinning. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L1583-L1586	1.4	52
716	Corrosion Behavior of Cu–Zr–Ti–Nb Bulk Glassy Alloys. <i>Materials Transactions</i> , 2003 , 44, 749-753	1.3	51
715	Fracture Toughness of Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ Bulk Metallic Glass by 3-Point Bend Testing. <i>Materials Transactions</i> , 2005 , 46, 1725-1732	1.3	51
714	Evolution of Mechanical Properties of Cast Zr ₅₀ Cu ₄₀ Al ₁₀ Glassy Alloys by Structural Relaxation. <i>Materials Transactions</i> , 2005 , 46, 2755-2761	1.3	51
713	Effects of Chromium on the Glass Formation and Corrosion Behavior of Bulk Glassy Fe–Cr–Mo–C–B Alloys. <i>Materials Transactions</i> , 2002 , 43, 2137-2142	1.3	51
712	Ni-free Ti-based bulk metallic glass with potential for biomedical applications produced by spark plasma sintering. <i>Intermetallics</i> , 2012 , 29, 99-103	3.5	50
711	On the new criterion to assess the glass-forming ability of metallic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 509, 23-30	5.3	50
710	FeNi-based bulk glassy alloys with superhigh mechanical strength and excellent soft-magnetic properties. <i>Applied Physics Letters</i> , 2006 , 89, 051912	3.4	50
709	Glass-Forming Ability and Mechanical Properties of the Ternary Cu–Zr–Al and Quaternary Cu–Zr–Al–Ag Bulk Metallic Glasses. <i>Materials Transactions</i> , 2007 , 48, 1626-1630	1.3	50
708	Nanoparticles with icosahedral symmetry in Cu-based bulk glass former induced by Pd addition. <i>Scripta Materialia</i> , 2003 , 48, 1325-1329	5.6	50
707	Formation and Thermal Stability of Ca–Mg–Ag–Cu Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 2578-2581	1.3	50
706	An amorphous nanoporous PdCuNi–S hybrid electrocatalyst for highly efficient hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 156-165	21.8	49

705	Effects of additional Ag on the thermal stability and glass-forming ability of CuZr binary glassy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 459, 330-336	5.3	49
704	Investigation of the stability of glassy state in the Zr- and Hf-based glassy alloys correlated with their transformation behavior. <i>Journal of Materials Research</i> , 2001 , 16, 3389-3401	2.5	49
703	A Large Tensile Elongation Induced by Crystallization in an Amorphous Al88Ni10Ce2 Alloy. <i>Materials Transactions, JIM</i> , 1992 , 33, 487-490		49
702	Excellent Thermal Stability and Bulk Glass Forming Ability of Fe-B-Nb-Y Soft Magnetic Metallic Glass. <i>Materials Transactions</i> , 2008 , 49, 506-512	1.3	48
701	Formation, corrosion behavior, and mechanical properties of bulk glassy ZrAlCoNb alloys. <i>Journal of Materials Research</i> , 2003 , 18, 1652-1658	2.5	48
700	Cutting Characteristics of Bulk Metallic Glass. <i>Materials Transactions</i> , 2005 , 46, 2856-2863	1.3	48
699	Preparation of Bulk Glassy Mg65Y10Cu15Ag5Pd5 Alloy of 12 mm in Diameter by Water Quenching. <i>Materials Transactions</i> , 2001 , 42, 543-545	1.3	48
698	A highly efficient electrocatalyst based on amorphous PdCu material for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18793-18800	13	47
697	Nanocrystallization of complex Fe23B6-type structure in glassy FeCoBSiNb alloy. <i>Intermetallics</i> , 2008 , 16, 491-497	3.5	47
696	Attempt to develop Ti-based amorphous alloys for biomaterials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 220-224	5.3	47
695	Bulk glassy Ni(Co)NbTiZr alloys with high corrosion resistance and high strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 368-371	5.3	47
694	Density, Thermal Stability and Mechanical Properties of Zr-Ti-Al-Cu-Ni Bulk Amorphous Alloys with High Al Plus Ti Concentrations. <i>Materials Transactions, JIM</i> , 1998 , 39, 857-862		47
693	Stress Overshoot in Stress-Strain Curves of Zr65Al10Ni10Cu15 Metallic Glass. <i>Materials Transactions, JIM</i> , 1999 , 40, 335-342		47
692	High Mechanical Strength of Al-(V, Cr, Mn)-(Fe, Co, Ni) Quasicrystalline Alloys Prepared by Rapid Solidification. <i>Materials Transactions, JIM</i> , 1996 , 37, 1287-1292		47
691	Cu-Rich Cu-Al-Ln (Ln=Ce or Nd) Amorphous Alloys. <i>Materials Transactions, JIM</i> , 1993 , 34, 82-84		47
690	Synchrotron X-ray radiation diffraction studies of thermal expansion, free volume change and glass transition phenomenon in Cu-based glassy and nanocomposite alloys on heating. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 1639-1645	3.9	46
689	High Tensile Strength Bulk Glassy Alloy Zr65Al10Ni10Cu15 Prepared by Extrusion of Atomized Glassy Powder. <i>Materials Transactions, JIM</i> , 1996 , 37, 70-77		46
688	Fillability and Imprintability of High-strength Ni-based Bulk Metallic Glass Prepared by the Precision Die-casting Technique. <i>Materials Transactions</i> , 2004 , 45, 1239-1244	1.3	45

687	Nanocrystal composites in Zr ₆₀ Nb ₁₀ Ti ₁₀ Al metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2000 , 270, 28-33	3.9	45
686	Impact Fracture Energy of Bulk Amorphous Zr ₅₅ Al ₁₀ Cu ₃₀ Ni ₅ Alloy. <i>Materials Transactions, JIM</i> , 1996 , 37, 1726-1729		45
685	The role of boron in nanocrystalline Fe ₇₀ Zr ₇ B soft magnetic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 179-180, 501-505	5.3	45
684	High specific strength Mg-based bulk metallic glass matrix composite highly ductilized by Ti dispersoid. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 494, 299-303	5.3	44
683	Mechanical Properties of Bulk Amorphous Zr ₆₀ Al ₁₀ Ni ₁₀ Cu ₁₅ Pd ₅ Alloys Containing Nanoscale Quasicrystalline Particles. <i>Materials Transactions, JIM</i> , 1999 , 40, 1382-1389		44
682	Production of Quasicrystalline Al-Pd-Mn Alloys with Large Single Domain Size. <i>Materials Transactions, JIM</i> , 1991 , 32, 1089-1097		44
681	Bulk Glassy Alloys: Historical Development and Current Research. <i>Engineering</i> , 2015 , 1, 185-191	9.7	43
680	Formation of metallic glass nanowires by gas atomization. <i>Nano Letters</i> , 2012 , 12, 2404-7	11.5	43
679	Bulk nanocomposite permanent magnets produced by crystallization of Fe _{66.5} Co ₁₀ Pr _{3.5} B ₂₀ bulk glassy alloy. <i>Journal of Applied Physics</i> , 2002 , 91, 8834	2.5	43
678	Solidification Analyses of Bulky Zr ₆₀ Al ₁₀ Ni ₁₀ Cu ₁₅ Pd ₅ Glass Produced by Casting into Wedge-Shape Copper Mold. <i>Materials Transactions, JIM</i> , 1995 , 36, 1276-1281		43
677	Increase of Mechanical Strength of a Mg ₈₅ Zn ₁₂ Ce ₃ Amorphous Alloy by Dispersion of Ultrafine hcp-Mg Particles. <i>Materials Transactions, JIM</i> , 1991 , 32, 875-878		43
676	Role of Alloying Additions in Glass Formation and Properties of Bulk Metallic Glasses. <i>Materials</i> , 2010 , 3, 5320-5339	3.5	42
675	Controlled formation and mechanical characterization of metallic glassy nanowires. <i>Advanced Materials</i> , 2010 , 22, 872-5	24	42
674	Stress overshoot in stress-strain curves of Zr ₆₅ Al ₁₀ Ni ₁₀ Cu ₁₅ metallic glass. <i>Applied Physics Letters</i> , 1997 , 71, 779-781	3.4	42
673	Fe-based bulk glassy alloy composite containing in situ formed (Fe,Co) and (Fe,Co) ₂₃ B ₆ microcrystalline grains. <i>Applied Physics Letters</i> , 2006 , 89, 101915	3.4	42
672	Synthesis of nanoporous CuO/TiO ₂ /Pd-NiO composite catalysts by chemical dealloying and their performance for methanol and ethanol electro-oxidation. <i>Journal of Power Sources</i> , 2017 , 362, 10-19	8.9	41
671	High-strength and ductile glassy-crystal Ni ₄₀ Ti ₄₀ Zr ₂₀ composite exhibiting stress-induced martensitic transformation. <i>Philosophical Magazine</i> , 2009 , 89, 2887-2901	1.6	41
670	Thermal stability and glass-forming ability of amorphous Nd-Al-TM (TM = Fe, Co, Ni or Cu) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 226-228, 393-396	5.3	41

669	Excellent soft-magnetic properties of (Fe,Co)Mo(P,C,B,Si) bulk glassy alloys with ductile deformation behavior. <i>Applied Physics Letters</i> , 2007 , 91, 234101	3.4	41
668	Structural and thermal investigations of a high-strength Cu-Zr-Ti-Co bulk metallic glass. <i>Philosophical Magazine Letters</i> , 2003 , 83, 191-201	1	41
667	Large-size ultrahigh strength Ni-based bulk metallic glassy matrix composites with enhanced ductility fabricated by spark plasma sintering. <i>Applied Physics Letters</i> , 2008 , 92, 121907	3.4	40
666	Gd ₁₀ Al and Gd ₁₀ NiAl bulk metallic glasses with high glass forming ability and good mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 457, 226-230	5.3	40
665	High-strength hypereutectic TiBeCo bulk alloy with good ductility. <i>Philosophical Magazine Letters</i> , 2004 , 84, 359-364	1	40
664	Influence of hydrostatic pressure during casting on as cast structure and mechanical properties in Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{17.5} Pd _x (x=0, 17.5) alloys. <i>Scripta Materialia</i> , 2004 , 51, 1063-1068	5.6	40
663	Al-Y-Ni amorphous powders prepared by high-pressure gas atomization. <i>Journal of Materials Science Letters</i> , 1988 , 7, 1287-1290		40
662	Recent Development and Applications of Bulk Glassy Alloys. <i>International Journal of Applied Glass Science</i> , 2010 , 1, 273-295	1.8	39
661	Bioactive titanate nanomesh layer on the Ti-based bulk metallic glass by hydrothermal-electrochemical technique. <i>Acta Biomaterialia</i> , 2009 , 5, 1367-73	10.8	39
660	Elastic and viscoelastic properties of glassy, quasicrystalline and crystalline phases in Zr ₆₅ Cu ₅ Ni ₁₀ Al _{7.5} Pd _{12.5} alloys. <i>Acta Materialia</i> , 2011 , 59, 2797-2806	8.4	39
659	Synthesis of ferromagnetic Fe-based bulk glassy alloys in the FeSiBPC system. <i>Journal of Alloys and Compounds</i> , 2009 , 473, 368-372	5.7	39
658	Formation, mechanical properties and corrosion resistance of TiBd base glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 1828-1832	3.9	39
657	Nanoquasicrystallization in Metallic Glasses. <i>Materials Transactions</i> , 2003 , 44, 1971-1977	1.3	39
656	Formation, Thermal Stability and Mechanical Properties of (Cu _{0.6} Zr _{0.3} Ti _{0.1}) _{100-x} M _x (M=Fe, Co, Ni) Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 3222-3226	1.3	39
655	Dynamic crystallization process in a supercooled liquid region of Cu ₄₀ Ti ₃₀ Ni ₁₅ Zr ₁₀ Sn ₅ amorphous alloy. <i>Journal of Non-Crystalline Solids</i> , 2000 , 261, 108-114	3.9	39
654	Hard Magnetic Properties of Nanocrystalline Fe-Nd-B Alloys Containing α -Fe and Intergranular Amorphous Phase. <i>Materials Transactions, JIM</i> , 1995 , 36, 676-685		39
653	Effect of Fe on the glass-forming ability, structure and devitrification behavior of ZrCuAl bulk glass-forming alloys. <i>Philosophical Magazine</i> , 2010 , 90, 1955-1968	1.6	38
652	Effect of Cu on nanocrystallization and plastic properties of FeSiBPCu bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2598-2602	5.3	38

651	Crystallization process and glass stability of an Fe ₄₈ Cr ₁₅ Mo ₁₄ C ₁₅ B ₆ Tm ₂ bulk metallic glass. <i>Physical Review B</i> , 2008 , 78,	3.3	38
650	Formation and mechanical properties of Cu ₄₅ Fe ₁₅ Al bulk glassy alloys with a large supercooled liquid region of over 90 K. <i>Journal of Materials Research</i> , 2003 , 18, 1435-1440	2.5	38
649	Soft Magnetic Properties of Nanocrystalline Fe ₇₀ Co ₁₀ B ₁₀ Nb ₁₀ Cu Alloys in Ribbon and Bulk Forms. <i>Journal of Materials Research</i> , 2003 , 18, 2799-2806	2.5	38
648	Relaxation and Crystallization Behavior of the Zr ₅₀ Cu ₄₀ Al ₁₀ Metallic Glass. <i>Materials Transactions</i> , 2005 , 46, 2886-2892	1.3	38
647	New Glassy Zr-Al-Fe and Zr-Al-Co Alloys with a Large Supercooled Liquid Region. <i>Materials Transactions</i> , 2002 , 43, 267-270	1.3	38
646	Formation, Thermal Stability and Mechanical Properties in Zr-Al-Co Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 2843-2846	1.3	38
645	Stability and nucleation behavior of glass-forming Pd ₄₀ Cu ₃₀ Ni ₁₀ P alloy with a critical cooling rate of 0.067 K/s. <i>Intermetallics</i> , 2002 , 10, 1141-1147	3.5	38
644	Ni-based bulk glassy alloys with large supercooled liquid region exceeding 90K. <i>Intermetallics</i> , 2005 , 13, 1166-1171	3.5	37
643	Formation of Bulk Glassy Ni-(Co-)Nb-Ti-Zr Alloys with High Corrosion Resistance. <i>Materials Transactions</i> , 2002 , 43, 1771-1773	1.3	37
642	Soft magnetic properties and microstructure of Fe ₈₄ Nb ₂ B ₁₄ Cu nanocrystalline alloys. <i>Materials & Design</i> , 2014 , 56, 227-231		36
641	Comparative analysis of glass-formation in binary, ternary, and multicomponent alloys. <i>Journal of Applied Physics</i> , 2010 , 108, 103511	2.5	36
640	Enhanced soft-magnetic and corrosion properties of Fe-based bulk glassy alloys with improved plasticity through the addition of Cr. <i>Journal of Alloys and Compounds</i> , 2008 , 462, 52-59	5.7	36
639	Superhigh strength and excellent soft-magnetic properties of [(Co _{1-x} Fe _x) _{0.75} B _{0.2} Si _{0.05}] ₉₆ Nb ₄ bulk glassy alloys. <i>Journal of Applied Physics</i> , 2006 , 100, 013515	2.5	36
638	Structural relaxation, glass-forming ability and mechanical properties of Mg ₄₀ Cu ₃₀ Ni ₁₀ Al ₂₀ alloys. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 729-735	3.9	36
637	Synthesis and Fundamental Properties of Cu-Based Bulk Glassy Alloys in Binary and Multi-component Systems. <i>Materials Transactions</i> , 2004 , 45, 1153-1162	1.3	36
636	Formation and Mechanical Strength of New Cu-Based Bulk Glassy Alloys with Large Supercooled Liquid Region. <i>Materials Transactions</i> , 2004 , 45, 1210-1213	1.3	36
635	Thermal Expansion and Specific Volume of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Alloy in Various States. <i>Materials Transactions, JIM</i> , 2000 , 41, 1432-1434		36
634	Fabrication of large-size Fe-based glassy cores with good soft magnetic properties by spark plasma sintering. <i>Journal of Materials Research</i> , 2003 , 18, 2115-2121	2.5	35

