Juergen H Eckert

List of Publications by Year in Descending Order

1,246 papers	42,926 citations	94 h-index	153 g-index
1,283 ext. papers	47,283 ext. citations	4.6 avg, IF	7.68 L-index

#	Paper	IF	Citations
1246	Structure-dynamics relationships in cryogenically deformed bulk metallic glass.. *Nature Communications*, **2022**, 13, 127	17.4	3
1245	Multilayer crystal-amorphous Pd-based nanosheets on Si/SiO2 with interface-controlled ion transport for efficient hydrogen storage. *International Journal of Hydrogen Energy*, **2022**, 47, 6777-6788	6.7	0
1244	Thermodynamic and kinetic interpretation of the glass-forming ability of Y-containing Cu-Zr-Al bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2022**, 576, 121266	3.9	0
1243	Thermoplasticity of metallic glasses: Processing and applications. *Progress in Materials Science*, **2022**, 127, 100941	42.2	0
1242	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. *Corrosion Science*, **2021**, 193, 109880	6.8	0
1241	Effect of cold rolling on the pressure coefficient of glass transition temperature in bulk metallic glasses. *Thermochimica Acta*, **2021**, 706, 179071	2.9	1
1240	Synthesis, thermodynamic analysis and magnetic study of novel ball- milled Co50Fe25Ta5Si5C15 glassy powders with high thermal stability. *Journal of Alloys and Compounds*, **2021**, 894, 162509	5.7	0
1239	Medium-range order dictates local hardness in bulk metallic glasses. *Materials Today*, **2021**, 44, 48-57	21.8	17
1238	First-Principles Study of the Intrinsic Properties of the fcc/hcp-Ti Boundary in Carbon Nanotube/Ti Composites Prepared by High-Pressure Torsion. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2100093	1.3	
1237	Origin of Electrocatalytic Activity in Amorphous Nickel-Metalloid Electrodeposits. *ACS Applied Materials & Interfaces*, **2021**, 13, 23689-23701	9.5	1
1236	Molecular Dynamics Study of the Nanoindentation Behavior of CuZr/Cu Amorphous/Crystalline Nanolaminate Composites. *Materials*, **2021**, 14,	3.5	2
1235	Additive Manufacturing of Aluminum-Based Metal Matrix Composites□A Review. *Advanced Engineering Materials*, **2021**, 23, 2100053	3.5	5
1234	Mechanochemical Synthesis of Rosin-Modified Montmorillonite: A Breakthrough Approach to the Next Generation of OMMT/Rubber Nanocomposites. *Nanomaterials*, **2021**, 11,	5.4	2
1233	Cryo-Casting for Controlled Decomposition of Cu□Zr□Al Bulk Metallic Glass into Nanomaterials: Implications for Design Optimization. *ACS Applied Nano Materials*, **2021**, 4, 7771-7780	5.6	1
1232	Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements. *Journal of Alloys and Compounds*, **2021**, 870, 159436	5.7	9
1231	Structural homology of the strength for metallic glasses. *Journal of Materials Science and Technology*, **2021**, 81, 123-130	9.1	1
1230	Composite of medium entropy alloys synthesized using spark plasma sintering. *Scripta Materialia*, **2021**, 191, 46-51	5.6	6

1229	Deformation-Mode-Sensitive Behavior of CuZr-Based Bulk Metallic Glasses Under Dynamic Loading. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 8-13	2.3	0
1228	Microstructure refinement and enhanced tensile properties of Al-11Mg2Si alloy modified by erbium. *Journal of Alloys and Compounds*, **2021**, 860, 158421	5.7	5
1227	Thermomechanical and structural characterization of polybutadiene/poly(ethylene oxide)/ CNT stretchable electrospun fibrous membranes. *Polymers for Advanced Technologies*, **2021**, 32, 248-261	3.2	2
1226	X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. *ACS Nano*, **2021**, 15, 2386-2398	16.7	2
1225	Electrospun polyacrylonitrile/2-(acryloyloxy)ethyl ferrocenecarboxylate polymer blend nanofibers. *Molecular Systems Design and Engineering*, **2021**, 6, 476-492	4.6	0
1224	Functionalized highly electron-rich redox-active electropolymerized 3,4-propylenedioxythiophenes as precursors and targets for bioelectronics and supercapacitors. *Molecular Systems Design and Engineering*, **2021**, 6, 214-233	4.6	3
1223	In situ TEM observation of phase transformation in bulk metallic glass composites. *Materials Research Letters*, **2021**, 9, 189-194	7.4	4
1222	Nanoporous PdCuSi Amorphous Thin Films for Electrochemical Hydrogen Storage and Sensing. *ACS Applied Energy Materials*, **2021**, 4, 2672-2680	6.1	2
1221	Effective Methanol Oxidation with Platinum Nanoparticles-Decorated Poly(2-bromomethyl-2-methyl-3,4-propylenedioxythiophene)-Coated Glassy Carbon Electrode. *Journal of the Electrochemical Society*, **2021**, 168, 086503	3.9	0
1220	Effects of Ni and Co alloying on thermal, magnetic and structural properties of Fe-(Ni,Co)-P-C metallic glass ribbons. *Journal of Alloys and Compounds*, **2021**, 872, 159620	5.7	4
1219	Morphology of cracks and shear bands in polymer-supported thin film metallic glasses. *Materials Today Communications*, **2021**, 28, 102547	2.5	
1218	Enhancement of Interfacial Hydrogen Interactions with Nanoporous Gold-Containing Metallic Glass. *ACS Applied Materials & Interfaces*, **2021**, 13, 42613-42623	9.5	2
1217	Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si content alloys. *Vacuum*, **2021**, 191, 110405	3.7	2
1216	Direct observation of nanocrystal-induced enhancement of tensile ductility in a metallic glass composite. *Materials and Design*, **2021**, 209, 109970	8.1	1
1215	High-entropy eutectic composites with high strength and low Young's modulus. *Material Design and Processing Communications*, **2020**, 3, e211	0.9	
1214	Effect of tempering and deep cryogenic treatment on microstructure and mechanical properties of CrMoVNi steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 787, 139520	5.3	15
1213	In situ high-energy X-ray diffraction study of thermally-activated martensitic transformation far below room temperature in CuZr-based bulk metallic glass composites. *Journal of Alloys and Compounds*, **2020**, 841, 155781	5.7	9
1212	New Mg-Ca-Zn amorphous alloys: Biocompatibility, wettability and mechanical properties. *Materialia*, **2020**, 12, 100799	3.2	15

1211	High pressure torsion induced lowering of Young's modulus in high strength TNZT alloy for bio-implant applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 108, 103839	4.1	11
1210	Phase transformation, thermal behavior and magnetic study of new Co80-xTaxSi5C15 (x´= 0, 5) glassy/nanocrystalline alloys prepared by mechanical alloying. *Journal of Alloys and Compounds*, **2020**, 843, 155913	5.7	6
1209	Strain perceptibility of elements on the diffusion in Zr-based amorphous alloys. *Scientific Reports*, **2020**, 10, 4575	4.9	1
1208	Anisotropic elastic and thermodynamic properties of the HCP-Titanium and the FCC-Titanium structure under different pressures. *Journal of Materials Research and Technology*, **2020**, 9, 3488-3501	5.5	2
1207	Soft Ferromagnetic Bulk Metallic Glass with Potential Self-Healing Ability. *Materials*, **2020**, 13,	3.5	1
1206	Oligoether Ester-Functionalized ProDOT Copolymers on Si/Monolayer Graphene as Capacitive Thin Film Electrodes. *Journal of the Electrochemical Society*, **2020**, 167, 070543	3.9	6
1205	Thermal expansion behavior of Al□Si alloys fabricated using selective laser melting. *Progress in Additive Manufacturing*, **2020**, 5, 247-257	5	5
1204	Hydrogen storage performance of the multi-principal-component CoFeMnTiVZr alloy in electrochemical and gas-solid reactions.. *RSC Advances*, **2020**, 10, 24613-24623	3.7	14
1203	Selective laser melting of nanostructured Al-Y-Ni-Co alloy. *Manufacturing Letters*, **2020**, 25, 21-25	4.5	4
1202	Structural and Phase Evolution upon Annealing of Fe76Si9□B10P5Mox (x = 0, 1, 2 and 3) Alloys. *Metals*, **2020**, 10, 881	2.3	2
1201	Outstanding strengthening behavior and dynamic mechanical properties of in-situ Al□Al3Ni composites by Cu addition. *Composites Part B: Engineering*, **2020**, 189, 107891	10	21
1200	Transformation-enhanced strength and ductility in a FeCoCrNiMn dual phase high-entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2020**, 780, 139182	5.3	16
1199	Chemical bonding effects on the brittle-to-ductile transition in metallic glasses. *Acta Materialia*, **2020**, 188, 273-281	8.4	17
1198	Non-isothermal crystallization kinetics of a Fe□rMoB□ amorphous powder. *Journal of Alloys and Compounds*, **2020**, 823, 153783	5.7	9
1197	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of CuZrAl Metallic Glass Using Joule Heating. *Nanomaterials*, **2020**, 10,	5.4	5
1196	Stability, elasticity and electronic structures of Co-Zr binary intermetallic compounds. *Philosophical Magazine*, **2020**, 100, 874-893	1.6	1
1195	Development and characterization of new Co□e□lf□ bulk metallic glass with high thermal stability and superior soft magnetic performance. *Journal of Alloys and Compounds*, **2020**, 823, 153890	5.7	6
1194	Achieving work hardening by forming boundaries on the nanoscale in a Ti-based metallic glass matrix composite. *Journal of Materials Science and Technology*, **2020**, 50, 192-203	9.1	7

