Akihisa Inoue

List of Publications by Citations

920 papers	48,372 citations	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. *Acta Materialia*, **2000**, 48, 279-306	3.4	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. *Materials Transactions*, **2005**, 46, 2817-2829	1.3	2306
918	High Strength Bulk Amorphous Alloys with Low Critical Cooling Rates (Overview). *Materials Transactions, JIM*, **1995**, 36, 866-875		950
917	Zr–Al–Ni Amorphous Alloys with High Glass Transition Temperature and Significant Supercooled Liquid Region. *Materials Transactions, JIM*, **1990**, 31, 177-183		818
916	Amorphous, nanoquasicrystalline and nanocrystalline alloys in Al-based systems. *Progress in Materials Science*, **1998**, 43, 365-520	42.2	738
915	A Stable Quasicrystal in Al-Cu-Fe System. *Japanese Journal of Applied Physics*, **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. *Materials Transactions, JIM*, **1991**, 32, 1005-1010		690
913	Al–La–Ni Amorphous Alloys with a Wide Supercooled Liquid Region. *Materials Transactions, JIM*, **1989**, 30, 965-972		655
912	Glass-forming ability of alloys. *Journal of Non-Crystalline Solids*, **1993**, 156-158, 473-480	3.9	553
911	Calculations of Mixing Enthalpy and Mismatch Entropy for Ternary Amorphous Alloys. *Materials Transactions, JIM*, **2000**, 41, 1372-1378		533
910	New Amorphous Mg-Ce-Ni Alloys with High Strength and Good Ductility. *Japanese Journal of Applied Physics*, **1988**, 27, L2248-L2251	1.4	459
909	Cobalt-based bulk glassy alloy with ultrahigh strength and soft magnetic properties. *Nature Materials*, **2003**, 2, 661-3	27	446
908	Thermal and Magnetic Properties of Bulk Fe-Based Glassy Alloys Prepared by Copper Mold Casting. *Materials Transactions, JIM*, **1995**, 36, 1427-1433		398
907	Direct observation of local atomic order in a metallic glass. *Nature Materials*, **2011**, 10, 28-33	27	391
906	Bulk amorphous alloys with high mechanical strength and good soft magnetic properties in Fe□TM□B (TM=IV□VIII group transition metal) system. *Applied Physics Letters*, **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). *Journal of Applied Physics*, **1991**, 70, 6232-6237	2.5	364
904	Preparation of Bulk Glassy Pd40Ni10Cu30P20 Alloy of 40 mm in Diameter by Water Quenching. *Materials Transactions, JIM*, **1996**, 37, 181-184		359

903	Fe-Based Ferromagnetic Glassy Alloys with Wide Supercooled Liquid Region. *Materials Transactions, JIM*, **1995**, 36, 1180-1183		352
902	Aluminum-Based Amorphous Alloys with Tensile Strength above 980 MPa (100 kg/mm2). *Japanese Journal of Applied Physics*, **1988**, 27, L479-L482	1.4	334
901	Excess free volume in metallic glasses measured by X-ray diffraction. *Acta Materialia*, **2005**, 53, 1611-1618	3.4	313
900	Production of Amorphous Cylinder and Sheet of La55Al25Ni20 Alloy by a Metallic Mold Casting Method. *Materials Transactions, JIM*, **1990**, 31, 425-428		309
899	Fabrication of Bulk Glassy Zr55Al10Ni5Cu30 Alloy of 30 mm in Diameter by a Suction Casting Method. *Materials Transactions, JIM*, **1996**, 37, 185-187		301
898	Novel hexagonal structure and ultrahigh strength of magnesium solid solution in the Mg□nY system. *Journal of Materials Research*, **2001**, 16, 1894-1900	2.5	299
897	Ultrahigh Tensile Strengths of Al88Y2Ni9M1 (M=Mn or Fe) Amorphous Alloys Containing Finely Dispersed fcc-Al Particles. *Materials Transactions, JIM*, **1990**, 31, 747-749		287