- 633 Development of Glassy Alloy Separators for a Proton Exchange Membrane Fuel Cell (PEMFC). *Materials Transactions*, **2005**, 46, 1706-1710 1.3 35
- 632 Magnetic properties of (Fe, Co)B₅Si₁₀Nb bulk glassy alloys with high glass-forming ability. *Journal of Applied Physics*, **2005**, 97, 10F913 2.5 35
- 631 Mg-based bulk glassy alloys with high strength above 900 MPa and plastic strain. *Journal of Materials Research*, **2005**, 20, 394-400 2.5 35
- 630 Strong influence of supercooled liquid on crystallization of the Al₈₅Ni₅Y₄Nd₄Co₂ metallic glass. *Applied Physics Letters*, **2001**, 78, 3061-3063 3.4 35
- 629 Mechanical properties of Zr-based bulk glassy alloys containing nanoscale compound particles. *Intermetallics*, **2000**, 8, 455-468 3.5 35
- 628 Crystallization on supercooled liquid in metallic Zr-Cu-Al glasses. *Applied Physics Letters*, **1993**, 62, 137-139 3.4 35
- 627 Zr?Y base amorphous alloys with two glass transitions and two supercooled liquid regions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1994**, 179-180, 346-350 5.3 35
- 626 Glass Transition and Viscoelastic Behaviors of La₅₅Al₂₅Ni₂₀ and La₅₅Al₂₅Cu₂₀ Amorphous Alloys. *Materials Transactions, JIM*, **1991**, 32, 593-598 35
- 625 Reusable and Sustainable Nanostructured Skeleton Catalyst: Heck Reaction with Nanoporous Metallic Glass Pd (PdNPore) as a Support, Stabilizer and Ligand-Free Catalyst. *Advanced Synthesis and Catalysis*, **2011**, 353, 2927-2932 5.6 34
- 624 Dealloying of Cu-Zr-Ti Bulk Metallic Glass in Hydrofluoric Acid Solution. *Materials Transactions*, **2009**, 50, 1255-1258 1.3 34
- 623 Microstructure and properties of ceramic particulate reinforced metallic glassy matrix composites fabricated by spark plasma sintering. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2008**, 148, 77-81 3.1 34
- 622 Elastic properties of Zr-based bulk metallic glasses studied by resonant ultrasound spectroscopy. *Journal of Materials Research*, **2007**, 22, 364-367 2.5 34
- 621 Formation of β Phase in Fe₆₀Nb₁₀B₃₀Amorphous Alloy with a Large Supercooled Liquid Region. *Japanese Journal of Applied Physics*, **2002**, 41, 219-221 1.4 34
- 620 Multicomponent metastable phase formed by crystallization of Ti₄₀Ni₂₀Cu₁₀B₁₀Zr amorphous alloy. *Journal of Materials Research*, **1999**, 14, 4426-4430 2.5 34
- 619 Thermal and Magnetic Properties of Fe‐Co‐Ln‐B (Ln=Nd, Sm, Tb or Dy) Amorphous Alloys with High Magnetostriction. *Materials Transactions, JIM*, **1999**, 40, 78-81 34
- 618 Physical and Mechanical Properties of Zr-Based Metallic Glasses. *Materials Transactions, JIM*, **1995**, 36, 890-895 34
- 617 Double-stage glass transition in a metallic glass. *Physical Review B*, **2010**, 81, 3.3 33
- 616 Volume and viscosity of Zr₄₀Al glass-forming liquid alloys. *Journal of Non-Crystalline Solids*, **2009**, 355, 317-322 3.9 33

615	Observation of unusual magnetic behavior: Spin reorientation transition in thick CoFeTaB glassy films. <i>Journal of Applied Physics</i> , 2006 , 100, 083902	2.5	33
614	Enhancement of glass-forming ability of FeCoNiBSiNb bulk glassy alloys with superhigh strength and good soft-magnetic properties. <i>Journal of Applied Physics</i> , 2007 , 102, 023515	2.5	33
613	Bulk Metallic Glasses for Industrial Products. <i>Materials Transactions</i> , 2004 , 45, 1245-1250	1.3	33
612	Investigation of Structure and Properties of the Al ₇₀ Ni ₁₀ Co ₁₀ Cu Metallic Glasses. <i>Journal of Materials Research</i> , 2002 , 17, 1014-1018	2.5	33
611	Thermal Stability and Mechanical Properties of Bulk Glassy Cu-Zr-Ti-(Nb, Ta) Alloys. <i>Materials Transactions</i> , 2002 , 43, 1367-1370	1.3	33
610	Soft Magnetic Properties of bcc Fe-M-B-Cu (M=Ti, Nb or Ta) Alloys with Nanoscale Grain Size. <i>Japanese Journal of Applied Physics</i> , 1991 , 30, L1729-L1732	1.4	33
609	Enhancement of glass-forming ability of FeSiBP bulk glassy alloys with good soft-magnetic properties and high corrosion resistance. <i>Journal of Alloys and Compounds</i> , 2012 , 533, 67-70	5.7	32
608	Formation and mechanical properties of Zr-Cu-Al bulk glassy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 427-431	5.3	32
607	Enhancement of the fracture strength and glass-forming ability of CoFeTaB bulk glassy alloy. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 5647-5653	1.8	32
606	Thermal Stability and Soft Magnetic Properties of Fe-Nb-B Amorphous Alloys with High Boron Concentrations. <i>Materials Transactions, JIM</i> , 1999 , 40, 643-647		32
605	Glass transition behavior of Al- and Mg-based amorphous alloys. <i>Journal of Non-Crystalline Solids</i> , 1990 , 117-118, 712-715	3.9	32
604	Mo microalloying effect on the glass-forming ability, magnetic, mechanical and corrosion properties of (Fe _{0.76} Si _{0.096} B _{0.084} P _{0.06}) _{100-x} Mox bulk glassy alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7688-7691	5.7	31
603	Fabrication of CuZrAgAl glassy alloy samples with a diameter of 20 mm by water quenching. <i>Journal of Materials Research</i> , 2008 , 23, 1452-1456	2.5	31
602	Superplasticity in Fe-based metallic glass with wide supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 735-739	5.3	31
601	Influence of a supercooled liquid on crystallization behaviour of Al ₇₀ Ni ₁₀ Co metallic glass. <i>Materials Letters</i> , 2002 , 54, 75-80	3.3	31
600	Stabilization of supercooled liquid and bulk glassy alloys in ferrous and non-ferrous systems. <i>Journal of Non-Crystalline Solids</i> , 1999 , 250-252, 552-559	3.9	31
599	Enhancement of Strength and Ductility in Zr-Based Bulk Amorphous Alloys by Precipitation of Quasicrystalline Phase. <i>Materials Transactions, JIM</i> , 2000 , 41, 1511-1520		31
598	Mechanical properties and deformation behaviour of large Al ₇₀ Pd ₂₀ Mn ₁₀ single quasi-crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 181-182, 850-855	5.3	31

597	Ductile Al-Cu-V amorphous alloys without metalloid. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988 , 19, 391-393		31
596	Improved mechanical properties of bulk glassy alloys containing spherical pores. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 471, 144-150	5.3	30
595	Reduced electronegativity difference as a factor leading to the formation of Al-based glassy alloys with a large supercooled liquid region of 50K. <i>Applied Physics Letters</i> , 2006 , 88, 011911	3.4	30
594	AlBe-based bulk quasicrystalline alloys with high elevated temperature strength. <i>Journal of Materials Research</i> , 2000 , 15, 2737-2744	2.5	30
593	Chapter 14 Bulk amorphous alloys. <i>Pergamon Materials Series</i> , 1999 , 2, 375-415		30
592	Formation Criteria and Growth Morphology of Quasicrystals in Al–Pd–TM (TM=Transition Metal) Alloys. <i>Materials Transactions, JIM</i> , 1991 , 32, 421-428		30
591	Syntheses and corrosion behaviors of Fe-based amorphous soft magnetic alloys with high-saturation magnetization near 1.7 T. <i>Journal of Materials Research</i> , 2015 , 30, 547-555	2.5	29
590	Deformation-induced transformations in Ti60Fe20Co20 alloy. <i>Scripta Materialia</i> , 2007 , 57, 445-448	5.6	29
589	Production of metallic glassy bipolar plates for PEM fuel cells by hot pressing in the supercooled liquid state. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5678-5685	6.7	29
588	Ni-based bulk glassy alloys with superhigh strength of 3800MPa in NiBeBSiNb system. <i>Applied Physics Letters</i> , 2006 , 88, 201903	3.4	29
587	Effect of volume fraction and geometry of pores on mechanical properties of porous bulk glassy Pd42.5Cu30Ni7.5P20 alloys. <i>Journal of Materials Research</i> , 2006 , 21, 1041-1047	2.5	29
586	Glass-Forming Ability and Thermal Stability of Ti–Zr–Cu–Pd–Si Bulk Glassy Alloys for Biomedical Applications. <i>Materials Transactions</i> , 2007 , 48, 163-166	1.3	29
585	On structural relaxation and viscous work heating during non-Newtonian viscous flow in a Zr55Al10Ni5Cu30 bulk metallic glass. <i>Acta Materialia</i> , 2006 , 54, 891-898	8.4	29
584	Thermal Stability, Glass-Forming Ability and Mechanical Properties of Mg-Y-Zn-Cu Glassy Alloys. <i>Materials Transactions</i> , 2003 , 44, 2271-2275	1.3	29
583	Bulk Glassy Alloys with Low Liquidus Temperature in Pt-Cu-P System. <i>Materials Transactions</i> , 2003 , 44, 1143-1146	1.3	29
582	Bulk glassy and nonequilibrium crystalline alloys by stabilization of supercooled liquid: fabrication, functional properties and applications (Part 1). <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2005 , 81, 156-171	4	29
581	Soft Magnetic Properties of Nanocrystalline Fe-Si-B-Nb-Cu Rod Alloys Obtained by Crystallization of Cast Amorphous Phase. <i>Materials Transactions</i> , 2002 , 43, 2337-2341	1.3	29
580	Mechanical Properties and Thermal Stability of Ti- and Al-Based Amorphous Wires Prepared by a Melt Extraction Method. <i>Materials Transactions, JIM</i> , 1995 , 36, 858-865		29

579	High mechanical strength of aluminum-based crystalline alloys produced by warm consolidation of amorphous powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 134, 1212-1214	5.3	29
578	Development and Applications of Highly Functional Al-based Materials by Use of Metastable Phases. <i>Materials Research</i> , 2015 , 18, 1414-1425	1.5	28
577	Bulk Metallic Glasses: Formation, Structure, Properties, and Applications. <i>Handbook of Magnetic Materials</i> , 2013 , 21, 131-171	1.3	28
576	Enhancement of glass-forming ability of CoFeBSiNb bulk glassy alloys with excellent soft-magnetic properties and superhigh strength. <i>Intermetallics</i> , 2010 , 18, 1876-1879	3.5	28
575	Ni-Rich Ni–Pd–P Glassy Alloy with High Strength and Good Ductility. <i>Materials Transactions</i> , 2006 , 47, 175-178	1.3	28
574	Formations of amorphous and quasicrystal phases in TiZrNiCu alloys. <i>Journal of Alloys and Compounds</i> , 2003 , 361, 234-240	5.7	28
573	Hydrogen permeation characteristics of melt-spun Zr60Al15Co2.5Ni7.5Cu15 glassy alloy membrane. <i>Journal of Alloys and Compounds</i> , 2004 , 372, 197-200	5.7	28
572	Structure and soft magnetic properties of bulk Fe-Al-Ga-P-C-B-Si glassy alloys prepared by consolidating amorphous powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 1019-1022	5.3	28
571	High Strain Rate Superplasticity of Supercooled Liquid for Amorphous Alloys. <i>Materials Science Forum</i> , 1996 , 233-234, 147-154	0.4	28
570	Formation, microstructure, chemical long-range order, and stability of quasicrystals in AlPdMn alloys. <i>Journal of Materials Research</i> , 1991 , 6, 2646-2652	2.5	28
569	Brittle metallic glass deforms plastically at room temperature in glassy multilayers. <i>Physical Review B</i> , 2009 , 80,	3.3	27
568	Effect of Cr addition on the glass-forming ability, magnetic properties, and corrosion resistance in FeMoGaPCBSi bulk glassy alloys. <i>Journal of Applied Physics</i> , 2006 , 100, 043523	2.5	27
567	Investigation of high strength metastable hypereutectic ternary TiBeCo and quaternary TiBeCo(M, Sn) alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 32-35	5.7	27
566	Deformation behavior of high strength metastable hypereutectic TiBeCo alloys. <i>Intermetallics</i> , 2007 , 15, 181-186	3.5	27
565	Nanocrystallization of Cu50Zr45Ti5 Metallic Glass Induced by Electron Irradiation. <i>Materials Transactions</i> , 2006 , 47, 1930-1933	1.3	27
564	Enhanced Shot Peening Effect for Steels by Using Fe-based Glassy Alloy Shots. <i>Materials Transactions</i> , 2003 , 44, 2391-2395	1.3	27
563	Formation, thermal and mechanical properties of bulk glassy alloys in ZrAlCo and ZrAlCoCu systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 432-435	5.3	27
562	Magnetization Process and Coercivity of Fe-(Al, Ga)-(P, C, B, Si) Soft Magnetic Glassy Alloys. <i>Materials Transactions</i> , 2004 , 45, 1219-1227	1.3	27

561	Preparation and Magnetic Properties of Co-based Bulk Glassy Alloys. <i>Materials Transactions</i> , 2001 , 42, 2572-2575	1.3	27
560	Formation and Soft Magnetic Properties of Fe-B-Si-Zr Bulk Glassy Alloys with High Saturation Magnetization above 1.5 T. <i>Materials Transactions</i> , 2002 , 43, 2350-2353	1.3	27
559	Deformation and Fracture Behaviors of Pd-Cu-Ni-P Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 3266-3272	1.3	27
558	Influence of the liquid states on the crystallization process of nanocrystal-forming ZrCuPdAl metallic glasses. <i>Applied Physics Letters</i> , 1999 , 75, 3644-3646	3.4	27
557	New Fe-based amorphous alloys with large magnetostriction and wide supercooled liquid region before crystallization. <i>Journal of Applied Physics</i> , 1999 , 85, 4491-4493	2.5	27
556	Hydrogen absorption and desorption behavior of Zr-based amorphous alloys with a large structurally relaxed amorphous region. <i>Journal of Alloys and Compounds</i> , 1999 , 292, 275-280	5.7	27
555	Effect of Minor Sn Additions on the Formation and Properties of TiCuZrPd Bulk Glassy Alloy. <i>Materials Transactions</i> , 2012 , 53, 500-503	1.3	26
554	An extended criterion for estimation of glass-forming ability of metals. <i>Journal of Materials Research</i> , 2007 , 22, 1378-1383	2.5	26
553	Ultrasonic bonding of Zr ₅₅ Cu ₃₀ Ni ₅ Al ₁₀ metallic glass. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 141-144	3.1	26
552	Joining of Zr-based bulk metallic glasses using the friction welding method. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 102-105	5.7	26
551	Fe-(Cr,Mo)-(C,B)-Tm Bulk Metallic Glasses with High Strength and High Glass-Forming Ability. <i>Materials Transactions</i> , 2006 , 47, 1615-1618	1.3	26
550	Consolidation of Fe-Co-Nd-Dy-B Glassy Powders by Spark-Plasma Sintering and Magnetic Properties of the Consolidated Alloys. <i>Materials Transactions</i> , 2003 , 44, 138-143	1.3	26
549	Effects of Nb addition on icosahedral quasicrystalline phase formation and glass-forming ability of ZrNiCuAl metallic glasses. <i>Applied Physics Letters</i> , 2001 , 79, 1024-1026	3.4	26
548	Preparation of Fe ₆₅ Co ₁₀ Ga ₅ P ₁₂ C ₄ B ₄ Bulk Glassy Alloy with Good Soft Magnetic Properties by Spark-Plasma Sintering of Glassy Powder. <i>Materials Transactions</i> , 2002 , 43, 1961-1965	1.3	26
547	Crystallization process of Zr ₆₀ Ni ₂₅ Al ₁₅ amorphous alloy. <i>Materials Letters</i> , 2000 , 44, 80-86	3.3	26
546	Change in electron transport property after glass transition in several Pd-based metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 1999 , 250-252, 781-785	3.9	26
545	Glassy alloy composites for information technology applications. <i>Intermetallics</i> , 2010 , 18, 1983-1987	3.5	25
544	Electrochemical synthesis of palladium nanostructures with controllable morphology. <i>Nanotechnology</i> , 2010 , 21, 85601	3.4	25