1193	Metallic Glass Films with Nanostructured Periodic Density Fluctuations Supported on Si/SiO as an Efficient Hydrogen Sorber. *Chemistry - A European Journal*, **2020**, 26, 8244-8253	4.8	8
1192	Aluminum matrix composites reinforced with metallic glass particles with core-shell structure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2020**, 771, 138630	5.3	15
1191	Evolution of Bimodal Microstructure and High-Temperature Wear Resistance of Al-Cu-Ni Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 109-115	2.3	6
1190	Atomic-scale origin of shear band multiplication in heterogeneous metallic glasses. *Scripta Materialia*, **2020**, 178, 57-61	5.6	46
1189	Microstructures, Mechanical Properties, and Corrosion Behaviors of Refractory High-Entropy ReTaWNbMo Alloys. *Journal of Materials Engineering and Performance*, **2020**, 29, 399-409	1.6	6
1188	Electrocatalytic Behavior of Hydrogenated Pd-Metallic Glass Nanofilms: Butler-Volmer, Tafel, and Impedance Analyses. *Electrocatalysis*, **2020**, 11, 94-109	2.7	17
1187	Synthesis and characterization of novel mesoporous strontium-modified bioactive glass nanospheres for bone tissue engineering applications. *Microporous and Mesoporous Materials*, **2020**, 294, 109889	5.3	14
1186	New para-magnetic (CoFeNi)50(CrMo)50-x(CB)x (x = 20, 25, 30) non-equiatomic high entropy metallic glasses with wide supercooled liquid region and excellent mechanical properties. *Journal of Materials Science and Technology*, **2020**, 43, 135-143	9.1	13
1185	Metal flow behavior of P/M connecting rod preform in flashless forging based on isothermal compression and numerical simulation. *Journal of Materials Research and Technology*, **2020**, 9, 1200-1209	5.5	6
1184	Novel □+□Type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. *Metals*, **2020**, 10, 34	2.3	1
1183	Effect of mechanically induced structural rejuvenation on the deformation behaviour of CuZr based bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 773, 138848	5.3	8
1182	Selective Laser Melting of Aluminum and Its Alloys. *Materials*, **2020**, 13,	3.5	24
1181	Surface-governed electrochemical hydrogenation in FeNi-based metallic glass. *Journal of Power Sources*, **2020**, 475, 228700	8.9	4
1180	Fabrication and characterization of novel soft magnetic [(Fe0.7Co0.3)71.2B24Y4.8]96Nb4/V2O5 bulk metallic glassy/composite cores with excellent magnetic permeability and low core losses. *Journal of Alloys and Compounds*, **2020**, 846, 156427	5.7	3
1179	Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. *Metals*, **2020**, 10, 867	2.3	5
1178	Effective electrocatalytic methanol oxidation of Pd-based metallic glass nanofilms. *Nanoscale*, **2020** , 12, 22586-22595	7.7	10
1177	Selective laser melting of high-strength, low-modulus Ti□5Nb□7Zr□Ta alloy. *Materialia*, **2020**, 14, 100941	3.2	19
1176	Cluster-Related Phenomena in the Properties and Transformations of Transition Metal-Based Glassy Alloys. *Metals*, **2020**, 10, 1025	2.3	1

1175	Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. *Nanomaterials*, **2020**, 10,	5.4	9
1174	Signature of local stress states in the deformation behavior of metallic glasses. *NPG Asia Materials*, **2020**, 12,	10.3	13
1173	A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting. *Transactions of Nonferrous Metals Society of China*, **2020**, 30, 2001-2034	3.3	48
1172	Microstructural characterization of medium entropy alloy thin films. *Scripta Materialia*, **2020**, 177, 22-26	5.6	14
1171	Microstructure and mechanical properties of Al-12Si and Al-3.5Cu-1.5Mg-1Si bimetal fabricated by selective laser melting. *Journal of Materials Science and Technology*, **2020**, 36, 18-26	9.1	27
1170	Evaluation of hydrogen storage performance of ZrTiVNiCrFe in electrochemical and gas-solid reactions. *International Journal of Hydrogen Energy*, **2020**, 45, 5347-5355	6.7	22
1169	Study of thermal and structural characteristics of mechanically milled nanostructured Al-Cu-Fe quasicrystals. *Materials Chemistry and Physics*, **2020**, 251, 123071	4.4	2
1168	Premature failure of an additively manufactured material. *NPG Asia Materials*, **2020**, 12,	10.3	44
1167	Selective laser melting of 316L stainless steel: Influence of TiB2 addition on microstructure and mechanical properties. *Materials Today Communications*, **2019**, 21, 100615	2.5	19
1166	Optimizing mechanical properties of FeCoNiSiB high entropy alloy by inducing hypoeutectic to quasi-duplex microstructural transition. *Scientific Reports*, **2019**, 9, 360	4.9	9
1165	Effect of heat treatment on microstructure and mechanical properties of 316L steel synthesized by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 748, 205-212	5.3	97
1164	The preparation of surfactant-free highly dispersed ethylene glycol-based aluminum nitride-carbon nanofluids for heat transfer application. *Advanced Powder Technology*, **2019**, 30, 2032-2041	4.6	12
1163	Exceptional fracture resistance of ultrathin metallic glass films due to an intrinsic size effect. *Scientific Reports*, **2019**, 9, 8281	4.9	7
1162	An investigation on diffusivity while achieving a cylindrical aluminide coating on metals using simultaneous spark plasma sintering of powders. *Scripta Materialia*, **2019**, 170, 156-160	5.6	4
1161	Influence of annealing on microstructure and mechanical properties of ultrafine-grained Ti45Nb. *Materials and Design*, **2019**, 179, 107864	8.1	11
1160	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in CoCrFeNiNb high-entropy composites. *Journal of Materials Research*, **2019**, 34, 2672-2682	2.5	4
1159	Mechanochemical synthesis and hydrogenation behavior of (TiFe)100-xNix alloys. *Journal of Alloys and Compounds*, **2019**, 796, 42-46	5.7	9
1158	Structure?Property Relationships in Shape Memory Metallic Glass Composites. *Materials*, **2019**, 12,	3.5	13

1157	Tuning the glass forming ability and mechanical properties of Ti-based bulk metallic glasses by Ga additions. *Journal of Alloys and Compounds*, **2019**, 793, 552-563	5.7	10
1156	Ultrahigh hydrogen-sorbing palladium metallic-glass nanostructures. *Materials Horizons*, **2019**, 6, 1481-1487	14.4	11
1155	Controlling the distribution of structural heterogeneities in severely deformed metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2019**, 752, 36-42	5.3	21
1154	High-resolution transmission electron microscopy investigation of diffusion in metallic glass multilayer films. *Materials Today Advances*, **2019**, 1, 100004	7.4	9
1153	Stability of the B2 CuZr phase in Cu-Zr-Al-Sc bulk metallic glass matrix composites. *Journal of Alloys and Compounds*, **2019**, 790, 657-665	5.7	7
1152	Fast and direct determination of fragility in metallic glasses using chip calorimetry. *Heliyon*, **2019**, 5, e01334	3.4	5
1151	Deformation behavior of designed dual-phase CuZr metallic glasses. *Materials and Design*, **2019**, 168, 107662	8.1	14
1150	Structure Modulation and Nanocrystallization of Metallic Glasses: How to Tune Mechanical Properties. *Structural Integrity*, **2019**, 352-353	0.2	
1149	Nanodiffraction Strain Mapping of Metallic Glasses During In Situ Deformation. *Structural Integrity*, **2019**, 356-357	0.2	
1148	Synthesis of new glassy Mg-Ca-Zn alloys with exceptionally low Young's Modulus: Exploring near eutectic compositions. *Scripta Materialia*, **2019**, 173, 139-143	5.6	5
1147	Influence of directional microstructure on mechanical properties in Al-based ultrafine bimodal lamellar structured alloy. *Material Design and Processing Communications*, **2019**, 1, e52	0.9	2
1146	Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting. *Journal of Manufacturing Processes*, **2019**, 45, 255-261	5	46
1145	Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites. *Journal of Alloys and Compounds*, **2019**, 806, 939-945	5.7	2
1144	Microstructure and Mechanical Properties of Al-(12-20)Si Bi-Material Fabricated by Selective Laser Melting. *Materials*, **2019**, 12,	3.5	19
1143	Optimizing the magnetic properties of Fe-based amorphous powder by adjusting atomic structures from vitrification at different temperatures. *Journal of Applied Physics*, **2019**, 126, 165109	2.5	1
1142	Polymorphic Transformation and Magnetic Properties of Rapidly Solidified FeCoNiSiB High-Entropy Alloys. *Materials*, **2019**, 12,	3.5	6
1141	Mechanochemical reaction of Al and melamine: a potential approach towards the in situ synthesis of aluminum nitride-carbon nanotube nanocomposites. *Physical Chemistry Chemical Physics*, **2019**, 21, 22121-22131	3.6	1
1140	Synthesis, characterization and thermodynamic stability of nanostructured □-iron carbonitride powder prepared by a solid-state mechanochemical route. *Journal of Alloys and Compounds*, **2019**, 778, 327-336	5.7	4