896	Preparation and Thermal Stability of Bulk Amorphous Pd40Cu30Ni10P20 Alloy Cylinder of 72 mm in Diameter. *Materials Transactions, JIM*, **1997**, 38, 179-183		286
895	Bulk amorphous and nanocrystalline alloys with high functional properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 304-306, 1-10	5.3	270
894	Effect of strain rate on compressive behavior of a Pd40Ni40P20 bulk metallic glass. *Intermetallics*, **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. *Materials Transactions, JIM*, **1998**, 39, 1001-1006		258
892	Recent Progress in Bulk Glassy Alloys. *Materials Transactions*, **2002**, 43, 1892-1906	1.3	254
891	Nanoporous Metals by Dealloying Multicomponent Metallic Glasses. *Chemistry of Materials*, **2008**, 20, 4548-4550	9.6	248
890	Extraordinary plasticity of ductile bulk metallic glasses. *Physical Review Letters*, **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. *Japanese Journal of Applied Physics*, **1988**, 27, L280-L282	1.4	247
888	Bulk Nd–Fe–Al Amorphous Alloys with Hard Magnetic Properties. *Materials Transactions, JIM*, **1996**, 37, 99-108		244
887	Nanoporous PdNi Bimetallic Catalyst with Enhanced Electrocatalytic Performances for Electro-oxidation and Oxygen Reduction Reactions. *Advanced Functional Materials*, **2011**, 21, 4364-4370	15.6	227
886	Formation, Thermal Stability and Mechanical Properties of Cu-Zr-Al Bulk Glassy Alloys. *Materials Transactions*, **2002**, 43, 2921-2925	1.3	217

885	Rapid Degradation of Azo Dye by Fe-Based Metallic Glass Powder. *Advanced Functional Materials*, **2012**, 22, 2567-2570	15.6	214
884	Recent progress in bulk glassy, nanoquasicrystalline and nanocrystalline alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 16-30	5.3	214
883	High Mechanical Strengths of Mg–Ni–Y and Mg–Cu–Y Amorphous Alloys with Significant Supercooled Liquid Region. *Materials Transactions, JIM*, **1990**, 31, 929-934		212
882	Ferromagnetic bulk amorphous alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1998**, 29, 1779-1793	2.3	208
881	Formation, Thermal Stability and Mechanical Properties of Cu-Zr and Cu-Hf Binary Glassy Alloy Rods. *Materials Transactions*, **2004**, 45, 584-587	1.3	196
880	Superhigh strength and good soft-magnetic properties of (Fe,Co)BSiNb bulk glassy alloys with high glass-forming ability. *Applied Physics Letters*, **2004**, 85, 4911-4913	3.4	186
879	Glass-Forming Ability of Bulk Pd40Ni10Cu30P20 Alloy. *Materials Transactions, JIM*, **1996**, 37, 1531-1539		183
878	New Stable Icosahedral Al-Cu-Ru and Al-Cu-Os Alloys. *Japanese Journal of Applied Physics*, **1988**, 27, L1587-L1590	1.4	182
877	New Bulk Metallic Glasses for Applications as Magnetic-Sensing, Chemical, and Structural Materials. *MRS Bulletin*, **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. *Materials Transactions, JIM*, **1995**, 36, 1420-1426		179
875	Increase in Mechanical Strength of Al–Y–Ni Amorphous Alloys by Dispersion of Nanoscale fcc-Al Particles. *Materials Transactions, JIM*, **1991**, 32, 331-338		178
874	Stable Decagonal Al–Co–Ni and Al–Co–Cu Quasicrystals. *Materials Transactions, JIM*, **1989**, 30, 463-473		177
873	New Fe–Co–Ni–Zr–B Amorphous Alloys with Wide Supercooled Liquid Regions and Good Soft Magnetic Properties. *Materials Transactions, JIM*, **1997**, 38, 359-362		176
872	Ti-based amorphous alloys with a wide supercooled liquid region. *Materials Letters*, **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. *Materials Transactions, JIM*, **1995**, 36, 391-398		176