543	Dual phase metallic glassy composites with large-size and ultra-high strength fabricated by spark plasma sintering. <i>Intermetallics</i> , 2009 , 17, 512-516	3.5	25
542	Glass-forming ability and differences in the crystallization behavior of ribbons and rods of Cu ₃₆ Zr ₄₈ Al ₈ Ag ₈ bulk glass-forming alloy. <i>Journal of Materials Research</i> , 2009 , 24, 1886-1895	2.5	25
541	Corrosion Behavior of Ti-Based Metallic Glasses. <i>Materials Transactions</i> , 2006 , 47, 1934-1937	1.3	25
540	Formation and Mechanical Properties of Porous Pd-Pt-Cu-P Bulk Glassy Alloys. <i>Materials Transactions</i> , 2005 , 46, 2777-2780	1.3	25
539	Electrode properties of rapidly solidified Mg ₆₇ Ni ₂₃ Pd ₁₀ amorphous alloy. <i>Journal of Alloys and Compounds</i> , 2002 , 347, 239-243	5.7	25
538	Mechanical properties of Al ₈₈ (Y _{1-x} Ce _x) ₂ Ni ₉ Fe ₁ (x=0,0.5,1) amorphous alloys containing nanoscale fcc-Al particles.. <i>Keikin-zoku/Journal of Japan Institute of Light Metals</i> , 1992 , 42, 217-223	0.3	25
537	Microstructure and mechanical properties of crystalline particulates dispersed Ni-based metallic glassy composites fabricated by spark plasma sintering. <i>Intermetallics</i> , 2010 , 18, 851-858	3.5	24
536	Electrochemical and XPS studies of Ni-based metallic glasses in boiling nitric acid solutions. <i>Electrochimica Acta</i> , 2009 , 54, 1612-1617	6.7	24
535	Enhanced Tensile Strength and Plasticity of Zr-Cu-Al Bulk Glassy Alloys at Cryogenic Temperatures. <i>Materials Transactions</i> , 2009 , 50, 2685-2690	1.3	24
534	Ni-Rich Bulk Metallic Glasses with High Glass-Forming Ability and Good Metallic Properties. <i>Materials Transactions</i> , 2009 , 50, 2441-2445	1.3	24
533	Magnetic behavior of cosputtered Fe-Zr amorphous thin films exhibiting perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2008 , 78,	3.3	24
532	Formation of a phase separating bulk metallic glass in Cu ₄₀ Zr ₄₀ Al ₁₀ Ag ₁₀ alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 97-100	3.1	24
531	Glass-transition behavior of Ni: Calculation, prediction, and experiment. <i>Journal of Applied Physics</i> , 2008 , 104, 123529	2.5	24
530	Hot pressing of Fe-Co-Ni-Dy-B glassy powders in supercooled liquid state and hard magnetic properties of the consolidated alloys. <i>Scripta Materialia</i> , 2002 , 47, 231-235	5.6	24
529	Effect of Ni on stabilization of the supercooled liquid and devitrification of Cu ₄₀ Zr ₄₀ Ti bulk glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2003 , 325, 187-192	3.9	24
528	New Pd-Based Bulk Glassy Alloys with High Glass-Forming Ability and Large Supercooled Liquid Region. <i>Materials Transactions</i> , 2005 , 46, 1720-1724	1.3	24
527	Formation and Soft Magnetic Properties of Co-Fe-Si-B-Nb Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 1230-1234	1.3	24
526	Soft Magnetic Properties of Co-Based Amorphous Alloys with Wide Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 1998 , 39, 762-768		24

- 525 Formation and Magnetic Properties of Bulk Glassy Fe–Co–Nd–Dy–B Alloys with High Boron Concentrations. *Materials Transactions, JIM*, **2000**, 41, 1679-1682 24
- 524 Microstructure of nanocrystalline b.c.c. Fe₇₀M₂₀B(M=Nb,Hf) soft magnetic alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1994**, 179-180, 495-500 24
- 523 Solidification Condition of Bulk Glassy Zr₆₀Al₁₀Ni₁₀Cu₁₅Pd₅ Alloy by Unidirectional Arc Melting. *Materials Transactions, JIM*, **1995**, 36, 1398-1402 24
- 522 Extraordinary magnetocaloric effect of Fe-based bulk glassy rods by combining fluxing treatment and J-quenching technique. *Journal of Alloys and Compounds*, **2016**, 684, 29-33 5.7 24
- 521 Glassy Solidification Criterion of Zr₅₀Cu₄₀Al₁₀ Alloy. *Materials Transactions*, **2007**, 48, 1363-1372 1.3 23
- 520 Effects of Additional Elements on the Glass Formation and Corrosion Behavior of Bulk Glassy Cu–Hf–Ti Alloys. *Materials Transactions*, **2003**, 44, 1042-1045 1.3 23
- 519 Bulk glassy soft-magnetic cores produced by spark-plasma sintering Fe₆₅Co₁₀Ga₅P₁₂C₄B₄ glassy powder. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 666-670 5.3 23
- 518 Prediction of Glass-Forming Composition Ranges in Zr–Ni–Al Alloys. *Materials Transactions*, **2002**, 43, 2502-2508 2.3 23
- 517 High-strength bulk nanocrystalline alloys containing compound and amorphous phases. *Scripta Materialia*, **1999**, 12, 741-749 23
- 516 High Strength Al–V–M (M=Fe, Co or Ni) Alloys Containing High Volume Fraction of Nanoscale Amorphous Precipitates. *Materials Transactions, JIM*, **1995**, 36, 1219-1228 23
- 515 Highly Efficient and Self-Standing Nanoporous NiO/Al₃Ni₂ Electrocatalyst for Hydrogen Evolution Reaction. *ACS Applied Energy Materials*, **2019**, 2, 7913-7922 6.1 22
- 514 Pronounced enhancement of glass-forming ability of Fe–Si–B–P bulk metallic glass in oxygen atmosphere. *Journal of Materials Research*, **2014**, 29, 1217-1222 2.5 22
- 513 In situ phase separation and flow behavior in the glass transition region. *Intermetallics*, **2010**, 18, 1235-1239 2.3 22
- 512 Effect of Nb addition on the glass-forming ability, mechanical and soft-magnetic properties in (Co_{0.942}Fe_{0.058})₇₂Nb_xB_{22.4}Si_{5.6} bulk glassy alloys. *Journal of Alloys and Compounds*, **2010**, 504, S31-S33 5.7 22
- 511 Tensile deformation behaviour of Zr-based glassy alloys. *Philosophical Magazine Letters*, **2010**, 90, 139-148 2.2 22
- 510 Real-space structural studies of Cu₇₀Zr₃₀ glassy alloy. *Journal of Alloys and Compounds*, **2008**, 466, 106-110 5.7 22
- 509 Synthesis of bulk glassy alloys in the (Fe,Co,Ni)₈₀Si₁₀Nb₁₀ system. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 239-242 5.3 22
- 508 Fabrication of ZrCuAlNi Metallic Glassy Matrix Composite Containing ZrO₂ Particles by Spark Plasma Sintering Process. *Materials Transactions*, **2007**, 48, 158-162 1.3 22

507	Excellent Mechanical Properties of Cu-Hf-Ti-Ta Bulk Glassy Alloys Containing In-Situ Dendrite Ta-based BCC Phase. <i>Materials Transactions</i> , 2004 , 45, 2936-2940	1.3	22
506	Nanocrystalline Zr-Based Bulk Glassy Alloys with High Flexural Strength. <i>Materials Transactions, JIM</i> , 1999 , 40, 1015-1018		22
505	New Al-based amorphous alloys with high mechanical strength in the Al ₂ Ni ₃ M and Al ₂ Co ₃ M (M = Mn, Fe, Co, Ni) systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 179-180, 596-599	5.3	22
504	Continuous-Cooling-Transformation (CCT) Curves for Zr–Al–Ni–Cu Supercooled Liquids to Amorphous or Crystalline Phase (Rapid Publication). <i>Materials Transactions, JIM</i> , 1995 , 36, 876-878		22
503	He ion irradiation induced nanocrystallization in Cu ₅₀ Zr ₄₅ Ti ₅ glassy alloy. <i>Surface and Coatings Technology</i> , 2011 , 206, 829-833	4.4	21
502	High-strength Al-based nanostructure alloys. <i>Current Opinion in Solid State and Materials Science</i> , 1997 , 2, 305-310	12	21
501	Influence of cooling rate on the structure and properties of a Cu ₂ Zr ₃ Ti ₅ Ag glassy alloy. <i>Journal of Materials Research</i> , 2008 , 23, 515-522	2.5	21
500	Thermal expansion of a glassy alloy studied using a real-space pair distribution function. <i>Applied Physics Letters</i> , 2006 , 88, 121926	3.4	21
499	Size dependence of soft to hard magnetic transition in (Nd, Pr)BeAl bulk amorphous alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 1140-1144	5.3	21
498	Finite element analysis of compressive deformation of bulk metallic glasses. <i>Acta Materialia</i> , 2004 , 52, 3813-3823	8.4	21
497	Multistage devitrification of Mg-Ni-Mm and g-Ni-Y-Mm metallic glasses (Mm = misch metal). <i>Philosophical Magazine</i> , 2003 , 83, 203-216	1.6	21
496	Bulk glassy Cu-based alloys with a large supercooled liquid region of 110 K. <i>Applied Physics Letters</i> , 2003 , 83, 2351-2353	3.4	21
495	Investigation of short-range order in nanocrystal-forming Zr ₆₀ Cu ₂₀ Pd ₁₀ Al ₁₀ metallic glass and the mechanism of nanocrystal formation. <i>Applied Physics Letters</i> , 2001 , 79, 1792-1794	3.4	21
494	Crystallization and hard magnetic properties of Fe ₇₀ Ni ₁₀ Dy ₅ B amorphous alloys with glass transition. <i>Journal of Applied Physics</i> , 2000 , 87, 6122-6124	2.5	21
493	Effects of extrusion conditions on mechanical properties in ZrAlNiCu glassy powder compacts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 219, 39-43	5.3	21
492	Light-metal base amorphous alloys containing lanthanide metal. <i>Journal of Alloys and Compounds</i> , 1994 , 207-208, 340-348	5.7	21
491	SiC dispersed Fe-based glassy composite cores produced by spark plasma sintering and their high frequency magnetic properties. <i>Intermetallics</i> , 2012 , 20, 76-81	3.5	20
490	Tough Hypoeutectic Zr-Based Bulk Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1468-1475	2.3	20

489	Improvement of soft magnetic properties of nanocrystalline Fe ₇₀ M ₂₀ B (M:Zr and Nb) alloys and their applications. <i>Scripta Materialia</i> , 1997 , 9, 403-412		20
488	Structure and properties of high strength and ductile Ti ₄₀ Be ₁₀ Cu ₂₀ Nb ₁₀ Sn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 126-131	5.3	20
487	Drastic Increase in the Toughness of Structural Relaxed Hypoeutectic Zr ₅₉ Cu ₃₁ Al ₁₀ Bulk Glassy Alloy. <i>Materials Transactions</i> , 2007 , 48, 1276-1281	1.3	20
486	High Strength Ni-Fe-W and Ni-Fe-W-P Alloys Produced by Electrodeposition. <i>Materials Transactions</i> , 2003 , 44, 1942-1947	1.3	20
485	Influences of hydrostatic pressure during casting and Pd content on as-cast phase in Zr-Al-Ni-Cu-Pd bulk alloys. <i>Applied Physics Letters</i> , 2004 , 85, 2205-2207	3.4	20
484	New Cu-Zr-Al-Nb Bulk Glassy Alloys with High Corrosion Resistance. <i>Materials Transactions</i> , 2004 , 45, 1958-1961	1.3	20
483	Structure and Magnetic Properties of Fe _{42.5} Co _{42.5} Nb ₇ B ₈ Nanocrystalline Alloy. <i>Materials Transactions</i> , 2002 , 43, 589-592	1.3	20
482	High-frequency permeability of (Fe, Co, Ni) ₆₂ Nb ₈ B ₃₀ amorphous alloys with a wide supercooled liquid region. <i>Applied Physics Letters</i> , 1999 , 74, 2510-2512	3.4	20
481	Consolidation mechanism of aluminum-based amorphous alloy powders during warm extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 181-182, 1174-1178	5.3	20
480	Glass formability and the Al ₂ O ₃ system. <i>Philosophical Magazine</i> , 2012 , 92, 655-665	1.6	19
479	Effect of Ag addition on local structure of Cu ₅₀ Zr glassy alloy. <i>Journal of Materials Research</i> , 2009 , 24, 274-278	2.5	19
478	Structure and crystallization kinetics of a Cu ₅₀ Zr ₄₅ Ti ₅ glassy alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 24-27	5.7	19
477	Evaluation of the local environment for nanoscale quasicrystal formation in Zr(80)Pt(20) glassy alloy using Voronoi analysis. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 375104	1.8	19
476	Glass-Forming Ability and Properties of New Au-Based Glassy Alloys with Low Au Concentrations. <i>Materials Transactions</i> , 2009 , 50, 1290-1293	1.3	19
475	Mechanical properties of rapidly solidified Al-Si-Ni-Ce P/M alloys. <i>Scripta Materialia</i> , 1997 , 36, 475-480	5.6	19
474	Glass formation dependence on casting-atmosphere pressure in Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{17.5} Pd _x (x=0-7.5) alloy system: A resultant effect of quasicrystalline phase transformation and cooling mechanism during mold-casting process. <i>Journal of Applied Physics</i> , 2008 , 103, 044907	2.5	19
473	Specific volume and elastic properties of glassy, icosahedral quasicrystalline and crystalline phases in Zr ₅₀ Ni ₁₀ Cu ₂₀ Al ₁₀ Pd alloy. <i>Acta Materialia</i> , 2007 , 55, 1009-1015	8.4	19
472	Effects of additional noble elements on the thermal stability and mechanical properties of Cu ₅₀ Zr ₄₅ Al bulk glassy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 631-635	5.3	19

471	Thermal stability and magnetic properties of GdBeAl bulk amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 440, 199-203	5.7	19
470	Influences of additional alloying elements (V, Ni, Cu, Sn, B) on structure and mechanical properties of high-strength hypereutectic TiBeCo bulk alloys. <i>Intermetallics</i> , 2006 , 14, 255-259	3.5	19
469	Formation, Thermal Stability, Mechanical Properties and Corrosion Resistance of Cu-Zr-Ti-Ni-Nb Bulk Glassy Alloys. <i>Materials Transactions</i> , 2003 , 44, 1147-1152	1.3	19
468	The influence of scandium in effecting fragile to strong glass transition in aluminium-based alloys. <i>Applied Physics Letters</i> , 2004 , 85, 3758-3759	3.4	19
467	Thermal Stability and Devitrification Behavior of Ternary Ni-Nb-Ti and Quaternary Glassy Alloys Containing Noble Metals. <i>Materials Transactions</i> , 2005 , 46, 675-680	1.3	19
466	(Fe,Co,Ni)B ₂ Si ₂ Nb bulk glassy alloy with super-high strength and some ductility. <i>Journal of Materials Research</i> , 2005 , 20, 1-5	2.5	19
465	Formation of Ti-Zr(Hf)-Ni-Cu Amorphous Alloys and Quasicrystal Precipitation upon Annealing. <i>Materials Transactions</i> , 2001 , 42, 528-531	1.3	19
464	Characteristic behavior of La ₅₅ Al ₂₅ Ni ₂₀ amorphous alloy under rapid heating. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 743-746	5.3	19
463	Electron Beam Welding of Zr ₅₀ Cu ₃₀ Ni ₁₀ Al ₁₀ Bulk Glassy Alloys. <i>Materials Transactions</i> , 2002 , 43, 2509-2515	2.5	19
462	High-Strength Al-Based Alloys Consisting Mainly of Nanoscale Quasicrystalline or Amorphous Particles. <i>Materials Science Forum</i> , 1996 , 235-238, 873-880	0.4	19
461	Novel bioactive Fe-based metallic glasses with excellent apatite-forming ability. <i>Materials Science and Engineering C</i> , 2016 , 69, 513-21	8.3	18
460	Composition effect on intrinsic plasticity or brittleness in metallic glasses. <i>Scientific Reports</i> , 2014 , 4, 5733	4.9	18
459	Ni- and Be-free Zr-based bulk metallic glasses with high glass-forming ability and unusual plasticity. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 13, 166-73	4.1	18
458	Cu particulate dispersed Cu ₅₀ Zr ₄₅ Al ₅ bulk metallic glassy composite with enhanced electrical conductivity. <i>Intermetallics</i> , 2010 , 18, 1973-1977	3.5	18
457	Unusual solidification behavior of a Zr ₅₀ Ti ₂₀ Ni ₁₀ Al bulk glassy alloy made from low-purity Zr. <i>Intermetallics</i> , 2010 , 18, 1531-1536	3.5	18
456	Zr-based bulk glassy alloy with improved resistance to stress corrosion cracking in sodium chloride solutions. <i>Corrosion Science</i> , 2010 , 52, 2950-2957	6.8	18
455	Clustered crystalline structures as glassy phase approximants. <i>Intermetallics</i> , 2009 , 17, 477-480	3.5	18
454	The relation between the bulk and ribbon Zr ₅₅ Ni ₂₅ Al ₂₀ metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 226-228, 388-392	5.3	18