1139	Mechanical properties of the magnetocaloric intermetallic LaFe11.2Si1.8 alloy at different length scales. *Acta Materialia*, **2019**, 165, 40-50	8.4	10
1138	Co-Cr-Mo-C-B metallic glasses with wide supercooled liquid region obtained by systematic adjustment of the metalloid ratio. *Journal of Non-Crystalline Solids*, **2019**, 505, 310-319	3.9	4
1137	Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases. *Powder Technology*, **2019**, 343, 733-737	5.2	1
1136	A comparative study of glass-forming ability, crystallization kinetics and mechanical properties of Zr55Co25Al20 and Zr52Co25Al23 bulk metallic glasses. *Journal of Alloys and Compounds*, **2019**, 785, 422-428	5.7	22
1135	Annealing-assisted high-pressure torsion in Zr55Cu30Al10Ni5 metallic glass. *Journal of Alloys and Compounds*, **2019**, 784, 1323-1333	5.7	10
1134	Estimation of diffusivity from densification data obtained during spark plasma sintering. *Scripta Materialia*, **2019**, 161, 36-39	5.6	14
1133	Powder metallurgy of Al-based composites reinforced with Fe-based glassy particles: Effect of microstructural modification. *Particulate Science and Technology*, **2019**, 37, 286-291	2	6
1132	Universally scaling Hall-Petch-like relationship in metallic glass matrix composites. *International Journal of Plasticity*, **2018**, 105, 225-238	7.6	33
1131	On cryothermal cycling as a method for inducing structural changes in metallic glasses. *NPG Asia Materials*, **2018**, 10, 137-145	10.3	50
1130	Origin of large plasticity and multiscale effects in iron-based metallic glasses. *Nature Communications*, **2018**, 9, 1333	17.4	61
1129	A heat treatable TiB2/Al-3.5Cu-1.5Mg-1Si composite fabricated by selective laser melting: Microstructure, heat treatment and mechanical properties. *Composites Part B: Engineering*, **2018**, 147, 162-168	10	90
1128	Thermally-triggered Dual In-situ Self-healing Metallic Materials. *Scientific Reports*, **2018**, 8, 2120	4.9	7
1127	Anisotropy in local microstructure Does it affect the tensile properties of the SLM samples?. *Manufacturing Letters*, **2018**, 15, 33-37	4.5	37
1126	Microstructures, Martensitic Transformation, and Mechanical Behavior of Rapidly Solidified Ti-Ni-Hf and Ti-Ni-Si Shape Memory Alloys. *Journal of Materials Engineering and Performance*, **2018**, 27, 1005-1015	1.6	3
1125	Local-structure change rendered by electronic localization-delocalization transition in cerium-based metallic glasses. *Physical Review B*, **2018**, 97,	3.3	3
1124	Amorphous martensite in Ti alloys. *Nature Communications*, **2018**, 9, 506	17.4	20
1123	High strength nanostructured Al-based alloys through optimized processing of rapidly quenched amorphous precursors. *Scientific Reports*, **2018**, 8, 1090	4.9	16
1122	Liquid ejection temperature dependence of structure and glass transition behavior for rapidly solidified Zr-Al-M (M=Ni, Cu or Co) ternary glassy alloys. *Journal of Alloys and Compounds*, **2018**, 739, 1104-1114	5.7	5

1121	Thermomechanical processing of In-containing β-type Ti-Nb alloys. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 79, 283-291	4.1	10
1120	Anisotropic elastic properties and phase stability of B2 and B19 CuZr structures under hydrostatic pressure. *Intermetallics*, **2018**, 98, 60-68	3.5	12
1119	Local nanoscale strain mapping of a metallic glass during in situ testing. *Applied Physics Letters*, **2018**, 112, 171905	3.4	22
1118	Dual self-organised shear banding behaviours and enhanced ductility in phase separating Zr-based bulk metallic glasses. *Philosophical Magazine*, **2018**, 98, 1744-1764	1.6	10
1117	Microstructure and mechanical properties of hierarchical multi-phase composites based on Al-Ni-type intermetallic compounds in the Al-Ni-Cu-Si alloy system. *Journal of Alloys and Compounds* , **2018**, 749, 205-210	5.7	29
1116	Microstructure and strength of nano-/ultrafine-grained carbon nanotube-reinforced titanium composites processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 722, 122-128	5.3	22
1115	Thermal behavior, structural relaxation and magnetic study of a new Hf-microalloyed Co-based glassy alloy with high thermal stability. *Journal of Alloys and Compounds*, **2018**, 748, 553-560	5.7	6
1114	MnFePSi-based magnetocaloric packed bed regenerators: Structural details probed by X-ray tomography. *Chemical Engineering Science*, **2018**, 175, 84-90	4.4	6
1113	Wetting, reactivity, and phase formation at interfaces between Ni-Al melts and TiB2 ultrahigh-temperature ceramic. *Journal of the American Ceramic Society*, **2018**, 101, 911-918	3.8	11
1112	Metal release and cell biological compatibility of beta-type Ti-40Nb containing indium. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 1686-1697	3.5	10
1111	Enhancing the interface bonding in carbon nanotubes reinforced Al matrix composites by the in situ formation of TiAl3 and TiC. *Journal of Alloys and Compounds*, **2018**, 765, 98-105	5.7	23
1110	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 733, 80-86	5.3	28
1109	Pressure-assisted sintering of AlGdNiCo amorphous alloy powders. *Materialia*, **2018**, 2, 157-166	3.2	10
1108	Martensitic Transformation and Plastic Deformation of TiCuNiZr-Based Bulk Metallic Glass Composites. *Metals*, **2018**, 8, 196	2.3	9
1107	Deformation localization in metallic glasses studied by in situ TEM deformation. *Microscopy and Microanalysis*, **2018**, 24, 1820-1821	0.5	
1106	Metallic glass nanolaminates with shape memory alloys. *Acta Materialia*, **2018**, 159, 344-351	8.4	29
1105	Cooperative deformation behavior between the shear band and boundary sliding of an Al-based nanostructure-dendrite composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 735, 81-88	5.3	19
1104	Ductile bulk metallic glass by controlling structural heterogeneities. *Scientific Reports*, **2018**, 8, 9174	4.9	31

1103	Effects of new beta-type Ti-40Nb implant materials, brain-derived neurotrophic factor, acetylcholine and nicotine on human mesenchymal stem cells of osteoporotic and non osteoporotic donors. *PLoS ONE*, **2018**, 13, e0193468	3.7	10
1102	Microstructure and mechanical properties of Al-Cu alloys fabricated by selective laser melting of powder mixtures. *Journal of Alloys and Compounds*, **2018**, 735, 2263-2266	5.7	63
1101	Elastostatic reversibility in thermally formed bulk metallic glasses: nanobeam diffraction fluctuation electron microscopy. *Nanoscale*, **2018**, 10, 1081-1089	7.7	7
1100	Rapid and partial crystallization to design ductile CuZr-based bulk metallic glass composites. *Materials and Design*, **2018**, 139, 132-140	8.1	36
1099	Microstructure and mechanical properties of a heat-treatable Al-3.5Cu-1.5Mg-1Si alloy produced by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 711, 562-570	5.3	73
1098	Coexistence of adjacent vacancy-ordered and eutectic phases in AlCuNi alloys. *Philosophical Magazine Letters*, **2018**, 98, 486-493	1	1
1097	Influence of Nb on the Microstructure and Fracture Toughness of (ZrFe)Nb Nano-Eutectic Composites. *Materials*, **2018**, 11,	3.5	10
1096	Strengthening Effects in Nano-/Ultrafine-Grained Carbon Nanotube Reinforced-Titanium Composites Investigated by Finite Element Modeling. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 6469-6478	2.3	5
1095	Additive Manufacturing of a 316L Steel Matrix Composite Reinforced with CeO2 Particles: Process Optimization by Adjusting the Laser Scanning Speed. *Technologies*, **2018**, 6, 25	2.4	19
1094	Structural and mechanical characterization of heterogeneities in a CuZr-based bulk metallic glass processed by high pressure torsion. *Acta Materialia*, **2018**, 160, 147-157	8.4	27
1093	Electrosorption of Hydrogen in Pd-Based Metallic Glass Nanofilms. *ACS Applied Energy Materials*, **2018**, 1, 2630-2646	6.1	19
1092	Plastic deformation mechanisms in severely strained eutectic high entropy composites explained via strain rate sensitivity and activation volume. *Composites Part B: Engineering*, **2018**, 150, 7-13	10	23
1091	Effect of boron addition on thermal and mechanical properties of Co-Cr-Mo-C-(B) glass-forming alloys. *Intermetallics*, **2018**, 99, 1-7	3.5	15
1090	Influence of severe straining and strain rate on the evolution of dislocation structures during micro-/nanoindentation in high entropy lamellar eutectics. *International Journal of Plasticity*, **2018**, 109, 121-136	7.6	31
1089	Correlation between the atomic configurations and the amorphous-to-icosahedral phase transition in metallic glasses. *Journal of Materials Research*, **2018**, 33, 2775-2783	2.5	1
1088	Structure of glassy Cu47.5Zr47.5Ag5 investigated with neutron diffraction with isotopic substitution, X-ray diffraction, EXAFS and reverse Monte Carlo simulation. *Journal of Non-Crystalline Solids*, **2017**, 459, 99-102	3.9	6
1087	Corrosion properties of high-strength nanocrystalline Al 84 Ni 7 Gd 6 Co 3 alloy produced by hot pressing of metallic glass. *Journal of Alloys and Compounds*, **2017**, 707, 63-67	5.7	6
1086	Designing a novel functional-structural NiTi/hydroxyapatite composite with enhanced mechanical properties and high bioactivity. *Intermetallics*, **2017**, 84, 35-41	3.5	9