870	Dynamic response of a Pd40Ni40P20 bulk metallic glass in tension. *Scripta Materialia*, **2002**, 46, 43-47	5.6	173
869	Low core losses of nanocrystalline FeMB (M=Zr, Hf, or Nb) alloys. *Journal of Applied Physics*, **1993**, 74, 3316-3322	2.5	173
868	Ductility of bulk nanocrystalline composites and metallic glasses at room temperature. *Applied Physics Letters*, **2000**, 77, 46-48	3.4	172

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

849	Fabrications and mechanical properties of bulk amorphous, nanocrystalline, nanoquasicrystalline alloys in aluminum-based system. *Journal of Light Metals*, **2001**, 1, 31-41		126
848	New bulk amorphous Fe(Co,Ni)MB (M=Zr,Hf,Nb,Ta,Mo,W) alloys with good soft magnetic properties. *Journal of Applied Physics*, **1998**, 83, 6326-6328	2.5	126
847	Investigation of TiFeCo bulk alloys with high strength and enhanced ductility. *Acta Materialia*, **2005**, 53, 2009-2017	8.4	125
846	Hydrogen permeation and structural features of melt-spun NiNbZr amorphous alloys. *Acta Materialia*, **2005**, 53, 3703-3711	8.4	124
845	Bulk Amorphous Ni75−xNb5MxP20−yBy (M=Cr, Mo) Alloys with Large Supercooling and High Strength. *Materials Transactions, JIM*, **1999**, 40, 1130-1136		121
844	Cu-based bulk glassy alloys with high tensile strength of over 2000 MPa. *Journal of Non-Crystalline Solids*, **2002**, 304, 200-209	3.9	119
843	Flux Treated Pd–Cu–Ni–P Amorphous Alloy Having Low Critical Cooling Rate. *Materials Transactions, JIM*, **1997**, 38, 464-472		118
842	The worldN biggest glassy alloy ever made. *Intermetallics*, **2012**, 30, 19-24	3.5	117
841	Thermal Stability and Mechanical Strength of Bulk Glassy Ni-Nb-Ti-Zr Alloys. *Materials Transactions*, **2002**, 43, 1952-1956	1.3	116
840	Newtonian to non-Newtonian master flow curves of a bulk glass alloy Pd40Ni10Cu30P20. *Applied Physics Letters*, **1998**, 73, 3665-3667	3.4	116
839	Thermal Stability and Mechanical Properties of Mg–Y–Cu–M (M = Ag, Pd) Bulk Amorphous Alloys. *Materials Transactions, JIM*, **2000**, 41, 1460-1462		115
838	Thermal and Mechanical Properties of Cu-Based Cu-Zr-Ti Bulk Glassy Alloys. *Materials Transactions*, **2001**, 42, 1149-1151	1.3	114
837	Superplasticity in Pd40Ni40P20 metallic glass. *Scripta Materialia*, **1998**, 39, 301-306	5.6	113
836	Preparation of Ti–Cu–Ni–Si–B Amorphous Alloys with a Large Supercooled Liquid Region. *Materials Transactions, JIM*, **1999**, 40, 301-306		113
835	Nano-fabrication with metallic glass-an exotic material for nano-electromechanical systems. *Nanotechnology*, **2007**, 18, 035302	3.4	112
834	New CuZr-based bulk metallic glasses with large diameters of up to 1.5cm. *Scripta Materialia*, **2006**, 55, 711-713	5.6	111
833	Ti-based amorphous alloys with a large supercooled liquid region. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 304-306, 771-774	5.3	109
832	Direct observation of icosahedral cluster in Zr70Pd30 binary glassy alloy. *Applied Physics Letters*, **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. *Materials Transactions, JIM*, **1997**, 38, 1040-1046		106
830	Preparation and Mechanical Properties of Zr-based Bulk Nanocrystalline Alloys Containing Compound and Amorphous Phases. *Materials Transactions, JIM*, **1999**, 40, 42-51		106
829	Fabrication of Bulky Zr-Based Glassy Alloys by Suction Casting into Copper Mold. *Materials Transactions, JIM*, **1995**, 36, 1184-1187		106