453	Fe-metalloids bulk glassy alloys with high Fe content and high glass-forming ability. <i>Journal of Materials Research</i> , 2008 , 23, 1339-1342	2.5	18
452	Magnetic properties of CoFeBSiNb bulk glassy alloy with zero magnetostriction. <i>Journal of Applied Physics</i> , 2007 , 101, 09N112	2.5	18
451	Deformation behavior of Zr- and Ni-based bulk glassy alloys. <i>Journal of Materials Research</i> , 2007 , 22, 1087-1092	2.5	18
450	Fabrication of New Cu ₃₄ Pd ₂ Zr ₄₈ Ag ₈ Al ₈ Bulk Glassy Alloy with a Diameter of 30 mm. <i>Materials Transactions</i> , 2007 , 48, 3031-3033	1.3	18
449	Effect of Tantalum on Corrosion Resistance of Ni-Nb-Ta-Ti-Zr Glassy Alloys at High Temperature. <i>Materials Transactions</i> , 2005 , 46, 858-862	1.3	18
448	Shear Sliding-off Fracture of Bulk Amorphous Zr-Based Alloys Containing Nanoscale Compound Particles. <i>Materials Transactions, JIM</i> , 1999 , 40, 1376-1381		18
447	Rotating-Beam Fatigue Strength of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Bulk Amorphous Alloy. <i>Materials Transactions, JIM</i> , 1999 , 40, 696-699		18
446	Amorphous (Zr-Y) ₆₀ Al ₁₅ Ni ₂₅ Alloys with Two Supercooled Liquid Regions. <i>Materials Transactions, JIM</i> , 1992 , 33, 143-145		18
445	Hydrogen sensing ability of Pd-based amorphous alloys. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 279-284	8.5	17
444	Nano quasicrystal formation and local atomic structure in ZrPd and ZrPt binary metallic glasses. <i>Zeitschrift für Kristallographie</i> , 2008 , 223, 726-730		17
443	Wetting characteristics of SnAgCu solder on Pd-based metallic glass. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 124-127	3.1	17
442	Thermal Stability and Mechanical Properties of Cu-Based Bulk Glassy Alloys in Cu ₅₀ (Zr _{1-x} Hf _x) ₄₅ Al ₅ System. <i>Materials Transactions</i> , 2003 , 44, 2220-2223	1.3	17
441	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
440	Electron-beam welding of Zr ₅₀ Cu ₃₀ Ni ₁₀ Al ₁₀ bulk glassy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 422-426	5.3	17
439	Nanocrystalline Fe-Pt-B base hard magnets with high coercive force obtained from amorphous precursor. <i>Journal of Applied Physics</i> , 2005 , 97, 10H308	2.5	17
438	On The Characterization of Plastic Flow in Zr-based Metallic Glass Through Micro-indentation: an Atomic Force Microscopy Analysis. <i>Materials Transactions</i> , 2002 , 43, 2617-2621	1.3	17
437	Low core losses and soft magnetic properties of FeAlCoPtBSi glassy alloy ribbons with large thicknesses. <i>Journal of Applied Physics</i> , 1999 , 85, 4418-4420	2.5	17
436	A new CoFe-based bulk metallic glasses with high thermoplastic forming ability. <i>Scripta Materialia</i> , 2013 , 69, 553-556	5.6	16

435	Ultrasonic characteristics of porous Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk metallic glass fabricated by spark plasma sintering. <i>Intermetallics</i> , 2010 , 18, 2014-2018	3.5	16
434	Preparation of Bulk Glassy Fe ₇₆ Si ₉ B ₁₀ P ₅ as a Soft Magnetic Material by Spark Plasma Sintering. <i>Materials Transactions</i> , 2009 , 50, 487-489	1.3	16
433	Relations between the Thermal and Mechanical Properties of Cast Zr-TM-Al (TM: Cu, Ni, or Co) Bulk Glassy Alloys. <i>Materials Transactions</i> , 2007 , 48, 1846-1849	1.3	16
432	Corrosion Behaviour of [(Fe _{0.6} Co _{0.4}) _{0.75} B _{0.2} Si _{0.05}] ₉₆ Nb ₄ Bulk Glassy Alloy in Sulphuric Acid Solutions. <i>Materials Transactions</i> , 2006 , 47, 2566-2570	1.3	16
431	Formation and High Mechanical Strength of Bulk Glassy Alloys in Zr-Al-Co-Cu System. <i>Materials Transactions</i> , 2003 , 44, 1839-1844	1.3	16
430	Local structures around Zn and Y in the melt-quenched Mg ₉₇ Zn ₁ Y ₂ ribbon. <i>Journal of Alloys and Compounds</i> , 2003 , 353, 240-245	5.7	16
429	Ultra-Low Glass Transition Temperatures in Ce-Based Bulk Metallic Glasses. <i>Materials Transactions</i> , 2005 , 46, 1857-1860	1.3	16
428	Relation between time-temperature transformation and continuous heating transformation diagrams of metallic glassy alloys. <i>Physica B: Condensed Matter</i> , 2005 , 358, 174-180	2.8	16
427	Fabrication and characterization of Coriolis mass flowmeter made from Ti-based glassy tubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 407, 201-206	5.3	16
426	Superplastic Deformation of Supercooled Liquid in Zr-Based Bulk Glassy Alloys Containing Nano-Quasicrystalline Particles. <i>Materials Transactions</i> , 2001 , 42, 1517-1522	1.3	16
425	Precipitations of icosahedral quasicrystalline and crystalline approximant phases in Zr-Al-Ni-Cu-Ir metallic glasses. <i>Physical Review B</i> , 2001 , 63,	3.3	16
424	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
423	Amorphous forming ability and mechanical properties of rapidly solidified Al ₇₅ Zr ₁₅ TM (LTM=Fe, Co, Ni and Cu) alloys. <i>Materials Letters</i> , 2002 , 52, 47-52	3.3	16
422	Amorphous and quasi-crystalline phases in rapidly solidified Mg ₇₀ Al ₁₀ Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 181-182, 1387-1391	5.3	16
421	Mechanisms of High Strain-Rate Superplasticity of Al-14 mass%Ni-14 mass%Mn (Misch Metal) Alloy Produced from Amorphous Powder. <i>Materials Transactions, JIM</i> , 1995 , 36, 1467-1475		16
420	Study on continuous casting of bulk metallic glass. <i>Materials Letters</i> , 2011 , 65, 2257-2260	3.3	15
419	Fabrication and nano-imprintabilities of Zr-, Pd- and Cu-based glassy alloy thin films. <i>Nanotechnology</i> , 2011 , 22, 105302	3.4	15
418	Synthesis of Ti-Based Glassy Alloy/Hydroxyapatite Composite by Spark Plasma Sintering. <i>Materials Transactions</i> , 2008 , 49, 502-505	1.3	15

417	Ti-based amorphous alloys with a wide supercooled liquid region. <i>Materials Letters</i> , 2007 , 61, 2851-2854	3.3	15
416	Ultrasonic properties of Cu ₄₅ Zr(45-x)Hf _x Ag ₁₀ glassy alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3685-3691	1.6	15
415	In situ Formed (Cu _{0.6} Zr _{0.25} Ti _{0.15}) ₉₃ Nb ₇ Bulk Metallic Glass Composites. <i>Materials Transactions</i> , 2004 , 45, 2346-2350	1.3	15
414	Bulk glassy and nonequilibrium crystalline alloys by stabilization of supercooled liquid: fabrication, functional properties and applications (Part 2). <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2005 , 81, 172-188	4	15
413	Behavior of electrical resistivity through glass transition in Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 740-742	5.3	15
412	High Strength Al-Ti-Fe Alloys Consisting of Amorphous and fcc-Al Phases Prepared by Rapid Solidification. <i>Materials Transactions, JIM</i> , 1996 , 37, 1722-1725		15
411	Formation, thermal stability and mechanical properties of amorphous alloys in the Mg-transition metal(Ni, Cu)-alkaline-earth metal(Ca, Sr, Ba) system. <i>Journal of Materials Science</i> , 1993 , 28, 379-383	4.3	15
410	The effect of transition metal (TM) on the supercooled liquid region for (Zr _{0.7} Cu _{0.3}) ₉₀ TM ₁₀ amorphous alloys. <i>Journal of Materials Science Letters</i> , 1993 , 12, 700-701		15
409	Multicomponent nanoporous metals prepared by dealloying Pd ₈₀ Ni _x P ₂₀ metallic glasses. <i>Intermetallics</i> , 2015 , 61, 66-71	3.5	14
408	Formation and properties of two-phase bulk metallic glasses by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S214-S218	5.7	14
407	Improved plasticity of iron-based high-strength bulk metallic glasses by copper-induced nanocrystallization. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3002-3005	3.9	14
406	Nanoimprinting of Metallic Glass for Periodic Nano-Hole Structures with Dies Fabricated by FIB-CVD and RIE. <i>Materials Transactions</i> , 2011 , 52, 239-242	1.3	14
405	Thermal stability, mechanical properties and nano-imprint ability of Pd-Cu-Ni-P glassy alloy thin film. <i>Intermetallics</i> , 2010 , 18, 1969-1972	3.5	14
404	Solderability of Bulk Metallic Glasses Using Lead-Free Solders. <i>Materials Transactions</i> , 2009 , 50, 1326-1329		14
403	Characterization of Surface Properties, Osteoblast Cell Culture in Vitro and Processing with Flow-Viscosity of Ni-Free Ti-Based Bulk Metallic Glass for Biomaterials. <i>Journal of Biomechanical Science and Engineering</i> , 2009 , 4, 384-391	0.8	14
402	Precipitation of the ZrCu B2 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
401	Effect of B Addition on the Extension of Supercooled Liquid Region in Zr-Cu-Al Base Amorphous Alloys. <i>Materials Transactions, JIM</i> , 1997 , 38, 185-188		14
400	Bulk glassy Zr-based alloys prepared by consolidation of glassy alloy powders in supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 226-228, 458-462	5.3	14

399	Continuous casting of thick Fe-base glassy plates by twin-roller melt-spinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 269-272	5.3	14
398	Influence of Al and Ag on the Devitrification Behavior of a Cu-Zr Glassy Alloy. <i>Materials Transactions</i> , 2007 , 48, 2128-2132	1.3	14
397	Microstructural Changes during Microwave Heating of Ni _{52.5} Zr ₁₅ Nb ₁₀ Ti ₁₅ Pt _{7.5} Metal Glasses. <i>Materials Transactions</i> , 2007 , 48, 632-634	1.3	14
396	Deformation-Induced Nanoscale Dynamic Transformation Studies in Zr-Al-Ni-Pd and Zr-Al-Ni-Cu Bulk Metallic Glasses. <i>Materials Transactions</i> , 2007 , 48, 1327-1335	1.3	14
395	Transition from Plasticity to Brittleness in Cu-Zr-Based Bulk Metallic Glasses. <i>Materials Transactions</i> , 2007 , 48, 1272-1275	1.3	14
394	Formation, thermal stability and corrosion behavior of glassy Ti ₄₅ Zr ₅ Cu ₄₅ Ni ₅ alloy. <i>Intermetallics</i> , 2007 , 15, 683-686	3.5	14
393	Thermal Stability and Mechanical Properties of Cu-Hf-Al Base Bulk Glassy Alloys with a Large Supercooled Liquid Region of Over 100 K. <i>Materials Transactions</i> , 2003 , 44, 2346-2349	1.3	14
392	Cu-Based Bulk Glass Formation in the Cu-Zr-Ga Alloy System and Their Mechanical Properties. <i>Materials Transactions</i> , 2004 , 45, 532-535	1.3	14
391	Fabrication of Bulk Glassy Hf ₅₀ Cu ₃₀ Ni ₁₀ Al ₁₀ Alloy by Copper Mold Casting. <i>Materials Transactions</i> , 2002 , 43, 2357-2359	1.3	14
390	Microstructure and crystallization of melt-spun Ti ₅₀ Ni ₅₀ Zr ₅₀ alloys. <i>Journal of Alloys and Compounds</i> , 2002 , 339, 216-220	5.7	14
389	Production of Zr-Based Bulk Glassy Alloys with High Strength and High Toughness and Their Applications to Golf Clubs.. <i>Materia Japan</i> , 1999 , 38, 251-253	0.1	14
388	Microstructure and Properties of Bulky Al ₈₄ Ni ₁₀ Ce ₆ Alloys with Amorphous Surface Layer Prepared by High-Pressure Die Casting. <i>Materials Transactions, JIM</i> , 1994 , 35, 808-813		14
387	Zr-based bulk metallic glass composite with in situ precipitated nanocrystals. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 155-158	5.7	13
386	Atomic structure changes and phase transformation behavior in PdBi bulk glass-forming alloy. <i>Intermetallics</i> , 2012 , 20, 135-140	3.5	13
385	Glass-forming ability and soft magnetic properties of (Co _{0.6} Fe _{0.3} Ni _{0.1}) ₆₇ B ₂₂ +xSi ₆ Nb ₅ bulk glassy alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S206-S209	5.7	13
384	Enhancement of glass-forming ability and corrosion resistance of Zr-based Zr-Ni-Al bulk metallic glasses with minor addition of Nb. <i>Journal of Applied Physics</i> , 2011 , 110, 023513	2.5	13
383	Effects of B and Si contents on glass-forming ability and soft-magnetic properties in (Co _{0.89} Fe _{0.057} Nb _{0.053}) ₁₀₀ (B _{0.8} Si _{0.2}) _x glassy alloys. <i>Journal of Applied Physics</i> , 2010 , 107, 09A319	2.5	13
382	New nickel-based bulk metallic glasses with extremely high nickel content. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 80-83	5.7	13

381	Effects of growing integrated layer [GIL] formation on bonding behavior between hydroxyapatite ceramics and Ti-based bulk metallic glasses via hydrothermal hot-pressing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 161, 27-30	3.1	13
380	Mechanical properties of porous bulk glassy alloy prepared in high-pressure hydrogen atmosphere. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 958-961	5.3	13
379	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
378	Thermal stability and magnetic properties of (Fe, Co)Al(P, C, B, Si) bulk glassy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 356-359	5.3	13
377	Surface characteristics of high corrosion resistant NiNbZrTiTa glassy alloys for nuclear fuel reprocessing applications. <i>Electrochemistry Communications</i> , 2008 , 10, 1408-1410	5.1	13
376	Influence of thermal conductivity on the glass-forming ability of Ni-based and Cu-based alloys. <i>Applied Physics Letters</i> , 2006 , 88, 251902	3.4	13
375	Glass Transition Behavior and Mechanical Properties of Ni-Si-B-Based Glassy Alloys. <i>Materials Transactions</i> , 2003 , 44, 1425-1428	1.3	13
374	Soft magnetic properties of bulk nanocrystalline FeCoBSiNbCu alloy with high saturated magnetization of 1.35 T. <i>Journal of Materials Research</i> , 2004 , 19, 2549-2552	2.5	13
373	Comparative Study on Glassy Phase Stabilities of Zr-Co-Al and Zr-Ni-Al Metallic Glasses. <i>Materials Transactions</i> , 2005 , 46, 2785-2790	1.3	13
372	Formation of Bulk Pd-Cu-Si-P Glass with Good Mechanical Properties. <i>Materials Transactions</i> , 2005 , 46, 376-378	1.3	13
371	Developments of Aluminum- and Magnesium-Based Nanophase High-Strength Alloys by Use of Melt Quenching-Induced Metastable Phase. <i>Materials Transactions</i> , 2002 , 43, 2006-2016	1.3	13
370	Nano-icosahedral quasicrystalline phase formation from a supercooled liquid state in ZrFeNi ternary metallic glass. <i>Applied Physics Letters</i> , 2000 , 76, 3037-3039	3.4	13
369	Effect of Zn addition on the crystallization process in Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{17.5} metallic glass. <i>Journal of Alloys and Compounds</i> , 2001 , 325, 230-235	5.7	13
368	Structure and mechanical properties of Al-6.3mass%Fe-3.8mass%Cr-3.3mass%Ti P/M alloys containing quasicrystals. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1998 , 48, 263-268	0.3	13
367	Viscosity Measurements for La-Al-Ni liquid Alloys by an Oscillating Crucible Method. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 554, 63		13
366	A New Method for Producing Amorphous Alloy Wires. <i>Materials Transactions, JIM</i> , 2000 , 41, 1463-1466		13
365	Quasicrystalline and Related Crystalline Phases in Al-Pd-Fe System. <i>Materials Transactions, JIM</i> , 1993 , 34, 155-161		13
364	Origin of abnormal glass transition behavior in metallic glasses. <i>Intermetallics</i> , 2014 , 49, 52-56	3.5	12