1085	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 688, 20-26	5.3	184
1084	Microstructure and thermal expansion behavior of Al-50Si synthesized by selective laser melting. *Journal of Alloys and Compounds*, **2017**, 699, 548-553	5.7	39
1083	Deformation mechanisms to ameliorate the mechanical properties of novel TRIP/TWIP Co-Cr-Mo-(Cu) ultrafine eutectic alloys. *Scientific Reports*, **2017**, 7, 39959	4.9	24
1082	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO by Chemical Vapor Deposition. *ACS Nano*, **2017**, 11, 1946-1956	16.7	87
1081	Transient nucleation and microstructural design in flash-annealed bulk metallic glasses. *Acta Materialia*, **2017**, 127, 416-425	8.4	42
1080	Micro-patterning by thermoplastic forming of Ni-free Ti-based bulk metallic glasses. *Materials and Design*, **2017**, 120, 204-211	8.1	17
1079	Selective laser melting of ultra-high-strength TRIP steel: processing, microstructure, and properties. *Journal of Materials Science*, **2017**, 52, 4944-4956	4.3	21
1078	Local melting to design strong and plastically deformable bulk metallic glass composites. *Scientific Reports*, **2017**, 7, 42518	4.9	15
1077	Glass-forming ability and microstructural evolution of [(Fe0.6Co0.4)0.75Si0.05B0.20]96-xNb4Mx metallic glasses studied by M□sbauer spectroscopy. *Journal of Alloys and Compounds*, **2017**, 704, 748-759	5.7	8
1076	Structural, elastic and electronic properties of CoZr in B2 and B33 structures under high pressure. *Journal of Alloys and Compounds*, **2017**, 705, 445-455	5.7	13
1075	Micropatterning kinetics of different glass-forming systems investigated by thermoplastic net-shaping. *Scripta Materialia*, **2017**, 137, 127-131	5.6	10
1074	Mechanochemical synthesis of nanostructured metal nitrides, carbonitrides and carbon nitride: a combined theoretical and experimental study. *Physical Chemistry Chemical Physics*, **2017**, 19, 12414-12424	3.6	9
1073	Reciprocating sliding wear behavior of high-strength nanocrystalline Al 84 Ni 7 Gd 6 Co 3 alloys. *Wear*, **2017**, 382-383, 78-84	3.5	11
1072	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. *Materials Research Letters*, **2017**, 5, 386-390	7.4	182
1071	Influence of the Ag concentration on the medium-range order in a CuZrAlAg bulk metallic glass. *Scientific Reports*, **2017**, 7, 44903	4.9	18
1070	Processing of Ti-5553 with improved mechanical properties via an in-situ heat treatment combining selective laser melting and substrate plate heating. *Materials and Design*, **2017**, 130, 83-89	8.1	39
1069	Microstructure and abrasive wear behavior of a novel FeCrMoVC laser cladding alloy for high-performance tool steels. *Wear*, **2017**, 382-383, 107-112	3.5	29
1068	Atomic origin for rejuvenation of a Zr-based metallic glass at cryogenic temperature. *Journal of Alloys and Compounds*, **2017**, 718, 254-259	5.7	16

1067	Mechanism of formation of fibrous eutectic Si and thermal conductivity of SiC p /Al-20Si composites solidified under high pressure. *Journal of Alloys and Compounds*, **2017**, 709, 329-336	5.7	18
1066	Dichlorosilane-derived nano-silicon inside hollow carbon spheres as a high-performance anode for Li-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 9262-9271	13	21
1065	Type Ti-based bulk metallic glass composites with tailored structural metastability. *Journal of Alloys and Compounds*, **2017**, 708, 972-981	5.7	30
1064	Rapid fabrication of function-structure-integrated NiTi alloys: Towards a combination of excellent superelasticity and favorable bioactivity. *Intermetallics*, **2017**, 82, 1-13	3.5	8
1063	Hierarchical surface patterning of Ni- and Be-free Ti- and Zr-based bulk metallic glasses by thermoplastic net-shaping. *Materials Science and Engineering C*, **2017**, 73, 398-405	8.3	14
1062	Formation of metastable cellular microstructures in selective laser melted alloys. *Journal of Alloys and Compounds*, **2017**, 707, 27-34	5.7	235
1061	Defining the tensile properties of Al-12Si parts produced by selective laser melting. *Acta Materialia*, **2017**, 126, 25-35	8.4	208
1060	Thermal stability and latent heat of Nb ich martensitic Ti-Nb alloys. *Journal of Alloys and Compounds*, **2017**, 697, 300-309	5.7	35
1059	Effect of replacing Nb with (Mo and Zr) on glass forming ability, magnetic and mechanical properties of FeCoBSiNb bulk metallic glass. *Journal of Alloys and Compounds*, **2017**, 707, 78-81	5.7	18
1058	Influence of testing orientation on mechanical properties of Ti45Nb deformed by high pressure torsion. *Materials and Design*, **2017**, 114, 40-46	8.1	17
1057	A combined experimental and theoretical investigation of the Al-Melamine reactive milling system: A mechanistic study towards AlN-based ceramics. *Journal of Alloys and Compounds*, **2017**, 729, 240-248	5.7	8
1056	Microstructure evolution and mechanical properties of carbon nanotubes reinforced Al matrix composites. *Materials Characterization*, **2017**, 133, 122-132	3.9	40
1055	Designing a multifunctional Ti-2Cu-4Ca porous biomaterial with favorable mechanical properties and high bioactivity. *Journal of Alloys and Compounds*, **2017**, 727, 338-345	5.7	6
1054	Powder metallurgical processing of low modulus type Ti-45Nb to bulk and macro-porous compacts. *Powder Technology*, **2017**, 322, 393-401	5.2	10
1053	Structural modifications in sub-Tg annealed CuZr-based metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 707, 245-252	5.3	13
1052	Cryogenic-temperature-induced structural transformation of a metallic glass. *Materials Research Letters*, **2017**, 5, 284-291	7.4	22
1051	Influencing the crystallization of Fe80Nb10B10 metallic glass by ball milling. *Journal of Alloys and Compounds*, **2017**, 725, 227-236	5.7	13
1050	Effect of Co additions on the phase formation, thermal stability, and mechanical properties of rapidly solidified Ti u-based alloys. *Journal of Materials Research*, **2017**, 32, 2578-2584	2.5	2

1049	Stability of shear banding process in bulk metallic glasses and composites. *Journal of Materials Research*, **2017**, 32, 2560-2569	2.5	8
1048	Interface and stability analysis of Tantalum- and Titanium nitride thin films onto Lithiumniobate. *Applied Surface Science*, **2017**, 425, 254-260	6.7	5
1047	Hardening of shear band in metallic glass. *Scientific Reports*, **2017**, 7, 7076	4.9	9
1046	Friction welding of selective laser melted Ti6Al4V parts. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 704, 66-71	5.3	29
1045	Bond length deviation in CuZr metallic glasses. *Physical Review B*, **2017**, 96,	3.3	9
1044	Giant thermal expansion and precipitation pathways in Ti-alloys. *Nature Communications*, **2017**, 8, 1429	17.4	50
1043	Optimization of the Hot Forging Processing Parameters for Powder Metallurgy Fe-Cu-C Connecting Rods Based on Finite Element Simulation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 6027-6037	2.3	7
1042	Deformation Behavior of Powder Metallurgy Connecting Rod Preform During Hot Forging Based on Hot Compression and Finite Element Method Simulation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 2971-2978	2.3	6
1041	Composition optimization of low modulus and high-strength TiNb-based alloys for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 65, 866-871	4.1	77
1040	Hysteretic behavior of soft magnetic elastomer composites. *Journal of Magnetism and Magnetic Materials*, **2017**, 426, 60-63	2.8	23
1039	Effect of thermomechanical processing on the mechanical biofunctionality of a low modulus Ti-40Nb alloy. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 65, 137-150	4.1	43
1038	Microstructure, mechanical behavior, and wear properties of FeCrMoVC steel prepared by selective laser melting and casting. *Scripta Materialia*, **2017**, 126, 41-44	5.6	34
1037	Lifetime vs. rate capability: Understanding the role of FEC and VC in high-energy Li-ion batteries with nano-silicon anodes. *Energy Storage Materials*, **2017**, 6, 26-35	19.4	118
1036	Selective laser melting of Al-Zn-Mg-Cu: Heat treatment, microstructure and mechanical properties. *Journal of Alloys and Compounds*, **2017**, 707, 287-290	5.7	102
1035	Micro-to-nano-scale deformation mechanism of a Ti-based dendritic-ultrafine eutectic alloy exhibiting large tensile ductility. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 682, 673-678	5.3	19
1034	Ab-initio and experimental study of phase stability of Ti-Nb alloys. *Journal of Alloys and Compounds*, **2017**, 696, 481-489	5.7	30
1033	Structural modification through pressurized sub-Tg annealing of metallic glasses. *Journal of Applied Physics*, **2017**, 122, 215106	2.5	10
1032	Strain dependence of diffusion in Zr-based bulk amorphous alloy. *Journal of Applied Physics*, **2017**, 122, 245105	2.5	2