828	Stabilization and high strain-rate superplasticity of metallic supercooled liquid. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1999**, 267, 171-183	5.3	105
827	Fabrication of porous ZrCuAlNi bulk metallic glass by spark plasma sintering process. *Scripta Materialia*, **2006**, 55, 687-690	5.6	102
826	Developments and Applications of Bulk Glassy Alloys in Late Transition Metal Base System. *Materials Transactions*, **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. *Materials Transactions, JIM*, **2000**, 41, 1256-1262		101
824	New Amorphous Alloys with Good Ductility in Al-Ce-M (M=Nb, Fe, Co, Ni or Cu) Systems. *Japanese Journal of Applied Physics*, **1988**, 27, L1796-L1799	1.4	100
823	Excellent capability in degrading azo dyes by MgZn-based metallic glass powders. *Scientific Reports*, **2012**, 2, 418	4.9	99
822	High Strength and Good Ductility of Bulk Quasicrystalline Base Alloys in Zr65Al7.5Ni10Cu17.5−xPdx System. *Materials Transactions, JIM*, **1999**, 40, 1137-1143		99
821	Crystallization Behavior of Amorphous Fe90−XNb10BX (X=10 and 30) Alloys. *Materials Transactions, JIM*, **2000**, 41, 1526-1529		98
820	A new criterion for predicting the glass-forming ability of bulk metallic glasses. *Journal of Alloys and Compounds*, **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. *Journal of Materials Processing Technology*, **2001**, 113, 64-69	5.3	94
818	Glass Transition Behavior and Viscous Flow Working of Pd40Cu30Ni10P20 Amorphous Alloy. *Materials Transactions, JIM*, **1999**, 40, 64-71		94
817	Nanoporous CuS with excellent photocatalytic property. *Scientific Reports*, **2015**, 5, 18125	4.9	93
816	Ferrous and Nonferrous Bulk Amorphous Alloys. *Materials Science Forum*, **1998**, 269-272, 855-864	0.4	93
815	FeSiBP bulk metallic glasses with high magnetization and excellent magnetic softness. *Journal of Magnetism and Magnetic Materials*, **2008**, 320, 2499-2503	2.8	91
814	Hydrogen Permeation Characteristics of Melt-Spun Ni-Nb-Zr Amorphous Alloy Membranes. *Materials Transactions*, **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. *Materials Transactions, JIM*, **1996**, 37, 636-640		91
812	Long-Period Hexagonal Structures in Melt-Spun Mg97Ln2Zn1 (Ln=Lanthanide Metal) Alloys. *Materials Transactions*, **2003**, 44, 2151-2156	1.3	90
811	Newtonian viscosity of supercooled liquid in a Pd40Ni40P20 metallic glass. *Applied Physics Letters*, **2000**, 77, 1114-1116	3.4	90
810	Mechanical Properties, Fracture Mode and Deformation Behavior of Al70Pd20Mn10 Single-Quasicrystal. *Materials Transactions, JIM*, **1993**, 34, 135-145		90
809	Formation and bioactivation of Zr-Al-Co bulk metallic glasses. *Journal of Materials Research*, **2009**, 24, 2941-2948	2.5	89
808	Nanocrystalline composites with high strength obtained in ZrTiNiCuAl bulk amorphous alloys. *Applied Physics Letters*, **1999**, 75, 340-342	3.4	89
807	Fabrication and novel properties of nanostructured Al base alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1994**, 179-180, 57-61	5.3	89
806	The effect of Ni substitution on the glass-forming ability and mechanical properties of MgCuGd metallic glass alloys. *Journal of Alloys and Compounds*, **2005**, 387, 134-138	5.7	88
805	Nearly full density Ni52.5Nb10Zr15Ti15Pt7.5 bulk metallic glass obtained by spark plasma sintering of gas atomized powders. *Applied Physics Letters*, **2007**, 90, 241902	3.4	87