363	Friction Stir Welding of Zr55Cu30Ni5Al10 Bulk Metallic Glass. <i>Materials Transactions</i> , 2009 , 50, 1300-1303.	3.3	12
362	Densification of Gas Atomized Ni-Based Metallic Glassy Powders by Spark Plasma Sintering. <i>Materials Transactions</i> , 2009 , 50, 1273-1278	1.3	12
361	Micro structure of nanocrystalline Fe-Nb-Pr-B alloys produced by crystallization of amorphous phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 226-228, 520-525	5.3	12
360	Influences of Temperature and Strain Rate on Mechanical Behavior of a Cu45Zr45Al5Ag5 Bulk Glassy Alloy. <i>Materials Transactions</i> , 2008 , 49, 513-517	1.3	12
359	Corrosion behavior of a glassy Ti ₂₀ Zr ₁₀ Hf ₁₀ Cu ₁₀ Ni ₅ Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 557-560	5.3	12
358	Effect of B to Si concentration ratio on glass-forming ability and soft-magnetic properties in (Co _{0.705} Fe _{0.045} B _{0.25} Si _x) ₉₆ Nb ₄ glassy alloys. <i>Journal of Applied Physics</i> , 2007 , 101, 09N101	2.5	12
357	Crystallization and Embrittlement Behavior of a Zr55Al10Ni5Cu30 Metallic Glass Having Different Si and O Contents. <i>Materials Transactions</i> , 2007 , 48, 821-825	1.3	12
356	Unusual Plasticity of the Particulate-Reinforced Cu-Zr-Based Bulk Metallic Glass Composites. <i>Materials Transactions</i> , 2007 , 48, 2542-2544	1.3	12
355	Microstructure and Mechanical Properties of Porous Zr55Cu30Al10Ni5 Bulk Metallic Glass Fabricated by Spark Plasma Sintering Process. <i>Materials Transactions</i> , 2007 , 48, 1589-1594	1.3	12
354	Observation of linear defects in Al particles below 7 nm in size. <i>Journal of Materials Research</i> , 2006 , 21, 1347-1350	2.5	12
353	Preparation and mechanical properties of dispersed-ZrN glassy composite alloys containing pores. <i>Acta Materialia</i> , 2006 , 54, 3221-3226	8.4	12
352	Effect of Hydrogen Absorption on the Electrical Resistance of Melt-Spun Mg-Pd and Mg-Ni-Pd Amorphous Alloys. <i>Materials Transactions</i> , 2004 , 45, 1367-1370	1.3	12
351	Electrochemical and Thermal Properties of Hydrogen-absorbed Mg ₆₇ Ni ₂₈ Pd ₅ Amorphous Alloy. <i>Journal of Materials Research</i> , 2002 , 17, 60-64	2.5	12
350	Precipitation of icosahedral quasicrystalline phase in metallic Zr ₆₅ Al _{7.5} Ni ₅ Cu _{17.5} Re ₅ glass. <i>Materials Letters</i> , 2001 , 50, 318-321	3.3	12
349	Formation, Thermal Stability and Mechanical Properties of New Amorphous Al ₈₉ Fe ₁₀ Zr ₁ Alloy. <i>Materials Transactions, JIM</i> , 1998 , 39, 866-869		12
348	High-strength bulk nanocrystalline alloys in a Zr-based system containing compound and glassy phases. <i>Journal of Non-Crystalline Solids</i> , 1999 , 250-252, 724-728	3.9	12
347	Thermal Properties of Zr-TM-B and Zr-TM-Ga (TM=Co, Ni, Cu) Amorphous Alloys with Wide Range of Supercooling. <i>Materials Transactions, JIM</i> , 1995 , 36, 1411-1419		12
346	Recent Topics on the Structure and Crystallization of Al-based Glassy Alloys. <i>Materials Research</i> , 2019 , 22,	1.5	11

345	Structural Relaxation, Glass Transition, Viscous Formability, and Crystallization of Zr-Cu Based Bulk Metallic Glasses on Heating. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 2642-2648	2.3	11
344	Two-stage-like glass transition and the glass-forming ability of a soft magnetic Fe-based glassy alloy. <i>Journal of Applied Physics</i> , 2009 , 105, 053518	2.5	11
343	Heat capacity measurements on a thin ribbon sample of Zr _{0.55} Al _{0.10} Ni _{0.05} Cu _{0.30} glassy alloy and Apiezon N high vacuum grease using a Quantum Design Physical Property Measurement System. <i>Cryogenics</i> , 2009 , 49, 185-191	1.8	11
342	Fabrication of nanodot array mold with 2 Tdot/in.2 for nanoimprint using metallic glass. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 061602	1.3	11
341	Effect of Sn on microwave-induced heating and sintering of Ni-based metallic glassy alloy powders. <i>Intermetallics</i> , 2009 , 17, 274-277	3.5	11
340	Formation and thermal stability of new Zr-Cu-based bulk glassy alloys with unusual glass-forming ability. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 112-115	5.7	11
339	Composition Control of Pd-Cu-Si Metallic Glassy Alloys for Thin Film Hydrogen Sensor. <i>Materials Transactions</i> , 2010 , 51, 2133-2138	1.3	11
338	Thermal conductivity of metallic glassy alloys and its relationship to the glass forming ability and the observed cooling rates. <i>Journal of Materials Research</i> , 2008 , 23, 2283-2287	2.5	11
337	Gd-Ni-Al bulk glasses with great glass-forming ability and better mechanical properties. <i>Journal of Materials Science</i> , 2007 , 42, 8662-8666	4.3	11
336	Local structure characterization in quasicrystal-forming Zr ₈₀ Pt ₂₀ binary amorphous alloy. <i>Applied Physics Letters</i> , 2007 , 91, 111901	3.4	11
335	Microstructure and Corrosion Resistance of Ti-Zr-Cu-Pd-Sn Glassy and Nanocrystalline Alloys. <i>Materials Transactions</i> , 2007 , 48, 167-170	1.3	11
334	Mechanical Property and Corrosion Resistance Evaluations of Ti-6Al-7Nb Alloy Brazed with Bulk Metallic Glasses. <i>Materials Transactions</i> , 2007 , 48, 2235-2243	1.3	11
333	Shear-Band Deformation in Amorphous Alloys and Composites. <i>Materials Transactions</i> , 2006 , 47, 817-821	1.3	11
332	Systematic measurement of thermal diffusivity of Pd ₄₀ Cu ₄₀ Ni _x P ₂₀ (x=0,10,40) alloys in liquid, glassy, crystallized, and supercooled liquid states by the laser flash method. <i>Physical Review B</i> , 2004 , 70,	3.3	11
331	Discharge capacities of melt-spun Mg-Ni-Pd amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2003 , 358, 173-176	5.7	11
330	High strength and ductile bulk Ti-Ni-Cu-Nb alloy with submicron-size structure units obtained by arc-melting. <i>Journal of Alloys and Compounds</i> , 2004 , 375, 171-174	5.7	11
329	Undercooling Behavior and Critical Cooling Rate of Pd-Pt-Cu-P Alloy. <i>Materials Transactions</i> , 2005 , 46, 2807-2810	1.3	11
328	Precipitation of Nano-Scale Icosahedral Quasicrystalline Phase in Amorphous Hf ₇₃ Pd ₂₇ Alloy. <i>Materials Transactions</i> , 2001 , 42, 176-178	1.3	11

327	Precipitation of icosahedral quasicrystalline and crystalline approximant phases in Zr ₅₅ Ti ₃₅ (Co, Rh or Ir) metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2002 , 306, 175-181	3.9	11
326	Precipitation of nanoscale icosahedral quasicrystalline phase in Hf ₅₀ Ti ₅₀ amorphous alloy promoted by the addition of Ni. <i>Materials Letters</i> , 2001 , 51, 203-207	3.3	11
325	Formation and stability of quasicrystals.. <i>Bulletin of the Japan Institute of Metals</i> , 1990 , 29, 782-788		11
324	High Glass-Forming Ability and Unusual Deformation Behavior of New Zr-Cu-Fe-Al Bulk Metallic Glasses. <i>Materials Science Forum</i> , 2010 , 654-656, 1042-1045	0.4	10
323	Cap casting and enveloped casting techniques for Zr ₅₅ Cu ₃₀ Ni ₅ Al ₁₀ glassy alloy rod with 32 mm in diameter. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012043	0.3	10
322	Glass formation, chemical properties and surface analysis of Cu-based bulk metallic glasses. <i>International Journal of Molecular Sciences</i> , 2011 , 12, 2275-93	6.3	10
321	Another clue to understand the yield phenomenon at the glassy state in a Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ metallic glass. <i>Materials Letters</i> , 2008 , 62, 1592-1594	3.3	10
320	Glass-forming ability and crystallization behavior of some binary and ternary Ni-based glassy alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 460, 409-413	5.7	10
319	Elastic Properties of Pd-Based Bulk Metallic Glasses Studied by Ultrasound Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 3807-3810	1.4	10
318	Bioactivity of titanium-based bulk metallic glass surfaces via hydrothermal hot-pressing treatment. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 115-117	1	10
317	Synthetic relationship between titanium and alloying elements in designing Ni-free Ti-based bulk metallic glass alloys. <i>Applied Physics Letters</i> , 2007 , 91, 053106	3.4	10
316	Process development of metallic glass wires by a groove quenching technique for production of coil springs. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 248-252	5.3	10
315	Influence of crystallization on the deformation behavior of Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ bulk metallic glass in the supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 243-247	5.3	10
314	Viscous Flow Workability of Ni-Cr-P-B Metallic Glasses Produced by Melt-Spinning in Air. <i>Materials Transactions</i> , 2007 , 48, 3176-3180	1.3	10
313	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
312	Effect of ball-milling and shot-peening on Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 430, 97-101	5.7	10
311	Bulk Metallic Glass Formation near a Quaternary Cu-Zr-Ti-Al Eutectic Point. <i>Materials Transactions</i> , 2006 , 47, 2804-2807	1.3	10
310	Microstructure and Mechanical Properties of (Zr _{0.5} Cu _{0.4} Al _{0.1}) _{100-x} Ti _x Bulk Metallic Glass Composites. <i>Materials Transactions</i> , 2006 , 47, 2571-2575	1.3	10

309	Microforming of Bulk Metallic Glasses: Constitutive Modelling and Applications. <i>Materials Transactions</i> , 2004 , 45, 1228-1232	1.3	10
308	Characteristics of Shear Bands and Fracture Surfaces of Zr ₆₅ Al _{7.5} Ni ₁₀ Pd _{17.5} Bulk Metallic Glass. <i>Materials Transactions</i> , 2005 , 46, 2870-2874	1.3	10
307	Recent Development of Highly Corrosion Resistant Bulk Glassy Alloys. <i>Materials Science Forum</i> , 2005 , 502, 225-230	0.4	10
306	Modeling of stress-strain curves for Pd ₄₀ Ni ₁₀ Cu ₃₀ P ₂₀ glass alloy under constant strain-rate deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 758-762	5.3	10
305	Nano icosahedral phase formation by crystallization of Zr-based ternary glassy alloys. <i>Scripta Materialia</i> , 2001 , 44, 1245-1249	5.6	10
304	Effect of Sn addition on the glass-forming ability in (Cu ₄₀ Ti ₃₀ Ni ₁₅ Zr ₁₀)(100-x)/95Sn _x (x = 0, 2, 4, 6 and 8) alloys. <i>Scripta Materialia</i> , 2000 , 42, 923-927	5.6	10
303	Microstructure of Rapidly Solidified Al-V-Ce-M (M=Fe, Co or Ni) High Strength Alloys Containing High Volume Fraction of Fine Icosahedral Precipitation. <i>Materials Transactions, JIM</i> , 1995 , 36, 1004-1011		10
302	Structural relaxation of aluminum-lanthanide metal-transition metal amorphous alloys upon low temperature annealing. <i>Journal of Non-Crystalline Solids</i> , 1991 , 127, 233-241	3.9	10
301	Highly efficient nanoporous CoBP electrocatalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 2021 , 40, 1031-1039	5.5	10
300	Synthesis of Br-doped TiO ₂ hollow spheres with enhanced photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	9
299	Structural relaxation and crystallization processes in Cu ₅₅ Hf ₂₅ Ti ₁₅ Pd ₅ metallic glassy alloy. <i>Intermetallics</i> , 2012 , 23, 177-181	3.5	9
298	Glassy alloy composites for bit-patterned-media. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S145-S147	5.7	9
297	Enhanced glass-forming ability of FeCoBSiNb bulk glassy alloys prepared using commercial raw materials through the optimization of Nb content. <i>Journal of Applied Physics</i> , 2010 , 107, 09A315	2.5	9
296	Formation and properties of new Cu-based bulk glassy alloys with critical diameters up to 1.5 cm. <i>Journal of Materials Research</i> , 2009 , 24, 2935-2940	2.5	9
295	Effect of B addition to hypereutectic Ti-based alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 474, 131-137	3.7	9
294	Tailoring Thermally Induced Nano-Quasicrystallization and Deformation-Assisted Nanocrystallization for Mechanical Property Improvement in Zr-Al-Ni-Cu-Pd Bulk Metallic Glasses. <i>Materials Transactions</i> , 2009 , 50, 2079-2086	1.3	9
293	Interfacial Microstructure and Thermal Stability of Zr ₅₅ Cu ₃₀ Ni ₅ Al ₁₀ Metallic Glass Joints Formed by Ultrasonic Bonding. <i>Materials Transactions</i> , 2009 , 50, 1263-1268	1.3	9
292	Unusual Glass-Forming Ability of New Zr-Cu-Based Bulk Glassy Alloys Containing an Immiscible Element Pair. <i>Materials Transactions</i> , 2008 , 49, 2743-2746	1.3	9

291	Improvement of Plasticity in Pd Containing Zr-Al-Ni-Cu Bulk Metallic Glass by Deformation-Induced Nano Structure Change. <i>Materials Transactions</i> , 2008 , 49, 2732-2736	1.3	9
290	Thermal Elasticity in Glassy Alloys based on Topology of Metallic Clusters. <i>Applied Physics Letters</i> , 2007 , 91, 171908	3.4	9
289	High Specific Strength and Improved Ductility of Bulk (Mg _{0.65} Cu _{0.25} Gd _{0.1}) _{100-x} Ti _x Metallic Glass Composites. <i>Materials Transactions</i> , 2007 , 48, 3193-3196	1.3	9
288	Enhancement of glass-forming ability of FeGaPCB bulk glassy alloy with high saturation magnetization. <i>Intermetallics</i> , 2007 , 15, 655-658	3.5	9
287	Nanocrystalline structure and Mechanical Properties of Vapor Quenched Al-Zr-Fe Alloy Sheets Prepared by Electron-Beam Deposition. <i>Materials Transactions</i> , 2003 , 44, 1948-1954	1.3	9
286	Nanocrystal reinforced Hf ₆₀ Ti ₁₅ Ni ₁₅ Cu ₁₀ metallic glass by melt-spinning. <i>Journal of Alloys and Compounds</i> , 2003 , 352, 265-269	5.7	9
285	Preparation and properties study of bulk Fe _{75.5} Ga ₃ P _{10.5} C ₄ B ₄ Si ₃ metallic glass ring by copper mold casting. <i>Intermetallics</i> , 2004 , 12, 1261-1264	3.5	9
284	Formation, Crystallized Structure and Magnetic Properties of Fe-Ni-B Amorphous Alloys. <i>Materials Transactions</i> , 2005 , 46, 891-894	1.3	9
283	Factors influencing glass formation in rapidly solidified Si ₃ Ge ₁ Ni ₁ and Si ₃ Ge ₁ Ni ₁ D alloys. <i>Applied Physics Letters</i> , 2002 , 80, 1556-1558	3.4	9
282	Thermal Stability and Soft Magnetic Properties of (Fe, Co)-(Nd, Dy)-B Glassy Alloys with High Boron Concentrations. <i>Materials Transactions</i> , 2002 , 43, 1974-1978	1.3	9
281	Synthesis of ZrC/Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ metallic-glass matrix composite powders by high pressure gas atomization. <i>Scripta Materialia</i> , 2000 , 43, 1119-1124	5.6	9
280	Phase Transformation of Zr ₆₅ Cu _{27.5} Al _{7.5} Metallic Glass. <i>Materials Transactions, JIM</i> , 1999 , 40, 1117-1122		9
279	Effect of Dy Addition on the Thermal Stability and Magnetic Properties of the Fe-Ni-Co-Ni-B Amorphous Alloys with Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 2000 , 41, 696-700		9
278	Consolidation and Their Mechanical Properties of Amorphous Mg _{87.5} Cu ₅ Y _{7.5} and Mg ₇₀ Ca ₁₀ Al ₂₀ Powders Produced by High Pressure Gas Atomization. <i>Materials Transactions, JIM</i> , 1995 , 36, 977-981		9
277	Soft-Magnetic Properties of Nanocrystalline bcc Fe-Ni-(Nb, Zr)-B Bulk Alloys Consolidated by Warm Extrusion. <i>Materials Transactions, JIM</i> , 1995 , 36, 945-951		9
276	Properties of Bulk Materials Produced by Extrusion of Amorphous Alloy Powders in Al-Ni-R(R=Y, Mn: misch metal) Systems.. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1991 , 38, 953-956	0.2	9
275	Glass Transition Behavior of Fe-Ni-Al-Ni-B-Si Amorphous Alloys. <i>Materials Transactions, JIM</i> , 1990 , 31, 1021-1027		9
274	The Development of Structure Model in Metallic Glasses. <i>Materials Research</i> , 2017 , 20, 326-338	1.5	8