1031	Additive Manufacturing Processes: Selective Laser Melting, Electron Beam Melting and Binder Jetting-Selection Guidelines. *Materials*, **2017**, 10,	3.5	301
1030	Additive Manufacturing: Reproducibility of Metallic Parts. *Technologies*, **2017**, 5, 8	2.4	27
1029	Wetting behaviour and reactivity between liquid Gd and ZrO2 substrate. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2017**, 53, 285-293	1	2
1028	Shear avalanches in plastic deformation of a metallic glass composite. *International Journal of Plasticity*, **2016**, 77, 141-155	7.6	50
1027	Microstructure and properties of FeCrMoVC tool steel produced by selective laser melting. *Materials and Design*, **2016**, 89, 335-341	8.1	100
1026	Effect of reinforcement phase on the mechanical property of tungsten nanocomposite synthesized by spark plasma sintering. *International Journal of Refractory Metals and Hard Materials*, **2016**, 54, 14-18	4.1	15
1025	Ideal shear banding in metallic glass. *Philosophical Magazine*, **2016**, 96, 3159-3176	1.6	3
1024	Influence of Ag and Co additions on glass-forming ability, thermal and mechanical properties of Cu□r□l bulk metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 673, 90-98	5.3	22
1023	Formation and phase evolution of liquid phase-separated metallic glasses with double glass transition, crystallization and melting. *Materials Today Communications*, **2016**, 8, 64-71	2.5	5
1022	Granulation of Bulk Metallic Glass Forming Alloys as a Feedstock for Thermoplastic Forming and their Compaction into Bulk Samples. *Materials Science Forum*, **2016**, 879, 589-594	0.4	2
1021	Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. *Chemistry - A European Journal*, **2016**, 22, 13446-50	4.8	19
1020	Transformation-mediated plasticity in CuZr based metallic glass composites: A quantitative mechanistic understanding. *International Journal of Plasticity*, **2016**, 85, 34-51	7.6	49
1019	Substitution effect on glass formation of NixCo60□Nb40 alloys. *Materials Letters*, **2016**, 185, 541-544	3.3	
1018	Two-phase quasi-equilibrium in □ype Ti-based bulk metallic glass composites. *Scientific Reports*, **2016**, 6, 19235	4.9	34
1017	Towards the Better: Intrinsic Property Amelioration in Bulk Metallic Glasses. *Scientific Reports*, **2016** , 6, 27271	4.9	14
1016	Structural evolution and strength change of a metallic glass at different temperatures. *Scientific Reports*, **2016**, 6, 30876	4.9	32
1015	High pressure die casting of Fe-based metallic glass. *Scientific Reports*, **2016**, 6, 35258	4.9	22
1014	Correlation between structural heterogeneity and plastic deformation for phase separating FeCu metallic glasses. *Scientific Reports*, **2016**, 6, 34340	4.9	6

1013	Localized crystallization in shear bands of a metallic glass. *Scientific Reports*, **2016**, 6, 19358	4.9	18
1012	Compositional depth profiling of diamond-like carbon layers by glow discharge optical emission spectroscopy. *Journal of Analytical Atomic Spectrometry*, **2016**, 31, 2207-2212	3.7	6
1011	High Area Capacity Lithium-Sulfur Full-cell Battery with Prelitiathed Silicon Nanowire-Carbon Anodes for Long Cycling Stability. *Scientific Reports*, **2016**, 6, 27982	4.9	63
1010	Mechanochemical route to the synthesis of nanostructured Aluminium nitride. *Scientific Reports*, **2016**, 6, 33375	4.9	23
1009	Investigation of Ni-B Alloys for Joining of TiB2 Ultra-High-Temperature Ceramic. *Journal of Materials Engineering and Performance*, **2016**, 25, 3204-3210	1.6	7
1008	Simultaneous enhancements of strength and toughness in an Al-12Si alloy synthesized using selective laser melting. *Acta Materialia*, **2016**, 115, 285-294	8.4	287
1007	Synergistically Enhanced Polysulfide Chemisorption Using a Flexible Hybrid Separator with N and S Dual-Doped Mesoporous Carbon Coating for Advanced Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 14586-95	9.5	126
1006	Enhanced polysulphide redox reaction using a RuO2 nanoparticle-decorated mesoporous carbon as functional separator coating for advanced lithium-sulphur batteries. *Chemical Communications*, **2016**, 52, 8134-7	5.8	68
1005	Brittle-to-Ductile Transition in Metallic Glass Nanowires. *Nano Letters*, **2016**, 16, 4467-71	11.5	66
1004	Low Young's modulus Ti-based porous bulk glassy alloy without cytotoxic elements. *Acta Biomaterialia*, **2016**, 36, 323-31	10.8	23
1003	Interplay of the Open Circuit Potential-Relaxation and the Dissolution Behavior of a Single H2Bubble Generated at a Pt Microelectrode. *Journal of Physical Chemistry C*, **2016**, 120, 15137-15146	3.8	7
1002	Designing new biocompatible glass-forming Ti75-x Zr10 Nbx Si15 (x = 0, 15) alloys: corrosion, passivity, and apatite formation. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 27-38	3.5	18
1001	A novel high-throughput setup forin situpowder diffraction on coin cell batteries. *Journal of Applied Crystallography*, **2016**, 49, 340-345	3.8	53
1000	Structure-property relationships in nanoporous metallic glasses. *Acta Materialia*, **2016**, 106, 199-207	8.4	77
999	Manipulation of free volumes in a metallic glass through Xe-ion irradiation. *Acta Materialia*, **2016**, 106, 66-77	8.4	82
998	Interfacial interactions between liquid TiAl alloys and TiB2 ceramic. *Journal of Materials Science*, **2016**, 51, 1779-1787	4.3	9
997	Wettability and work of adhesion of liquid sulfur on carbon materials for electrical energy storage applications. *Carbon*, **2016**, 98, 702-707	10.4	7
996	Preparation of cast-iron-based nanocrystalline alloy with Cu and Nb addition. *Intermetallics*, **2016**, 69, 54-61	3.5	6

995	Wetting behaviour of CuGa alloys on 304L steel. *Materials and Design*, **2016**, 91, 11-18	8.1	4
994	Glass-forming ability, thermal stability of B2 CuZr phase, and crystallization kinetics for rapidly solidified CuZrZn alloys. *Journal of Alloys and Compounds*, **2016**, 664, 99-108	5.7	29
993	Reconfiguration of lithium sulphur batteries: Enhancement of LiS cell performance by employing a highly porous conductive separator coating. *Journal of Power Sources*, **2016**, 309, 76-81	8.9	57
992	Review on manufacture by selective laser melting and properties of titanium based materials for biomedical applications. *Materials Technology*, **2016**, 31, 66-76	2.1	63
991	Anodically fabricated TiO2SnO2 nanotubes and their application in lithium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 5542-5552	13	38
990	Role of 1,3-Dioxolane and LiNO3Addition on the Long Term Stability of Nanostructured Silicon/Carbon Anodes for Rechargeable Lithium Batteries. *Journal of the Electrochemical Society*, **2016**, 163, A557-A564	3.9	71
989	Ti-based bulk glassy composites obtained by replacement of Ni with Ga. *Intermetallics*, **2016**, 69, 28-34	3.5	5
988	Microstructure and phase formation in Al20Si5Fe3Cu1Mg synthesized by selective laser melting. *Journal of Alloys and Compounds*, **2016**, 657, 430-435	5.7	55
987	Improved cycling stability of lithiumsulfur batteries using a polypropylene-supported nitrogen-doped mesoporous carbon hybrid separator as polysulfide adsorbent. *Journal of Power Sources*, **2016**, 303, 317-324	8.9	96
986	Atomic structure and thermal behavior of (Co0.65,Fe0.35)72Ta8B20 metallic glass with excellent soft magnetic properties. *Intermetallics*, **2016**, 69, 21-27	3.5	9
985	Structure and properties of sputter deposited crystalline and amorphous CuTi films. *Thin Solid Films*, **2016**, 598, 184-188	2.2	5
984	CVD growth of 1D and 2D sp2 carbon nanomaterials. *Journal of Materials Science*, **2016**, 51, 640-667	4.3	59
983	Electron microscopy analysis of flash-annealed CuZr based bulk metallic glass **2016**, 754-755		
982	Effect of Alloying Elements in Melt Spun Mg-alloys for Hydrogen Storage. *Materials Research*, **2016**, 19, 20-26	1.5	
981	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. *Technologies*, **2016**, 4, 33	2.4	16
980	Characterization of 316L Steel Cellular Dodecahedron Structures Produced by Selective Laser Melting. *Technologies*, **2016**, 4, 34	2.4	32
979	Effect of Particle Size on Microstructure and Mechanical Properties of Al-Based Composite Reinforced with 10 Vol.% Mechanically Alloyed Mg-7.4%Al Particles. *Technologies*, **2016**, 4, 37	2.4	21
978	Tensile Properties of Al-12Si Fabricated via Selective Laser Melting (SLM) at Different Temperatures. *Technologies*, **2016**, 4, 38	2.4	24