804	Excellent soft-ferromagnetic bulk glassy alloys with high saturation magnetization. *Applied Physics Letters*, **2006**, 88, 131907	3.4	87
803	Multicomponent Fe-Based Glassy Alloys with Wide Supercooled Liquid Region before Crystallization. *Materials Transactions, JIM*, **1995**, 36, 1282-1285		87
802	Mechanical properties and structural features of novel Fe-based bulk metallic glasses with unprecedented plasticity. *Scientific Reports*, **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. *Journal of Materials Research*, **2007**, 22, 1346-1353	2.5	84
800	Newtonian and non-Newtonian viscosity of supercooled liquid in metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 304-306, 674-678	5.3	84
799	Synthesis of stable quasicrystalline particle-dispersed Al base composite alloys. *Journal of Materials Research*, **1993**, 8, 5-7	2.5	84
798	CuHfTiAgTa bulk metallic glass composites and their properties. *Acta Materialia*, **2005**, 53, 2037-2048	8.4	83
797	Formation, thermal stability and electrical resistivity of quasicrystalline phase in rapidly quenched Al-Cr alloys. *Journal of Materials Science*, **1987**, 22, 1758-1768	4.3	83
796	Cast structure and mechanical properties of ZrCuNiAl bulk glassy alloys. *Intermetallics*, **2002**, 10, 1113-1124	3.5	82

795	Ferromagnetic bulk glassy alloys. *Journal of Magnetism and Magnetic Materials*, **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. *Scripta Materialia*, **2001**, 44, 1599-1604	5.6	81
793	High-Strain-Rate Superplasticity due to Newtonian Viscous Flow in La55Al25Ni20 Metallic Glass. *Materials Transactions, JIM*, **1999**, 40, 794-803		81
792	Formation and mechanical properties of Ni-based NiNbTiHf bulk glassy alloys. *Scripta Materialia*, **2003**, 48, 641-645	5.6	80
791	Application of Zr-Based Bulk Glassy Alloys to Golf Clubs. *Materials Transactions*, **2001**, 42, 678-681	1.3	80
790	Effect of Additional Elements (M) on the Thermal Stability of Supercooled Liquid in Fe72−xAl5Ga2P11C6B4Mx Glassy Alloys. *Materials Transactions, JIM*, **1996**, 37, 32-38		80
789	A Stable Decagonal Quasicrystal in the Al–Cu–Co System. *Materials Transactions, JIM*, **1989**, 30, 300-304		80
788	High-strength binary Ti-Fe bulk alloys with enhanced ductility. *Journal of Materials Research*, **2004**, 19, 3600-3606	2.5	79
787	Formation, Thermal Stability and Mechanical Properties of Ca-Based Bulk Glassy Alloys. *Materials Transactions*, **2002**, 43, 81-84	1.3	78
786	Formation of metal-metal type aluminum-based amorphous alloys. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1988**, 19, 1369-1371		78
785	A nanoporous metal phosphide catalyst for bifunctional water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 5574-5579	13	76
784	Origin of Low Coercivity of Fe-(Al, Ga)-(P, C, B, Si, Ge) Bulk Glassy Alloys. *Materials Transactions*, **2003**, 44, 2020-2024	1.3	76
783	New Ti-Based Bulk Glassy Alloys with High Glass-Forming Ability and Superior Mechanical Properties. *Materials Transactions*, **2004**, 45, 3223-3227	1.3	76
782	Corrosion Behavior of Zr–(Nb–)Al–Ni–Cu Glassy Alloys. *Materials Transactions, JIM*, **2000**, 41, 1490-1494		76
781	Study of the structural relaxation-induced embrittlement of hypoeutectic ZrCuAl ternary bulk glassy alloys. *Acta Materialia*, **2008**, 56, 6097-6108	8.4	75
780	Preparation of Cu36Zr48Ag8Al8 Bulk Metallic Glass with a Diameter of 25 mm by Copper Mold Casting. *Materials Transactions*, **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. *Materials Transactions*, **2004**, 45, 1214-1218	1.3	75