273	Ductile Fe-based bulk metallic glasses at room temperature. <i>Materials Science and Technology</i> , 2018 , 34, 751-756	1.5	8
272	Plastic Working of Metallic Glass Bolts by Cold Thread Rolling. <i>Materials Transactions</i> , 2011 , 52, 243-249	1.3	8
271	Enhancement of soft magnetic properties of FeCoNbB nanocrystalline alloys with Cu and Ni additions. <i>Thin Solid Films</i> , 2011 , 519, 8280-8282	2.2	8
270	Structure, mechanical properties and imprint-ability of PdCuNiB glassy alloy thin film prepared by a pulsed-laser deposition method. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 1542-1545	3.9	8
269	Development of novel metallic glass/polymer composite materials by microwave heating in a separated H-field. <i>Materials Letters</i> , 2010 , 64, 235-238	3.3	8
268	Effect of Cr Addition on the Glass-Forming Ability, Magnetic, Mechanical and Corrosion Properties of (Fe _{0.76} Si _{0.096} B _{0.096} P _{0.048}) _{100-x} Crx Bulk Glassy Alloys. <i>Materials Transactions</i> , 2008 , 49, 2887-2890	1.3	8
267	Mechanical properties and corrosion behavior of (Cu _{0.6} Hf _{0.25} Ti _{0.15}) ₉₀ Nb ₁₀ bulk metallic glass composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 230-234	5.3	8
266	Formation and properties of new Ni ₃ Al-based bulk glassy alloys with large supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 690-694	5.3	8
265	Ultrasonic attenuation properties of glassy alloys in views of complex viscoelasticity. <i>Applied Physics Letters</i> , 2007 , 90, 131902	3.4	8
264	Fe-Metalloid Metallic Glasses with High Magnetic Flux Density and High Glass-Forming Ability. <i>Materials Science Forum</i> , 2007 , 561-565, 1361-1366	0.4	8
263	Analysis of Bulk Metallic Glass Formation Using a Tetrahedron Composition Diagram that Consists of Constituent Classes Based on Blocks of Elements in the Periodic Table. <i>Materials Transactions</i> , 2007 , 48, 1304-1312	1.3	8
262	Formation of a Ni-Based Glassy Alloy in Centimeter Scale. <i>Materials Transactions</i> , 2007 , 48, 1355-1358	1.3	8
261	Formation and Properties of New La-Based Bulk Glassy Alloys with Diameters up to Centimeter Order. <i>Materials Transactions</i> , 2007 , 48, 68-73	1.3	8
260	Microstructure of tensile fracture in nanicosahedral quasicrystal dispersed Zr ₈₀ Pt ₂₀ amorphous alloy. <i>Scripta Materialia</i> , 2004 , 50, 1297-1301	5.6	8
259	Formation, Thermal Stability and Mechanical Properties of Aluminum-Based Glassy Alloys Containing Boron. <i>Materials Transactions</i> , 2004 , 45, 1204-1209	1.3	8
258	Fabrication of Fe-Based Glassy Cores with High Saturation Magnetization and Good Soft Magnetic Properties by Spark Plasma Sintering. <i>Materials Science Forum</i> , 2005 , 475-479, 3397-3400	0.4	8
257	Hard Magnetic Properties and Nanocrystallized Structure of Fe _{66.5} Co ₁₀ Pr _{3.5} B ₂₀ Glassy Alloy. <i>Materials Transactions</i> , 2001 , 42, 1543-1546	1.3	8
256	Crystallization processes from supercooled liquid of Cu ₄₀ Ti ₃₀ Ni ₁₅ Zr ₁₀ Sn ₅ and Zr ₆₀ Ni ₂₅ Al ₁₅ amorphous alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 380-384	5.3	8

255	Initial crystallization processes of Zr-Cu-Rh metallic glasses. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, L803-L809	1.8	8
254	The influence of cooling rate on the formation of an amorphous phase in Si-based multicomponent alloys and its thermal stability. <i>Materials Research Bulletin</i> , 1999 , 34, 1165-1172	5.1	8
253	The structure and phase transformation behavior of rapidly solidified alloys in the Ge ₄₀ Al ₁₀ system. <i>Materials Research Bulletin</i> , 1999 , 34, 1991-2001	5.1	8
252	Ge-Al-Cr-La amorphous alloys containing crystalline-like zones. <i>Scripta Materialia</i> , 1999 , 11, 115-123		8
251	Bulk Amorphous FC20 (Fe‐C‐Si) Cast Iron with Small Addition of B. <i>Materials Transactions, JIM</i> , 1999 , 40, 634-642		8
250	Synthesis of Fe‐Co‐Nd‐B Amorphous Alloys with Glass Transition and their Crystallization-Induced Hard Magnetic Properties. <i>Materials Transactions, JIM</i> , 1999 , 40, 1123-1129		8
249	The formation of decagonal and icosahedral phases in Al ₇₅ Pd ₂₅ Cr _x (x . <i>Journal of Applied Physics</i> , 1991 , 69, 2728-2730	2.5	8
248	Preparation of a new Al-Cu-Ru quasicrystal with large grain sizes by rapid solidification. <i>Journal of Materials Science Letters</i> , 1989 , 8, 253-256		8
247	Soft Magnetic Materials 2020 , 10-10		7
246	Local atomic structure of Ni ₆₀ Pd ₂₀ P ₂₀ and Ni ₆₀ Pd ₂₀ P ₁₇ B ₃ bulk metallic glasses and the origin of glass forming ability. <i>Journal of Alloys and Compounds</i> , 2010 , 496, 135-139	5.7	7
245	Synthesis, structure and mechanical properties of Zr-Cu-based bulk metallic glass composites. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010 , 17, 208-213	3.1	7
244	Comparison of Fatigue Strengths of Bulk Metallic Glasses Produced by Tilt Casting and High-Pressure Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 1780-1786	2.3	7
243	Chapter 161 Amorphous, quasicrystalline and nanocrystalline alloys in Al- and Mg-based systems. <i>Fundamental Theories of Physics</i> , 1997 , 83-219	0.8	7
242	Melt-spun L ₁₀ Fe ₈₀ (Zr, Nb and Ti) ₂₀ nanocrystalline alloys with high coercivity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 66-70	5.3	7
241	Formation and Applications of Bulk Glassy Alloys in Late Transition Metal Base System. <i>AIP Conference Proceedings</i> , 2006 ,	0	7
240	Tailoring the magnetic properties of mechanically hardest Co ₈₀ Fe ₂₀ B glassy thin films. <i>Journal of Applied Physics</i> , 2007 , 101, 09N502	2.5	7
239	Soft Magnetic Bulk Glassy Alloy Synthesized by Flux Melting and Water Quenching. <i>Materials Science Forum</i> , 2007 , 539-543, 1921-1925	0.4	7
238	Role of nanocrystals in ductile Ni ₈₀ P ₂₀ metallic glass. <i>Journal of Alloys and Compounds</i> , 2007 , 441, 131-134	5.7	7

- 237 Synthesis and Thermal Stability of New Ni-Based Bulk Glassy Alloy with Excellent Mechanical Properties. *Materials Transactions*, **2006**, 47, 2358-2362 1.3 7
- 236 Effects of Additional Hf on the Thermal Stability and Mechanical Properties of Cu-Zr-Ag Bulk Glassy Alloys. *Materials Transactions*, **2006**, 47, 1922-1925 1.3 7
- 235 Hydrogen Permeation of Ni-Nb-Zr Metallic Glasses in a Supercooled Liquid State. *Materials Transactions*, **2006**, 47, 2991-2996 1.3 7
- 234 Ce-Cu-Fe-Al-Si Bulk Metallic Glass Alloys With High Glass Forming Ability. *Materials Transactions*, **2005**, 46, 2541-2544 1.3 7
- 233 Nano Icosahedral Quasicrystalline Phase in Zr₆₅Al_{7.5}Ni₁₀Ag_{17.5} Quaternary Glassy Alloy. *Materials Transactions*, **2001**, 42, 1493-1496 1.3 7
- 232 In-situ observation of the early stage of crystallization in undercooled Pd-Cu-Ni-P melt. *Scripta Materialia*, **2001**, 44, 1261-1267 5.6 7
- 231 Microstructure and elevated-temperature strength of P/M Al-(Cr or Mn)-Fe-(Ti or V) quaternary alloys containing quasicrystalline phase. *Keikinzoku/Journal of Japan Institute of Light Metals*, **1998**, 48, 494-500 0.3 7
- 230 New Amorphous Alloys in Al-Ti Binary System. *Materials Transactions, JIM*, **1998**, 39, 773-777 7
- 229 Growth of a Single Al₆₄Cu₂₃Fe₁₃ Icosahedral Quasicrystal Using the Czochralski Method and Annealing Removal of Strains. *Materials Transactions, JIM*, **2000**, 41, 1583-1588 7
- 228 Increase in Thermal Stability of Mg₆₂Ni₃₃Ca₅ Amorphous Alloy by Absorption of Hydrogen. *Materials Transactions, JIM*, **2000**, 41, 1486-1489 7
- 227 Soft magnetic properties of bulk nanocrystalline Fe-(Nb, Zr, Hf)-B alloys produced by extruding amorphous powders. *Journal of Magnetism and Magnetic Materials*, **1996**, 162, 95-102 2.8 7
- 226 Crystallization mechanism and stabilization of supercooled liquid during heating in Zr-Cu based metallic glasses. *Scripta Metallurgica Et Materialia*, **1993**, 29, 657-661 7
- 225 Elastic and viscous behavior of an amorphous Zr₃₃Y₂₇Al₁₅Ni₂₅ alloy with a two-stage glass transition. *Materials Letters*, **1993**, 16, 108-112 3.3 7
- 224 Stable decagonal and icosahedral quasicrystals. *Journal of Non-Crystalline Solids*, **1990**, 117-118, 824-827 3.9 7
- 223 Development and Applications of Late Transition Metal Bulk Metallic Glasses **2008**, 1-25 7
- 222 Glass-forming ability and magnetic properties of CoFeMoYB bulk glassy alloys with large supercooled liquid region. *Journal of Alloys and Compounds*, **2010**, 504, S132-S134 5.7 6
- 221 Magneto-thermo-gravimetric technique to investigate the structural and magnetic properties of Fe-B-Nb-Y Bulk Metallic Glass. *Journal of Physics: Conference Series*, **2009**, 144, 012074 0.3 6
- 220 Microwave Sintering of Ni-Based Bulk Metallic Glass Matrix Composite in a Single-Mode Applicator. *Materials Transactions*, **2008**, 49, 2850-2853 1.3 6

219	Thermal Stability and Mechanical Properties of Ti _{47.4} Cu ₄₂ Zr _{5.3} TM _{5.3} (TM = Co, Fe) Metallic Glass Sheets Prepared by Twin-Roller Casting Method. <i>Materials Transactions</i> , 2008 , 49, 498-501	1.3	6
218	Effects of additional Ag on the thermal stability and glass-forming ability of La ₄₀ Al ₁₀ Cu bulk glassy alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 119-123	3.1	6
217	Brazing of Cu with Pd-based metallic glass filler. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 128-131	3.1	6
216	Softening and heating behaviors during the nonlinear viscous flow in a Zr-based bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3764-3768	3.9	6
215	Ultrasonic characteristics of porous Pd _{42.5} Cu ₃₀ Ni _{7.5} P ₂₀ glassy alloys. <i>Journal of Applied Physics</i> , 2007 , 102, 083502	2.5	6
214	Change in environmental structure around Al in Zr ₆₀ Ni ₂₅ Al ₁₅ metallic glass upon crystallization studied by nuclear magnetic resonance. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 3587-3592	3.9	6
213	Temperature-Time-Transformation Curve and Viscous Flow Deformation of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ Bulk Glassy Alloy. <i>Materials Transactions</i> , 2006 , 47, 2308-2311	1.3	6
212	Microstructure and Mechanical Properties of Cr, Mo, Fe, Ta Modified Pd-Ni-Cu-P Glassy Alloys Prepared by Copper-Mold Casting. <i>Materials Transactions</i> , 2003 , 44, 188-196	1.3	6
211	Crystallization and Magnetic Properties of Fe ₄₀ Co ₄₀ Cu _{0.5} Al ₂ Zr ₉ Si ₄ B _{4.5} and Fe ₆₂ Co _{9.5} Gd _{3.5} Si ₁₀ B ₁₅ Amorphous Alloys. <i>Materials Transactions</i> , 2003 , 44, 1562-1565	1.3	6
210	Change in local atomic structure during formation of the icosahedral quasicrystalline phase in Zr ₇₀ Pd ₃₀ glassy alloy. <i>Journal of Materials Research</i> , 2001 , 16, 3046-3049	2.5	6
209	Mechanically Induced Solid-State Reaction for Synthesizing New Multicomponent Ta ₅₅ Zr ₁₀ Ni ₁₀ Al ₁₀ Cu ₁₅ Glassy Alloy Powders with Extremely Wide Supercooled Liquid Region. <i>Materials Transactions</i> , 2002 , 43, 1422-1425	1.3	6
208	Calculations of Crystallization Temperature of Multicomponent Metallic Glasses. <i>Materials Transactions</i> , 2002 , 43, 2275-2284	1.3	6
207	New V ₄₅ Zr ₂₀ Ni ₂₀ Cu ₁₀ Al _{2.5} Pd _{2.5} Glassy Alloy Powder with Wide Supercooled Liquid Region. <i>Materials Transactions</i> , 2002 , 43, 770-772	1.3	6
206	Experimental Measurements of Nucleation Frequency and Crystal Growth Rate in Pd-Cu-Ni-P Metallic Glass. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 554, 125		6
205	Ti-Containing Zr Based Bulk Amorphous/Nanocrystalline Composite Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1467-1470		6
204	Structural analysis of amorphous Zr ₇₀ Y ₁₀ Al ₁₀ Ni alloy by anomalous X-ray scattering. <i>Journal of Non-Crystalline Solids</i> , 1995 , 192-193, 376-379	3.9	6
203	The observation of mechanical relaxation in a quasicrystalline Al ₇₅ Cu ₁₅ V ₁₀ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 181-182, 781-784	5.3	6
202	Preparation of nanoporous Sn-doped TiO ₂ anode material for lithium-ion batteries by a simple dealloying method. <i>Ionics</i> , 2020 , 26, 4363-4372	2.7	5

201	Influence of laser surface melting treatment on the surface composition and mechanical properties of a Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{12.5} Ag ₅ bulk metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2018 , 488, 63-68	3.9	5
200	Surface modified Ti based metallic glasses for bioactivation by electrochemical treatment technique. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S136-S141	5.7	5
199	Ti-Based Bulk Metallic Glasses for Biomedical Applications 2011 ,		5
198	Effect of Strain Rate on Tensile and Compressive Plastic Deformation of Zr ₇₀ Ni ₁₆ Cu ₆ Al ₈ Bulk Metallic Glass. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2010 , 59, 118-123	0.1	5
197	Compositional Dependence of the Viscosity of Zr-Cu-Al Alloys in the Supercooled Liquid State. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2010 , 59, 124-129	0.1	5
196	Effect of Co concentration on thermal stability and magnetic properties of (Fe,Co) _{100-x} Nb ₁₀ B ₁₀ glassy alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S129-S131	5.7	5
195	Mechanical Properties of Soft Magnetic (Fe _{0.76} Si _{0.096} B _{0.084} P _{0.06}) _{100-x} Cu _x (x=0 and 0.1) Bulk Glassy Alloys. <i>Materials Transactions</i> , 2009 , 50, 1286-1289	1.3	5
194	Corrosion properties of Co ₄₃ Fe ₂₀ Ta _{5.5} B _{31.5} bulk glassy alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 460, L11-L13	5.7	5
193	Synthesis of soft/hard magnetic FePt-based glassy alloys with supercooled liquid region. <i>Journal of Applied Physics</i> , 2008 , 104, 103540	2.5	5
192	Effect of Particle Size Distribution of the Feedstock Powder on the Microstructure of Bulk Metallic Glass Sprayed Coating by HVOF on Aluminum Alloy Substrate. <i>Materials Science Forum</i> , 2008 , 580-582, 467-470	0.4	5
191	Strain Rate Dependence of Tensile Behavior in Hypoeutectic Zr-Cu-Al Bulk Metallic Glass. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2008 , 72, 722-727	0.4	5
190	Investigation of a rapidly solidified Al-based nanocomposite with extremely high number density of precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 1026-1028	5.3	5
189	A study of glass-formation, formation of the supercooled liquid and devitrification behavior of Ni-based bulk glass-forming alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 198-202	5.3	5
188	Thermal expansion of an amorphous alloy. Reciprocal-space versus real-space distribution functions. <i>Physica B: Condensed Matter</i> , 2007 , 388, 290-293	2.8	5
187	Change of Nanostructure in (Fe _{0.5} Co _{0.5}) ₇₂ B ₂₀ Si ₄ Nb ₄ Metallic Glass on Annealing. <i>Materials Science Forum</i> , 2007 , 539-543, 2077-2081	0.4	5
186	Alternative Strain Aging Effect for Fatigue of Ductile Bulk Glassy Alloys. <i>Materials Transactions</i> , 2007 , 48, 1261-1265	1.3	5
185	Preparation of a Wide Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ Metallic Glass Sheet by a Twin-Roller Type Casting Method and Its Mechanical Properties. <i>Materials Transactions</i> , 2006 , 47, 1926-1929	1.3	5
184	New Ce-Cu-Al-Zn Bulk Metallic Glasses with High Oxidation Resistance. <i>Materials Transactions</i> , 2006 , 47, 2599-2602	1.3	5