977	Tungsten as a Chemically-Stable Electrode Material on Ga-Containing Piezoelectric Substrates Langasite and Catangasite for High-Temperature SAW Devices. *Materials*, **2016**, 9,	3.5	11
976	Ti/Al Multi-Layered Sheets: Accumulative Roll Bonding (Part A). *Metals*, **2016**, 6, 30	2.3	11
975	Ti/Al Multi-Layered Sheets: Differential Speed Rolling (Part B). *Metals*, **2016**, 6, 31	2.3	6
974	Analysis of the thermal and temporal stability of Ta and Ti thin films onto SAW substrate materials (LiNbO3 and LiTaO3) using AR-XPS. *Surface and Interface Analysis*, **2016**, 48, 570-574	1.5	3
973	Auger and X-ray photoelectron spectroscopy on lithiated HOPG. *Surface and Interface Analysis*, **2016**, 48, 501-504	1.5	2
972	Layered-to-Tunnel Structure Transformation and Oxygen Redox Chemistry in LiRhO2 upon Li Extraction and Insertion. *Inorganic Chemistry*, **2016**, 55, 7079-89	5.1	18
971	Influence of ejection temperature on structure and glass transition behavior for Zr-based rapidly quenched disordered alloys. *Acta Materialia*, **2016**, 116, 370-381	8.4	12
970	Effect of high pressure solidification on tensile properties and strengthening mechanisms of Al-20Si. *Journal of Alloys and Compounds*, **2016**, 688, 88-93	5.7	28
969	Kinetic analysis of the non-isothermal crystallization process, magnetic and mechanical properties of FeCoBSiNb and FeCoBSiNbCu bulk metallic glasses. *Journal of Applied Physics*, **2016**, 119, 073908	2.5	23
968	Microstructure and thermal conductivity of hypereutectic Al-high Si produced by casting and spray deposition. *Journal of Materials Research*, **2016**, 31, 2948-2955	2.5	7
967	Effect of Cu and Gd on Structural and Magnetic Properties of Fe-Co-B-Si-Nb Metallic Glasses. *Solid State Phenomena*, **2016**, 254, 60-64	0.4	1
966	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. *Scientific Reports*, **2016**, 6, 22524	4.9	2
965	Effect of substrate material on the growth and field emission characteristics of large-area carbon nanotube forests. *Journal of Applied Physics*, **2016**, 119, 044302	2.5	10
964	Local microstructure evolution at shear bands in metallic glasses with nanoscale phase separation. *Scientific Reports*, **2016**, 6, 25832	4.9	32
963	Reentrant spin-glass behavior and bipolar exchange-bias effect in Sn substituted cobalt-orthotitanate. *Journal of Applied Physics*, **2016**, 119, 043901	2.5	16
962	A study of the micro- and nanoscale deformation behavior of individual austenitic dendrites in a FeCrMoVC cast alloy using micro- and nanoindentation experiments. *Applied Physics Letters*, **2016**, 108, 143103	3.4	2
961	A comparative study on the isochronal and isothermal crystallization kinetics of Co46.45Fe25.55Ta8B20 soft magnetic metallic glass with high thermal stability. *Journal of Alloys and Compounds*, **2016**, 675, 223-230	5.7	24
960	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. *Surface and Coatings Technology*, **2016**, 294, 186-193	4.4	26

959	Microstructure and mechanical properties of the near-beta titanium alloy Ti-5553 processed by selective laser melting. *Materials and Design*, **2016**, 105, 75-80	8.1	97
958	Processing of Al□2Si□NM composites by selective laser melting and evaluation of compressive and wear properties. *Journal of Materials Research*, **2016**, 31, 55-65	2.5	84
957	Hierarchically nanostructured hollow carbon nanospheres for ultra-fast and long-life energy storage. *Carbon*, **2016**, 106, 306-313	10.4	28
956	Mapping of residual strains around a shear band in bulk metallic glass by nanobeam X-ray diffraction. *Acta Materialia*, **2016**, 111, 187-193	8.4	36
955	Laser surface remelting of a Cu-Al-Ni-Mn shape memory alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 661, 61-67	5.3	29
954	Improving the glass-forming ability and plasticity of a TiCu-based bulk metallic glass composite by minor additions of Si. *Journal of Alloys and Compounds*, **2016**, 663, 531-539	5.7	16
953	Ion milling-induced micrometer-sized heterogeneities and partial crystallization in a TiZrCuFeBe bulk metallic glass. *Intermetallics*, **2016**, 73, 5-11	3.5	8
952	Influence of processing parameters on the fabrication of a Cu-Al-Ni-Mn shape-memory alloy by selective laser melting. *Additive Manufacturing*, **2016**, 11, 23-31	6.1	61
951	Thermal oxidation behavior of glass-forming Ti-Zr-(Nb)-Si alloys. *Journal of Materials Research*, **2016**, 31, 1264-1274	2.5	2
950	Compression behavior of inter-particle regions in high-strength Al84Ni7Gd6Co3 alloy. *Materials Letters*, **2016**, 185, 25-28	3.3	7
949	Frontispiece: Alloying Behavior of Self-Assembled Noble Metal Nanoparticles. *Chemistry - A European Journal*, **2016**, 22,	4.8	1
948	Effect of cerium addition on microstructure and mechanical properties of high-strength Fe85Cr4Mo8V2C1 cast steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 674, 366-374	5.3	27
947	CenUMs □oncurrency enhanced usage models for statistical testing of complex systems with concurrent streams of use. *Science of Computer Programming*, **2016**, 132, 173-189	1.1	
946	Tailoring the Bain strain of martensitic transformations in TiNb alloys by controlling the Nb content. *International Journal of Plasticity*, **2016**, 85, 190-202	7.6	22
945	Processing, microstructure and mechanical properties of Al-based metal matrix composites reinforced with mechanically alloyed particles. *Journal of Materials Research*, **2016**, 31, 1229-1236	2.5	3
944	Negentropic stabilization of metastable □Ti in bulk metallic glass composites. *Scripta Materialia*, **2016**, 125, 19-23	5.6	18
943	Phase transformations and mechanical properties of biocompatible Ti□6.1Nb processed by severe plastic deformation. *Journal of Alloys and Compounds*, **2015**, 628, 434-441	5.7	46
942	Production of high strength Al85Nd8Ni5Co2 alloy by selective laser melting. *Additive Manufacturing*, **2015**, 6, 1-5	6.1	101

941	A size dependent evaluation of the cytotoxicity and uptake of nanographene oxide. *Journal of Materials Chemistry B*, **2015**, 3, 2522-2529	7.3	46
940	Fabrication of Fe-based bulk metallic glass by selective laser melting: A parameter study. *Materials and Design*, **2015**, 86, 703-708	8.1	179
939	Challenges for lithium species identification in complementary Auger and X-ray photoelectron spectroscopy. *Journal of Power Sources*, **2015**, 288, 434-440	8.9	10
938	Intrinsic versus extrinsic effects on serrated flow of bulk metallic glasses. *Intermetallics*, **2015**, 66, 31-39	3.5	29
937	Direct synthesis of graphene from adsorbed organic solvent molecules over copper. *RSC Advances*, **2015**, 5, 60884-60891	3.7	27
936	Vertical Graphene Growth from Amorphous Carbon Films Using Oxidizing Gases. *Journal of Physical Chemistry C*, **2015**, 119, 17965-17970	3.8	7
935	Ordering of water in opals with different microstructures. *European Journal of Mineralogy*, **2015**, 27, 203-213	2.2	15
934	Emulsion soft templating of carbide-derived carbon nanospheres with controllable porosity for capacitive electrochemical energy storage. *Journal of Materials Chemistry A*, **2015**, 3, 17983-17990	13	18
933	Evaluation of a mobile vacuum transfer system for in vacuo XPS analysis using as-deposited Ti thin-films. *Vacuum*, **2015**, 117, 81-84	3.7	14
932	Effect of cooling rate on the microstructure and properties of FeCrVC. *Journal of Alloys and Compounds*, **2015**, 634, 200-207	5.7	18
931	Effect of indium (In) on corrosion and passivity of a beta-type TiNb alloy in Ringer's solution. *Applied Surface Science*, **2015**, 335, 213-222	6.7	26
930	Length scale-dependent structural relaxation in Zr57.5Ti7.5Nb5Cu12.5Ni10Al7.5 metallic glass. *Journal of Alloys and Compounds*, **2015**, 639, 465-469	5.7	19
929	Nanostructure formation mechanism during in-situ consolidation of copper by room-temperature ball milling. *Materials & Design*, **2015**, 65, 1083-1090		5
928	Formation of nano-porous GeOx by de-alloying of an AlGeMn amorphous alloy. *Scripta Materialia*, **2015**, 104, 49-52	5.6	10
927	Effect of Metallic Glass Particle Size on the Contact Resistance of Ag/Metallic Glass Electrode. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 2443-2448	2.3	4
926	Effect of Ga on the Wettability of CuGa10 on 304L Steel. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2015**, 46, 1647-1653	2.5	3
925	Selective Laser Melting of Ti-45Nb Alloy. *Metals*, **2015**, 5, 686-694	2.3	60
924	Evolution of microstructure and mechanical properties of as-cast Al-50Si alloy due to heat treatment and P modifier content. *Materials & Design*, **2015**, 74, 150-156		37