778	Glass Transition Behavior of Al-Y-Ni and Al-Ce-Ni Amorphous Alloys. *Japanese Journal of Applied Physics*, **1988**, 27, L1579-L1582	1.4	75

777	Novel Hexagonal Structure of Ultra-High Strength Magnesium-Based Alloys. *Materials Transactions*, **2002**, 43, 580-584	1.3	74
776	Bulk nanocomposite permanent magnets produced by crystallization of (Fe,Co)(Nd,Dy)B bulk glassy alloy. *Applied Physics Letters*, **2002**, 80, 1610-1612	3.4	73
775	Ferromagnetic CoFeZrB amorphous alloys with glass transition and good high-frequency permeability. *Applied Physics Letters*, **1998**, 73, 744-746	3.4	73
774	Thermal stabilities and discharge capacities of melt-spun MgNi-based amorphous alloys. *Journal of Alloys and Compounds*, **2002**, 339, 230-235	5.7	72
773	Soft magnetic FeSiBPC bulk metallic glasses without any glass-forming metal elements. *Journal of Alloys and Compounds*, **2009**, 483, 616-619	5.7	71
772	Extremely low critical cooling rates of new Pd-Cu-P base amorphous alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 401-405	5.3	70
771	Effects of Ti on the Thermal Stability and Glass-Forming Ability of Ni-Nb Glassy Alloy. *Materials Transactions*, **2002**, 43, 2342-2345	1.3	70
770	Low Core Loss of a bcc Fe86Zr7B6Cu1 Alloy with Nanoscale Grain Size. *Materials Transactions, JIM*, **1991**, 32, 551-556		70
769	Chemical order in an Al-Pd-Mn icosahedral quasicrystal. *Philosophical Magazine Letters*, **1990**, 62, 95-100	1	70
768	Ductile Al-Ni-Zr amorphous alloys with high mechanical strength. *Journal of Materials Science Letters*, **1988**, 7, 805-807		70
767	Formation of Bulk Glassy Fe75CrxMoyC15B10 Alloys and Their Corrosion Behavior. *Journal of Materials Research*, **2002**, 17, 701-704	2.5	69
766	Preparation of Bulk Pr–Fe–Al Amorphous Alloys and Characterization of Their Hard Magnetic Properties. *Materials Transactions, JIM*, **1996**, 37, 1731-1740		69
765	Multicomponent Co-based Amorphous Alloys with Wide Supercooled Liquid Region. *Materials Transactions, JIM*, **1996**, 37, 1332-1336		69
764	Synthesis and properties of CuZrAgAl glassy alloys with high glass-forming ability. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2008**, 148, 92-96	3.1	68
763	Formation of an Icosahedral Quasicrystalline Phase in Zr65Al7.5Ni10M17.5 (M = Pd, Au or Pt) Alloys. *Materials Transactions, JIM*, **2000**, 41, 362-365		68
762	CoFeBSiNb bulk glassy alloys with superhigh strength and extremely low magnetostriction. *Applied Physics Letters*, **2006**, 88, 011901	3.4	67
761	Free volume kinetics during sub-Tg structural relaxation of a bulk Pd40Ni40P20 metallic glass. *Applied Physics Letters*, **2006**, 88, 131906	3.4	67
760	Formation and mechanical properties of CuHfTi bulk glassy alloys [Article Retracted]. *Journal of Materials Research*, **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. *Materials Science and Engineering C*, **2009**, 29, 322-327	3.3	65
758	High-strength Cu-based crystal-glassy composite with enhanced ductility. *Applied Physics Letters*, **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. *Materials Transactions, JIM*, **1999**, 40, 491-497		65
756	Fabrication, Thermal Stability and Mechanical Properties of Porous Bulk Glassy Pd-Cu-Ni-P Alloys. *Materials Transactions*, **2003**, 44, 2228-2231	1.3	64
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