183	Amorphous Co-Ni-P Alloys with High Saturation Magnetization Produced by Electrodeposition. <i>Materials Transactions</i> , 2003 , 44, 911-916	1.3	5
182	Bulk metallic glasses for industrial products; New structural and functional applications. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 806, 41		5
181	Precipitation of icosahedral quasicrystalline phase in Hf _{69.5} Al _{7.5} Ni ₁₁ Cu ₁₂ metallic glass. <i>Journal of Materials Research</i> , 2001 , 16, 1190-1194	2.5	5
180	Formation of Zr ₇₀ Ni ₂₃ Ti ₇ Glassy Alloy and Phase Transformation upon Annealing. <i>Journal of Materials Research</i> , 2002 , 17, 693-696	2.5	5
179	Thermal Stability and Magnetic Properties of Fe-Co-Pr-B Amorphous Alloys with a Supercooled Liquid Region. <i>Materials Transactions, JIM</i> , 2000 , 41, 1482-1485		5
178	Effects of Thermal Treatment on Structure of Fe-Co-Ni-Zr-B Glassy Alloy with a Large Supercooled-Liquid Region Studied by Mössbauer Spectroscopy. <i>Materials Transactions, JIM</i> , 2000 , 41, 1392-1396		5
177	Aluminum-base Amorphous Powders with Flaky Morphology Prepared by a Two-Stage Quenching Technique. <i>Materials Transactions, JIM</i> , 1989 , 30, 1033-1043		5
176	Dual-phase nanostructuring as a route to flexible nanoporous metals with outstanding comprehensive mechanical properties. <i>Science China Materials</i> , 2021 , 64, 2289-2304	7.1	5
175	Interpreting temperature evolution of a bulk-metallic glass during cyclic loading through spatial-temporal modeling. <i>Intermetallics</i> , 2012 , 29, 1-13	3.5	4
174	Consolidation Behavior of Cu-Zr-Al Metallic Glass Powder by Spark Plasma Sintering. <i>Materials Science Forum</i> , 2010 , 654-656, 1086-1089	0.4	4
173	Deformation-induced structural transformation leading to compressive plasticity in Zr ₆₅ Al _{7.5} Ni ₁₀ Cu _{12.5} M ₅ (M = Nb, Pd) glassy alloys. <i>Journal of Materials Research</i> , 2010 , 25, 1149-1158	2.5	4
172	Effect of Nb on Transformation Kinetics and Mechanical Properties in Zr-Al-Ni-Cu Metallic Glasses. <i>Materials Transactions</i> , 2010 , 51, 1188-1193	1.3	4
171	Microstructure in a Ni ₆₀ Pd ₂₀ P ₁₇ B ₃ bulk metallic glass compressively fractured at cryogenic temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 391-396	5.3	4
170	Production of bulk glassy alloy foams by high pressure hydrogen. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 447, 254-260	5.3	4
169	High glass-forming CeCuFeAlSi bulk metallic glass alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 114-117	5.3	4
168	Direct observation of the changes in atomic arrangement of Cu ₅₀ Zr ₅₀ metallic glass during tensile deformation by EXAFS. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 44-47	5.7	4
167	A glance on the glass-transition phenomenon from the viewpoint of devitrification. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 121-125	5.7	4
166	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

165	Mechanical Properties and Fracture Characteristics of Zr-Based Bulk Metallic Glass Composites Containing Carbon Nanotube Addition. <i>Journal of Materials Research</i> , 2004 , 19, 1068-1076	2.5	4
164	Production of Glassy Coil Springs by Warm Coiling of Zr-based Glassy Alloy Wires. <i>Materials Transactions</i> , 2004 , 45, 2788-2790	1.3	4
163	Specific Heat Measurements of Pd-based Alloy in the Liquid State by the Heat-Flux Type DSC with Triple Cells. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2004 , 68, 499-502	0.4	4
162	Electrical Resistivity Measurements of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Alloy in Supercooled Liquid and Liquid State. <i>Materials Transactions</i> , 2004 , 45, 2584-2586	1.3	4
161	Thermal Stability and Magnetic Properties of Fe-Nd-Al Amorphous Alloys. <i>Materials Transactions</i> , 2005 , 46, 2844-2847	1.3	4
160	Retraction:Nanoindentation Characteristics of In-Situ Formed Cu-Hf-Ti-Ag-Ta Bulk Metallic Glass Composites. <i>Materials Transactions</i> , 2005 , 46, 798-804	1.3	4
159	Primary precipitation of icosahedral quasicrystal with rearrangement of constitutional elements in Zr ₆₅ Al _{7.5} Cu _{27.5} glassy alloy with low oxygen impurity. <i>Journal of Materials Research</i> , 2005 , 20, 303-306	2.5	4
158	The influence of rare earth metals on the structure of some rapidly solidified Ge- and Si-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 505-509	5.3	4
157	Formation and Mechanical Strength of Bulk Glassy Alloys in Zr-Al-Co-Cu System. <i>Materials Transactions</i> , 2002 , 43, 1250-1253	1.3	4
156	Bulk Glassy Pd-Cu-Ni-Cr-P Alloys Containing Dispersed Nanoparticles Prepared by Copper-Mold Casting. <i>Materials Transactions</i> , 2002 , 43, 1737-1740	1.3	4
155	Structure and transformation behaviour of rapidly solidified Ni-Al-Hf alloys. <i>Journal of Alloys and Compounds</i> , 2002 , 340, 151-156	5.7	4
154	Preparation and Soft Magnetic Properties of Fe-P-B-Ge Amorphous Alloys. <i>Materials Transactions, JIM</i> , 1999 , 40, 1444-1449		4
153	Formation Range and Thermal Stability of Cu-rich Cu-Mg-Ln (Ln=La, Sm, Eu, Tb, Er or Lu) Amorphous Alloys Tinged with Gold Color. <i>Materials Transactions, JIM</i> , 1996 , 37, 1343-1349		4
152	Pd-Based Multicomponent Nanoporous Metals with Enhanced Electrocatalytic Performance Prepared by Dealloying Metallic Glass. <i>Rare Metal Materials and Engineering</i> , 2015 , 44, 54-57		3
151	Suppression of Crystallization in Ti-Based Alloys by Fluxing. <i>Materials Transactions</i> , 2011 , 52, 458-463	1.3	3
150	Microwave-Induced Sintering of Cu-Based Metallic Glass Matrix Composites in a Single-Mode 915-MHz Applicator. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1463-1467	2.3	3
149	Cast of Bulk Glassy Alloys. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2009 , 58, 193-198	0.1	3
148	The Effect of Co Addition on Glassy Forming Ability and Soft Magnetic Properties of Fe-Si-B-P Bulk Metallic Glass. <i>Key Engineering Materials</i> , 2012 , 508, 112-116	0.4	3

- 147 Microstructure of Bonding Interface for Resistance Welding of Zr-Based Metallic Glass Sheets. *Materials Transactions*, **2009**, 50, 1259-1262 1.3 3
- 146 Displacement Behavior Study of the Shear Stress Effect on the Early Viscous Flow Nature of Fe-B-Nb-Y Metallic Glassy Powder in Spark Plasma Sintering. *Materials Transactions*, **2009**, 50, 490-493 1.3 3
- 145 Development of W-Reinforced Zr-Based Metallic Glass. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2010**, 74, 85-88 0.4 3
- 144 Ni-Nb-Sn Bulk Metallic Glass Matrix Composites Fabricated by Microwave-Induced Sintering Process. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 1714-1719 2.3 3
- 143 Effect of Nb Concentration on Thermal Stability and Glass-Forming Ability of Soft Magnetic (Fe,Co)-Gd-Nb-B Glassy Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 1685-1690 2.3 3
- 142 Structural Study of Amorphous Fe₈₉Nd₇B₄ and Fe₈₉Zr₇B₄ Alloys by X-ray Diffraction. *High Temperature Materials and Processes*, **1997**, 16, 57-64 0.9 3
- 141 Bulk Metallic Glass Formation by Melting Liquid Joining Method. *Materials Transactions*, **2008**, 49, 1419-1422 1.3 3
- 140 Glass Forming Ability and Mechanical Properties of New Ni-Based Bulk Metallic Glasses. *Materials Transactions*, **2008**, 49, 494-497 1.3 3
- 139 Hot-Press Workability of Ni-based Glassy Alloys in Supercooled Liquid State and Production of the Glassy Alloy Separators for Proton Exchange Membrane Fuel Cell. *Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2007**, 54, 773-777 0.2 3
- 138 In situ analysis of the thermal behavior in the Zr-based multi-component metallic thin film by pulsed laser deposition combined with UHV-laser microscope system. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2008**, 148, 179-182 3.1 3
- 137 Devitrification of Hf₆₀Ni₄₀ glassy alloy on heating. *Thin Solid Films*, **2006**, 509, 75-80 2.2 3
- 136 Internal Friction and Mechanical Strength of Hydrogenated Ti-Rich Multicomponent Glassy Alloys. *Key Engineering Materials*, **2006**, 319, 139-144 0.4 3
- 135 Structural Characterization of Cu₅₀Zr₄₅Ti₅ Glassy Alloy under Thermal Annealing and Electron Irradiation. *Materials Science Forum*, **2007**, 561-565, 2045-2048 0.4 3
- 134 Production of Bulk Glassy Alloy Parts by a Levitation Melting-Forging Method. *Materials Transactions*, **2006**, 47, 2072-2075 1.3 3
- 133 Etude d'alliages formant des verres métalliques massifs, par rayonnement synchrotron de haute énergie. *Annales De Chimie: Science Des Matériaux*, **2002**, 27, 107-112 2.1 3
- 132 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
- 131 Bulk Glassy Fe-Mo-Ga-P-C-B-Si Alloys with High Glass-Forming Ability and Good Soft Magnetic Properties. *Materials Transactions*, **2005**, 46, 2773-2776 1.3 3
- 130 Measurements of the electrical resistance and the hydrogen depth distribution for Ni₆₀Nb₂₀Zr₂₀ amorphous alloy before and after hydrogen charging. *Solid State Communications*, **2005**, 133, 511-513 1.6 3

129	Stability and thermodynamics of primary precipitation in supercooled Pd ₄₀ Cu ₄₀ Ni ₂₀ melt. <i>Journal of Non-Crystalline Solids</i> , 2002 , 312-314, 575-580	3.9	3
128	Formation of nanocrystalline nuclei in the amorphous phase of Ge ₅₅ Al ₃₀ Cr ₁₀ Y ₅ alloy. <i>Materials Letters</i> , 1999 , 39, 211-214	3.3	3
127	Production and high-strength properties of nonequilibrium bulk aluminum-based alloys.. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 1999 , 49, 214-221	0.3	3
126	Production and Properties of Functionally Gradient Films Varying from Amorphous Al(Ti, N) to Hexagonal Al(Ti)N Phase. <i>Materials Transactions, JIM</i> , 1993 , 34, 548-555		3
125	Preparation of Ultrafine Al-based Quasicrystalline Particles by Reaction between Nitrogen Plasma and Molten Alloys. <i>Materials Transactions, JIM</i> , 1994 , 35, 543-550		3
124	Preparation and electrocatalytic performance of the Pt supported on the alkali-treated nanoporous TiO ₂ material. <i>Ionics</i> , 2015 , 21, 2863-2869	2.7	2
123	Development of Powder Metallurgy Aluminum Alloys with High Strength and High Elevated Temperature Strength. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2009 , 56, 697-708	0.2	2
122	Low Temperature Heat Capacity and Thermodynamic Functions of Zr _{0.55} Al _{0.10} Ni _{0.05} Cu _{0.30} . <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2033-2037	2.8	2
121	Bulk Metallic Glassy Composites with Excellent Electrical Conductivity and Enhanced Plasticity Fabricated by Spark Plasma Sintering. <i>Materials Science Forum</i> , 2011 , 675-677, 197-200	0.4	2
120	Effect of Minor Addition of Noble Elements on Microstructure and Mechanical Properties of Ti-Based Bulk Metallic Glasses. <i>Applied Mechanics and Materials</i> , 2011 , 148-149, 241-244	0.3	2
119	Interface Microstructure and Mechanical Properties of Dissimilar Friction Stir Welded Joints between Zr ₅₅ Cu ₃₀ Ni ₅ Al ₁₀ Bulk Metallic Glass and Pure Al. <i>Materials Transactions</i> , 2012 , 53, 1106-1112	1.3	2
118	Bulk metallic glass coating of polymer substrates. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012054.	0.3	2
117	Formation and Mechanical Properties of New Cu-Rich Cu-Zr-Al-Ag Glassy Alloys with High Glass-Forming Ability. <i>Materials Transactions</i> , 2009 , 50, 679-682	1.3	2
116	Influence of Precipitation Behavior of Different Crystalline Phases for Embrittlement Behavior of Several Zr-Based Metallic Glasses. <i>Materials Transactions</i> , 2010 , 51, 2033-2038	1.3	2
115	Fabrication of Ni-Nb-Sn metallic glassy alloy powder and its microwave-induced sintering behavior. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2009 , 43, 17-22	1.4	2
114	Effects of Addition of Al, Ti and Ag on Glass-Forming Ability of Cu ₅₀ Zr ₅₀ Alloy. <i>Materials Science Forum</i> , 2007 , 561-565, 1333-1336	0.4	2
113	Effects of Additional Elements on Structure, Mechanical Strength and Chemical Properties of Ni-Free Ti-Based Bulk Metallic Glasses for Biomaterials. <i>Advanced Materials Research</i> , 2007 , 26-28, 785-788	0.5	2
112	Thermal Diffusivity of Zr-Based Bulk Glass Alloys in the Liquid State. <i>Materials Transactions</i> , 2007 , 48, 886-888	1.3	2

111	New Pd-based bulk glassy alloys with high glass-forming ability. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 138-140	5.7	2
110	?????????????????????????????????. <i>Materia Japan</i> , 2003 , 42, 413-421	0.1	2
109	A New Soft Magnetic Bulk Metallic Glass with Dual Glass Phases. <i>Materials Transactions</i> , 2003 , 44, 2410-2413	4.3	2
108	Glass Transition T _g and Quenched-In Free Volume in Bulk Metallic Glasses Measured by X-Ray Diffraction. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004 , 20-21, 23-28	0.2	2
107	Application of a Hydrogen Storage Alloy with an Amorphous Phase for Sensing Hydrogen in Water. <i>Chemistry Letters</i> , 2004 , 33, 1520-1521	1.7	2
106	Formation of Large Bulk [(Fe _{0.5} Co _{0.5}) _{0.75} B _{0.20} Si _{0.05}] ₉₆ Nb ₄ Glassy Alloy by Flux Melting and Water Quenching. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 903, 1		2
105	Precipitation of nano-scale icosahedral quasicrystalline phase in Hf-Al-Ni-Cu metallic glass promoted by addition of Ti. <i>Scripta Materialia</i> , 2001 , 44, 1257-1260	5.6	2
104	?????????????????????????????????. <i>Materia Japan</i> , 2002 , 41, 644-649	0.1	2
103	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
102	A jelly-like ceramic fiber at 1193 K. <i>Materials Research Innovations</i> , 2000 , 3, 185-189	1.9	2
101	Precipitation of nano-scale icosahedral quasicrystalline phase in amorphous Hf ₇₀ Ni ₁₀ Pd ₂₀ alloy. <i>Journal of Non-Crystalline Solids</i> , 2001 , 289, 163-167	3.9	2
100	High Dynamic Mechanical Strength of Zirconium-Based Bulk Amorphous Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 554, 361		2
99	Faceted Etch Pits Formed on Surfaces of an Icosahedral Al ₇₀ Pd ₂₀ Mn ₁₀ Quasicrystal. <i>Materials Transactions, JIM</i> , 1996 , 37, 115-120		2
98	Interface stability, growth and morphology of quasicrystals. <i>Journal of Non-Crystalline Solids</i> , 1993 , 153-154, 513-518	3.9	2
97	Cu-Rich Colored Amorphous Alloys in Cu‐Mg‐Ce System. <i>Materials Transactions, JIM</i> , 1995 , 36, 1176-1179		2
96	Microstructure of a rapidly solidified 65Al-20Cu-15Fe (at. %) alloy. <i>Journal of Materials Science</i> , 1991 , 26, 963-969	4.3	2
95	Enhancement of solderability of Cu ₆₀ Zr ₃₀ Ti ₁₀ bulk metallic glass by dealloying in hydrofluoric acid solution. <i>Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society</i> , 2011 , 29, 147s-150s	0.7	2
94	Fabrication of Molds with 25-nm Dot-Pitch Pattern by Focused Ion Beam and Reactive Ion Etching for Nanoimprint Using Metallic Glass. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 086702	1.4	2