923	Influence of Al on glass forming ability and nanocrystallization behavior of cast-iron based bulk amorphous alloy. *Journal of Materials Research*, **2015**, 30, 818-824	2.5	2
922	Asymmetric first-order transition and interlocked particle state in magnetocaloric La(Fe,Si)13. *Physica Status Solidi - Rapid Research Letters*, **2015**, 9, 136-140	2.5	41
921	Comparing the pitting corrosion behavior of prominent Zr-based bulk metallic glasses. *Journal of Materials Research*, **2015**, 30, 233-241	2.5	16
920	Self-Organized TiO2/CoO Nanotubes as Potential Anode Materials for Lithium Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 909-919	8.3	41
919	Thermal stability of B2 CuZr phase, microstructural evolution and martensitic transformation in CuZrTi alloys. *Intermetallics*, **2015**, 67, 177-184	3.5	16
918	Al-based matrix composites reinforced with short Fe-based metallic glassy fiber. *Journal of Alloys and Compounds*, **2015**, 651, 170-175	5.7	30
917	Inhomogeneous thermal expansion of metallic glasses in atomic-scale studied by in-situ synchrotron X-ray diffraction. *Journal of Applied Physics*, **2015**, 117, 044902	2.5	8
916	Deformation behavior of metallic glass composites reinforced with shape memory nanowires studied via molecular dynamics simulations. *Applied Physics Letters*, **2015**, 106, 211902	3.4	41
915	Flash Joule heating for ductilization of metallic glasses. *Nature Communications*, **2015**, 6, 7932	17.4	55
914	Concurrent streams in Markov chain usage models for statistical testing of complex systems **2015**,		1
913	Effect of Powder Particle Shape on the Properties of In Situ TiTiB Composite Materials Produced by Selective Laser Melting. *Journal of Materials Science and Technology*, **2015**, 31, 1001-1005	9.1	156
912	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. *ACS Nano*, **2015**, 9, 11408-13	16.7	89
911	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. *Chemistry of Materials*, **2015**, 27, 5964-5973	9.6	27
910	Structure evolution of soft magnetic (Fe36Co36B19.2Si4.8Nb4)100Cu (x= 0 and 0.5) bulk glassy alloys. *Acta Materialia*, **2015**, 95, 335-342	8.4	17
909	Effect of boron on microstructure and mechanical properties of multicomponent titanium alloys. *Materials Letters*, **2015**, 158, 111-114	3.3	19
908	SEI-component formation on sub 5 nm sized silicon nanoparticles in Li-ion batteries: the role of electrode preparation, FEC addition and binders. *Physical Chemistry Chemical Physics*, **2015**, 17, 24956-67	3.6	105
907	Viscosity and fragility of the supercooled liquids and melts from the FeCoBSiNb and FeMoPCBSi glass-forming alloy systems. *Intermetallics*, **2015**, 66, 48-55	3.5	14
906	Atomic structure and formation of CuZrAl bulk metallic glasses and composites. *Acta Materialia*, **2015**, 100, 369-376	8.4	28

905	Designed heterogeneities improve the fracture reliability of a Zr-based bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2015**, 646, 242-248	5.3	14
904	Low voltage transmission electron microscopy of graphene. *Small*, **2015**, 11, 515-42	11	37
903	Microstructure and mechanical properties of Mg□Al-based alloy modified with cerium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 625, 46-49	5.3	27
902	Tailoring Hollow Silicon□Carbon Nanocomposites As High-Performance Anodes in Secondary Lithium-Based Batteries through Economical Chemistry. *Chemistry of Materials*, **2015**, 27, 37-43	9.6	39
901	Direct growth of ultrafast transparent single-layer graphene defoggers. *Small*, **2015**, 11, 1840-6	11	78
900	Factors influencing the elastic moduli, reversible strains and hysteresis loops in martensitic Ti-Nb alloys. *Materials Science and Engineering C*, **2015**, 48, 511-20	8.3	41
899	Comparison of wear properties of commercially pure titanium prepared by selective laser melting and casting processes. *Materials Letters*, **2015**, 142, 38-41	3.3	177
898	A new type of La(Fe,Si)13-based magnetocaloric composite with amorphous metallic matrix. *Scripta Materialia*, **2015**, 95, 50-53	5.6	43
897	Enhancement of glass-forming ability and mechanical behavior of zirconium□anthanide two-phase bulk metallic glasses. *Journal of Alloys and Compounds*, **2015**, 618, 795-802	5.7	11
896	The thermal expansion behaviour of SiCp/Al□0Si composites solidified under high pressures. *Materials & Design*, **2015**, 65, 387-394		43
895	Glass formation in the Ti□u system with and without Si additions. *Journal of Alloys and Compounds*, **2015**, 618, 413-420	5.7	9
894	Magnetic compensation, field-dependent magnetization reversal, and complex magnetic ordering in Co2TiO4. *Physical Review B*, **2015**, 92,	3.3	36
893	Imprinting bulk amorphous alloy at room temperature. *Scientific Reports*, **2015**, 5, 16540	4.9	7
892	In Situ Electrochemical Analysis during Deformation of a Zr-Based Bulk Metallic Glass: A Sensitive Tool Revealing Early Shear Banding. *Advanced Engineering Materials*, **2015**, 17, 1532-1535	3.5	6
891	Functional Mesoporous Carbon-Coated Separator for Long-Life, High-Energy Lithium□ulfur Batteries. *Advanced Functional Materials*, **2015**, 25, 5285-5291	15.6	311
890	Nanostructured Ti-Zr-Pd-Si-(Nb) bulk metallic composites: Novel biocompatible materials with superior mechanical strength and elastic recovery. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 1569-79	3.5	6
889	Phase Separation in Rapid Solidified Ag-rich Ag-Cu-Zr Alloys. *Materials Research*, **2015**, 18, 120-126	1.5	7
888	Mechanical and Structural Investigation of Porous Bulk Metallic Glasses. *Metals*, **2015**, 5, 920-933	2.3	12

887	Effect of Milling Time and the Consolidation Process on the Properties of Al Matrix Composites Reinforced with Fe-Based Glassy Particles. *Metals*, **2015**, 5, 669-685	2.3	20
886	Stress-Corrosion Interactions in Zr-Based Bulk Metallic Glasses. *Metals*, **2015**, 5, 1262-1278	2.3	4
885	Deformation-Induced Martensitic Transformation in Cu-Zr-Zn Bulk Metallic Glass Composites. *Metals*, **2015**, 5, 2134-2147	2.3	16
884	Phase Formation, Thermal Stability and Mechanical Properties of a Cu-Al-Ni-Mn Shape Memory Alloy Prepared by Selective Laser Melting. *Materials Research*, **2015**, 18, 35-38	1.5	27
883	Lithium Insertion into Li2MoO4: Reversible Formation of (Li3Mo)O4 with a Disordered Rock-Salt Structure. *Chemistry of Materials*, **2015**, 27, 4485-4492	9.6	22
882	Structural aspects of elasto-plastic deformation of a Zr-based bulk metallic glass under uniaxial compression. *Acta Materialia*, **2015**, 95, 30-36	8.4	23
881	Crystallization Kinetics of Fe76.5 C6.0Si3.3B5.5P8.7Cu x (x = 0, 0.5, and 1 at. pct) Bulk Amorphous Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 2415-2421	2.3	17
880	Stress corrosion cracking of a Zr-based bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 639, 681-690	5.3	9
879	Oxidation as A Means to Remove Surface Contaminants on Cu Foil Prior to Graphene Growth by Chemical Vapor Deposition. *Journal of Physical Chemistry C*, **2015**, 119, 13363-13368	3.8	52
878	Vickers-indentation-induced crystallization in a metallic glass. *Applied Physics Letters*, **2015**, 106, 101909	3.4	8
877	Additive manufacturing of Cu 10Sn bronze. *Materials Letters*, **2015**, 156, 202-204	3.3	150
876	Tungsten/molybdenum thin films for application as interdigital transducers on high temperature stable piezoelectric substrates La3Ga5SiO14 and Ca3TaGa3Si2O14. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2015**, 202, 31-38	3.1	15
875	Hybrid nanostructured aluminum alloy with super-high strength. *NPG Asia Materials*, **2015**, 7, e229-e229	10.3	70
874	Mechanical behavior of porous commercially pure Ti and TiTiB composite materials manufactured by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 625, 350-356	5.3	185
873	Influence of annealing on microstructure and magnetic properties of cobalt-based amorphous/nanocrystalline powders synthesized by mechanical alloying. *Journal of Alloys and Compounds*, **2015**, 632, 296-302	5.7	11
872	Mesoporous Carbon Interlayers with Tailored Pore Volume as Polysulfide Reservoir for High-Energy LithiumSulfur Batteries. *Journal of Physical Chemistry C*, **2015**, 119, 4580-4587	3.8	110
871	High strength beta titanium alloys: New design approach. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 628, 297-302	5.3	53
870	Structural features of plastic deformation in bulk metallic glasses. *Applied Physics Letters*, **2015**, 106, 031903	3.4	21