93	Light-metal based amorphous alloys 1993 , 159-166		2
92	Microstructure and mechanical properties of TC4 joints brazed with Ti ₇₂ Zr ₁₀ Cu ₁₈ Ni amorphous filler alloy. <i>Rare Metals</i> , 2021 , 40, 1881-1889	5.5	2
91	Effects of Minor Additions on Ni- and Be-Free Ti-Based Bulk Glassy Alloys. <i>Materials Science Forum</i> , 2015 , 833, 79-84	0.4	1
90	Effects of pulse voltage on the formation of nanoporous Ti oxides by dealloying amorphous TiCu alloy. <i>Journal of Physics: Conference Series</i> , 2013 , 417, 012022	0.3	1
89	Compositional features of bulk metallic glasses analyzed with a tetrahedral composition diagram from s-, p-, d- and f-blocks. <i>International Journal of Materials Research</i> , 2012 , 103, 1102-1107	0.5	1
88	Non-equilibrium copper-based crystalline alloy sheet having ultrahigh strength and good electrical conductivity. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S361-S363	5.7	1
87	Control of wetting on Ti-based bulk metallic glass surfaces by a hydrothermal method. <i>Journal of Materials Science</i> , 2011 , 46, 3430-3435	4.3	1
86	Metallic Glass 2010 , 447-472		1
85	Preparation and Characterisation of Amorphous Alloy Membranes 2011 , 459-473		1
84	Binary Ni-Ta Bulk Metallic Glasses Designed by Using a Cluster-Plus-Glue-Atom Model. <i>Materials Science Forum</i> , 2011 , 688, 395-399	0.4	1
83	Temperature dependence of the yield strain of a Zr-based metallic glass at the glassy state. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 150-153	5.7	1
82	Interface Structure between Ti-Based Bulk Metallic Glasses and Hydroxyapatite Ceramics Jointed by Hydrothermal Techniques. <i>Materials Transactions</i> , 2009 , 50, 1308-1312	1.3	1
81	Heat Capacity and Thermodynamic Functions of Ni ₃₆ Nb ₂₄ Zr ₄₀ Glassy Alloy. <i>Materials Transactions</i> , 2009 , 50, 1247-1249	1.3	1
80	Microwave-induced sintering of NiNbTiPt metallic glass blended with Sn powders using a single-mode applicator. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012049	0.3	1
79	Effect of excess electrons on hexagonal close-packed Mg and the model clusters for bulk metallic glasses. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 155424	3	1
78	Magnetic Properties of Nanocrystalline Materials 2007 , 487-536		1
77	Analyses of glass-transition behavior of Pd-based metallic glass with linear solution to non-linear differential equation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 594-598	5.3	1
76	Ultrasonic Properties of a Ti _{47.4} Zr _{5.3} Ni _{5.3} Cu ₄₂ Glassy Alloy during Progressive Devitrification. <i>Materials Science Forum</i> , 2007 , 561-565, 1371-1374	0.4	1

75	Synthesis of New Ni-Ta-Based Bulk Glassy Alloy with High Fracture Strength of over 3000 MPa. <i>Materials Science Forum</i> , 2007 , 561-565, 1421-1424	0.4	1
74	Syntheses and Applications of Fe-, Co-, Ni- and Cu-Based Bulk Glassy Alloys. <i>Materials Science Forum</i> , 2007 , 539-543, 92-99	0.4	1
73	Fabrication of Ni _{52.5} Nb ₁₀ Zr ₁₅ Ti ₁₅ Pt _{7.5} Bulk Metallic Glassy Matrix Composite Containing Dispersed ZrO ₂ Particulates by Spark Plasma Sintering. <i>Materials Science Forum</i> , 2007 , 561-565, 1291-1294	0.4	1
72	Improved Wear Resistance through Surface Modification of Zr ₅₀ Cu ₃₀ Ni ₁₀ Al ₁₀ Bulk Glassy Alloys. <i>Materials Transactions</i> , 2006 , 47, 1999-2005	1.3	1
71	Formation, Nanostructure and Mechanical Properties of Cu-Based Nanocrystal-Dispersed Glassy Matrix Alloys. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004 , 22, 11-20	0.2	1
70	Non-equilibrium Ti-Fe bulk alloys with ultra-high strength and enhanced ductility. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 851, 304		1
69	Nanoclusters Critical thickness magnetic properties relationship in Nd ₉₀ Fe _x Al ₁₀ amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1137-E1139	2.8	1
68	Retraction: Effect of Carbon Nanotube Addition on the Compressive Fracture Characteristics of Zr-based Bulk Metallic Glass Composites. <i>Materials Transactions</i> , 2004 , 45, 284-287	1.3	1
67	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
66	Magnetostriction and Coercivity of Soft Magnetic Fe-(Al, Ga)-(P, C, B, Si) Bulk Glassy Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 754, 1		1
65	Glass-Forming Ability and Crystallization of High Purity Pd-Cu-Ni-P Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 644, 311		1
64	Core Losses and Soft Magnetic Properties of Nanocrystalline Fe-Zr-Nb-B Alloys with Zero-Magnetostriction. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 644, 711		1
63	High-Strength Bulk Nanostructure Alloys Consisting of Compound and Amorphous Phases. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 554, 143		1
62	Quasicrystalline Ga-Pd-M (M=Cr, Mn or Fe) Alloys Prepared by Rapid Solidification. <i>Materials Transactions, JIM</i> , 1992 , 33, 953-955		1
61	Graphene and Carbon Nanotubes Fibrous Composite Decorated with PdMg Alloy Nanoparticles with Enhanced Absorption-Desorption Kinetics for Hydrogen Storage Application. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
60	Nanocrystalline alloys produced by crystallization of amorphous alloys 1993 , 177-184		1
59	Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ amorphous alloy film prepared by magnetron sputtering method. <i>Rare Metals</i> , 2021 , 40, 2237-2243	5.5	1
58	Structural homology of the strength for metallic glasses. <i>Journal of Materials Science and Technology</i> , 2021 , 81, 123-130	9.1	1

57	Bulk Metallic Glasses 2021 , 919-936	1
56	Features and Prospects of Multicomponent Metallic Glasses. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018 , 65, 37-44	0.2
55	Introduction to Amorphous Alloys and Metallic Glasses 2019 , 3-22	
54	Radial and longitudinal variations in the Young's modulus of a Zr55Al10Ni5Cu30 bulk metallic glass rod. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 459-464	5.3
53	Effects of Metallic Glass Precursors on the Catalytic Performance of Nanoporous Metals. <i>Materials Research</i> , 2015 , 18, 110-114	1.5
52	Enzyme-Free Electrochemical Glucose Sensors Prepared by Dealloying Pd-Ni-P Metallic Glasses. <i>Advances in Materials Science and Engineering</i> , 2014 , 2014, 1-6	1.5
51	Melt-Liquid Joining of Heterogeneity Metallic Glassy Alloy and Mechanical Properties. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2009 , 56, 693-696	0.2
50	Glassy Alloy Composite and Non-equilibrium Crystalline Alloy for Information Technology Applications. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1300, 1	
49	Fundamental Properties and Nano-imprintabilities of Zr-, Pd- and Cu-based Glassy Alloy Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1300, 1	
48	Mechanical and Electrical Properties of Rapidly Solidified Cu-Zr-Ag Alloy Fabricated by Powder Rolling Process. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1300, 1	
47	Porous Bulk Metallic Glass Produced by Spark Plasma Sintering of Gas Atomized Zr55Cu30Al10Ni5 Glassy Powders. <i>Ceramic Transactions</i> , 2011 , 45-50	0.1
46	Precipitation in Zr-Based Ternary Alloys during Quenching. <i>Materials Science Forum</i> , 2012 , 706-709, 1348-1352	1.5
45	Glassy solidification criterion of Zr50Cu40Al10 alloy. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012014	0.4
44	Glass formation in mechanical milled Ni-Ti-Zr-Sn pre-alloy powders. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012017	0.3
43	Apatite Forming Ability of Bulk Metallic Glass Surface via Hydrothermal Treatment. <i>Key Engineering Materials</i> , 2007 , 361-363, 249-252	0.4
42	Formation, Mechanical and Magnetic Properties of (Fe,Co)-B-Si-Nb Bulk Glassy Alloys. <i>Materials Science Forum</i> , 2007 , 539-543, 2082-2087	0.4
41	Friction and Wear of Laser Irradiated Amorphous Metals. <i>Materials Science Forum</i> , 2007 , 539-543, 3844-3849	0.4
40	Fine Crystalline Phase Dispersion in Zr-Based Bulk Metallic Glass by Laser Irradiation. <i>Advanced Materials Research</i> , 2007 , 26-28, 747-750	0.5

- 39 Analysis of Optimal Compositions of Ternary Bulk Metallic Glasses with Thermodynamic Quantities. *Materials Science Forum*, **2007**, 539-543, 1988-1993 0.4
- 38 Microstructures of Microwave Heated Soda-Lime Glass - Fe Composite and Ni-Zr-Nb-Ti-Pt Metallic Glass. *Materials Science Forum*, **2007**, 558-559, 1459-1464 0.4
- 37 Quasicrystallization of (Zr₆₅Al_{7.5}Cu_{27.5})₉₅Ti₅ Glassy Alloy. *Materials Science Forum*, **2007**, 561-565, 1320-1332
- 36 Effects of Additional Elements on Microstructures of Zr-Based Metallic Glass Ribbons. *Materials Science Forum*, **2007**, 539-543, 2000-2005 0.4
- 35 Formation and Soft-Magnetic Properties of FeMoGaPCBSi Bulk Glassy Alloys. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2007**, 71, 326-329 0.4
- 34 Synthesis of Hard Magnet Materials by Uniaxial Hot-Pressing of Fe-Co-Nd-Dy-B Glassy Powders.. *Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2003**, 50, 50-57 0.2
- 33 Investigation of the structure and properties of hypereutectic Ti-based bulk alloys. *Materials Research Society Symposia Proceedings*, **2004**, 842, 197
- 32 Short-Range Order in Pd_{42.5}Cu₃₀Ni_{7.5}P₂₀ Bulk and Ribbon Metallic Glasses. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 22, 65-70 0.2
- 31 Stability and Icosahedral Transformation of Supercooled Liquid in Metal-Metal type Bulk Glassy Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 805, 188
- 30 Synthesis and mechanical characterisation of Fe-based bulk metallic glasses and mixed amorphous/crystalline phases. *Materials Research Society Symposia Proceedings*, **2003**, 791, 1
- 29 Heating and Structural Disordering Effects of the Nonlinear Viscous Flow in a Zr₅₅Al₁₀Ni₅Cu₃₀ Bulk Metallic Glass. *Materials Research Society Symposia Proceedings*, **2003**, 806, 344
- 28 Stability and Icosahedral Transformation of Supercooled Liquid in Metal-Metal type Bulk Glassy Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 806, 161
- 27 Influence of In-Situ Nanoprecipitation on Constant Load Deformation in the Glass Transition Region of a Cu₆₀Zr₃₀Ti₁₀ Bulk Metallic Glass. *Materials Transactions*, **2004**, 45, 2383-2388 1.3
- 26 Alloying Effect on the Hydrogen Sensing Property of Melt-Spun Mg₉₀Pd₁₀ Amorphous Alloy. *Materials Transactions*, **2005**, 46, 738-741 1.3
- 25 Hydrogen Permeation Characteristics of Melt-Spun Ni-Nb-Zr Amorphous Alloy Membranes. *Materials Transactions*, **2001**, 42, 1885-1890 1.3
- 24 Computer-Aided Development of Multicomponent Metallic Glasses. *Materials Research Society Symposia Proceedings*, **2002**, 754, 1
- 23 Observations Ofstress-Induced Structuraldisorder and Fictive Stress in Bulk Metallic Glasses. *Materials Research Society Symposia Proceedings*, **2002**, 754, 1
- 22 Local Atomic Structures and Plastic Deformation Modes in the Supercooled Liquid State of La₅₅Al₂₅Ni₂₀. *Materials Research Society Symposia Proceedings*, **2000**, 644, 1111

- 21 Structure and Soft Magnetic Properties of Bulk Fe-Al-Ga-P-C-B-Si Glassy Alloys Prepared by Consolidating Glassy Powders. *Materials Research Society Symposia Proceedings*, **2000**, 644, 12131
- 20 Production of Zr-based Amorphous Wires by Rotating Disk Casting Method. *Materials Research Society Symposia Proceedings*, **2000**, 644, 12241
- 19 Formation of Nano Icosahedral Quasicrystalline Phase in Zr-based Binary and Ternary Glassy Alloys. *Materials Research Society Symposia Proceedings*, **2000**, 644, 611
- 18 Formation of nano icosahedral quasicrystalline phase in Zr-Ni-M (M=Pd, Au, Pt) ternary glassy alloys. *Ferroelectrics*, **2001**, 250, 285-288 0.6
- 17 Glass to Icosahedral Phase Transformation in Zr-based Glassy Metals. *Materials Research Society Symposia Proceedings*, **2001**, 676, 3391
- 16 Synthesis and Properties of Mg-based Amorphous Alloys **1994**, 87-92
- 15 Solidification Analyses for the Fabrication of Bulky Multicomponent Metallic Glasses and their Properties. *Materials Research Society Symposia Proceedings*, **1995**, 400, 235
- 14 Possibility of bulk glassy and nanogranular alloys as biomedical materials **2007**, 3-19
- 13 Synthesis and Viscoelasticity of Zr-based Bulk Glassy Alloy Containing ZrC Particles. *Materials Research Society Symposia Proceedings*, **2000**, 644, 1191
- 12 Charge state of rare earth ions and glass transition in the glassy Al₈₅Ni₁₀R₅ alloys **2002**, 79-82
- 11 Fabrication of Bulk Glassy Alloy Foams by High Pressure Hydrogen. *Journal of High Temperature Society*, **2008**, 34, 74-78
- 10 Large-sized Amorphous Alloys. *Materia Japan*, **1997**, 36, 989-989 0.1
- 9 High-Strength Alloys: Nanogranular Phases 1816-1825
- 8 Laser Butt Welding of Mg-Based Metallic Glass. *Ceramic Transactions*, 55-60 0.1
- 7 Low Temperature Bonding of Bulk Metallic Glass Using an Ultrasonic Process. *Ceramic Transactions*, 29-35 0.1
- 6 Formation of Bone-Like Hydroxyapatite on Surface-Modified Bulk Metallic Glass Using a Hydrothermal-Electrochemical Method. *Ceramic Transactions*, 23-28 0.1
- 5 Development of Cu Clad Cu-Zr Based Metallic Glass and Its Solderability. *Journal of High Temperature Society*, **2011**, 37, 153-158
- 4 Weldability and Mechanical Property of Ni₅₃Nb₂₀Ti₁₀Zr₈Co₆Cu₃ Metallic Glass Foil by Laser Welding. *Ceramic Transactions*, 109-115 0.1

- 3 Spark Plasma Sintering of Al₂O₃ Particulate Dispersed Zr₅₅Cu₃₀Al₁₀Ni₅ Metallic Glassy Matrix Composite. *Ceramic Transactions*,39-44 0.1
- 2 Properties of Metallic Glass Coatings on An Aluminum Alloy Substrate Produced Using A HVOF Spraying Process. *Ceramic Transactions*,69-77 0.1
- 1 Static and Dynamic Thermal Properties of a Pd₄₀Ni₄₀Si₂₀ Glassy Alloy. *Metals*, **2019**, 9, 1157 2.3