869	Structural evolution in Ti-Cu-Ni metallic glasses during heating. *APL Materials*, **2015**, 3, 016101	5.7	11
868	Tensile properties of Al□12Si matrix composites reinforced with Ti□Al-based particles. *Journal of Alloys and Compounds*, **2015**, 630, 256-259	5.7	34
867	High-temperature wetting and interfacial interaction between liquid Al and TiB2 ceramic. *Journal of Materials Science*, **2015**, 50, 2682-2690	4.3	38
866	Hierarchical densification and negative thermal expansion in Ce-based metallic glass under high pressure. *Nature Communications*, **2015**, 6, 5703	17.4	29
865	Combining Time and Concurrency in Model-Based Statistical Testing of Embedded Real-Time Systems. *Lecture Notes in Computer Science*, **2015**, 22-31	0.9	1
864	Manufacture by selective laser melting and mechanical behavior of commercially pure titanium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 593, 170-177	5.3	448
863	Ab initio based study of finite-temperature structural, elastic and thermodynamic properties of FeTi. *Intermetallics*, **2014**, 45, 11-17	3.5	13
862	Influence of Co and Pd on the formation of nanostructured LaMg2Ni and its hydrogen reactivity. *Journal of Alloys and Compounds*, **2014**, 582, 647-658	5.7	22
861	Free-standing single-atom-thick iron membranes suspended in graphene pores. *Science*, **2014**, 343, 1228-32	33.5	223
860	Influence of ball milling on atomic structure and magnetic properties of Co40Fe22Ta8B30 glassy alloy. *Materials Characterization*, **2014**, 92, 96-105	3.9	3
859	Fabrication and mechanical properties of Al-based metal matrix composites reinforced with Mg65Cu20Zn5Y10 metallic glass particles. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 600, 53-58	5.3	62
858	FeCoSiBNbCu bulk metallic glass with large compressive deformability studied by time-resolved synchrotron X-ray diffraction. *Journal of Applied Physics*, **2014**, 115, 053520	2.5	13
857	Mechanical behavior of Al-based matrix composites reinforced with Mg58Cu28.5Gd11Ag2.5 metallic glasses. *Advanced Powder Technology*, **2014**, 25, 635-639	4.6	37
856	Room temperature in situ growth of B/BOx nanowires and BOx nanotubes. *Nano Letters*, **2014**, 14, 799-805	12.5	12
855	Crystallization kinetics of Co40Fe22Ta8B30 glassy alloy with high thermal stability and soft magnetic properties. *Journal of Alloys and Compounds*, **2014**, 605, 199-207	5.7	17
854	Texture development in Ti/Al filament wires produced by accumulative swaging and bundling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 607, 360-367	5.3	7
853	Role of surface functional groups in ordered mesoporous carbide-derived carbon/ionic liquid electrolyte double-layer capacitor interfaces. *ACS Applied Materials & Interfaces*, **2014**, 6, 2922-8	9.5	57
852	Phase transformations in ball-milled Ti□40Nb and Ti□45Nb powders upon quenching from the □phase region. *Powder Technology*, **2014**, 253, 166-171	5.2	27

851	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. *Chemistry of Materials*, **2014**, 26, 1074-1083	9.6	116
850	Bipolar porous polymeric frameworks for low-cost, high-power, long-life all-organic energy storage devices. *Journal of Power Sources*, **2014**, 245, 553-556	8.9	53
849	A universal transfer route for graphene. *Nanoscale*, **2014**, 6, 889-96	7.7	46
848	Al-based metal matrix composites reinforced with Fe49.9Co35.1Nb7.7B4.5Si2.8 glassy powder: Mechanical behavior under tensile loading. *Journal of Alloys and Compounds*, **2014**, 615, S382-S385	5.7	44
847	Mechanism of nanostructure formation in ball-milled Cu and Cu□wt%Zn studied by X-ray diffraction line profile analysis. *Journal of Alloys and Compounds*, **2014**, 588, 138-143	5.7	5
846	In situ studies of temperature-dependent behaviour and crystallisation of Ni36.5Pd36.5P27 metallic glass. *Journal of Alloys and Compounds*, **2014**, 615, S208-S212	5.7	13
845	Phase formation and mechanical properties of Ti□CuNi□r bulk metallic glass composites. *Acta Materialia*, **2014**, 65, 259-269	8.4	66
844	Possible Piezoelectric Materials CsMZr0.5(MoO4)3 (M = Al, Sc, V, Cr, Fe, Ga, In) and CsCrTi0.5(MoO4)3: Structure and Physical Properties. *Journal of Physical Chemistry C*, **2014**, 118, 1763-1773	4.8	23
843	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Ti□rSi alloy. *Intermetallics*, **2014**, 46, 156-163	3.5	35
842	Tensile properties of Al matrix composites reinforced with in situ devitrified Al84Gd6Ni7Co3 glassy particles. *Journal of Alloys and Compounds*, **2014**, 586, S419-S422	5.7	47
841	Microstructure and mechanical properties of Al□12Si produced by selective laser melting: Effect of heat treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 590, 153-160	5.3	481
840	Direct in situ observations of single Fe atom catalytic processes and anomalous diffusion at graphene edges. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15641-6	11.5	80
839	Thermal and soft magnetic properties of Co40Fe22Ta8B30 glassy particles: In-situ X-ray diffraction and magnetometry studies. *Journal of Applied Physics*, **2014**, 116, 054904	2.5	12
838	Analysis of surface pre-treatment for SAW-substrate material (LiNbO3) and deposited thin films of Ta/Ti using ARXPS. *Surface and Interface Analysis*, **2014**, 46, 1033-1038	1.5	7
837	Investigation of early cell-surface interactions of human mesenchymal stem cells on nanopatterned □type titanium-niobium alloy surfaces. *Interface Focus*, **2014**, 4, 20130046	3.9	16
836	Graphene Coatings for the Mitigation of Electron Stimulated Desorption and Fullerene Cap Formation. *Chemistry of Materials*, **2014**, 26, 4998-5003	9.6	5
835	XPS and AES sputter-depth profiling at surfaces of biocompatible passivated Ti-based alloys: concentration quantification considering chemical effects. *Surface and Interface Analysis*, **2014**, 46, 683-688	1.5	10
834	Hollow carbon nano-onions with hierarchical porosity derived from commercial metal organic framework. *Carbon*, **2014**, 79, 302-309	10.4	32

833	Experimental and thermodynamic assessment of the Nd□Ti system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2014**, 47, 136-143	1.9	4
832	Microstructure, electrical resistivity and stresses in sputter deposited W and Mo films and the influence of the interface on bilayer properties. *Thin Solid Films*, **2014**, 571, 1-8	2.2	16
831	Determination of the Young□s modulus of porous □type Ti□40Nb by finite element analysis. *Materials & Design*, **2014**, 64, 1-8		18
830	Electrochemical oxidation of trivalent chromium in a phosphate matrix: Li3Cr2(PO4)3 as cathode material for lithium ion batteries. *Electrochimica Acta*, **2014**, 139, 356-364	6.7	20
829	Evaluation of the relationship between the effective strain and the springback behavior during the deformation of metallic glass ribbons. *Applied Physics Letters*, **2014**, 105, 061906	3.4	2
828	An O2 transport study in porous materials within the Li□O2 □ system. *Journal of Power Sources*, **2014**, 269, 825-833	8.9	5
827	Composition-dependent magnitude of atomic shuffles in Ti□Nb martensites. *Journal of Applied Crystallography*, **2014**, 47, 1374-1379	3.8	42
826	In situ observations of Pt nanoparticles coalescing inside carbon nanotubes. *RSC Advances*, **2014**, 4, 49443-49445	3.7	5
825	Structural contribution to the ferroelectric fatigue in lead zirconate titanate ceramics. *Physical Review B*, **2014**, 90,	3.3	25
824	Processing of High Strength Light-Weight Metallic Composites. *Advanced Engineering Materials*, **2014**, 16, 1208-1216	3.5	11
823	Specific volume study of a bulk metallic glass far below its calorimetrically determined glass transition temperature. *Physical Review B*, **2014**, 89,	3.3	8
822	B1-Mobilstor: Materials for Sustainable Energy Storage Techniques □Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage. *Advanced Engineering Materials*, **2014**, 16, 1189-1195	3.5	14
821	Improved Electrochemical Performance of Cu3B2O6-Based Conversion Model Electrodes by Composite Formation with Different Carbon Additives. *Journal of the Electrochemical Society*, **2014**, 161, A1224-A1230	3.9	2
820	Chemical vapor deposition of twisted bilayer and few-layer MoSe□over SiO(x) substrates. *Nanotechnology*, **2014**, 25, 365603	3.4	13
819	ARXPS measurement simulation for improved data interpretation at complex Ta/Li-niobate interfaces. *Surface and Interface Analysis*, **2014**, 46, 1094-1098	1.5	2
818	Local stress gradients in Ti/Al composite wires determined by two-dimensional X-ray microdiffraction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 616, 44-54	5.3	1
817	Elastic softening of □type Ti-Nb alloys by indium (In) additions. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 39, 162-74	4.1	54
816	Carbohydrate-Derived Nanoarchitectures: On a Synergistic Effect Toward an Improved Performance in Lithium□Sulfur Batteries. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 126-129	8.3	27

815	Synthesis and characterization of amorphous Ni□r thin films. *Thin Solid Films*, **2014**, 561, 48-52	2.2	20
814	Structure of rapidly quenched (Cu0.5Zr0.5)100□Agx alloys (x=0□40at.%). *Journal of Alloys and Compounds*, **2014**, 607, 285-290	5.7	13
813	High-strength ultrafine grain Mg□.4%Al alloy synthesized by consolidation of mechanically alloyed powders. *Journal of Alloys and Compounds*, **2014**, 610, 456-461	5.7	28
812	Plastic Flow of a Cu50Zr45Ti5 Bulk Metallic Glass Composite. *Journal of Materials Science and Technology*, **2014**, 30, 609-615	9.1	23
811	Effect of ball milling on structure and thermal stability of Al84Gd6Ni7Co3 glassy powders. *Intermetallics*, **2014**, 46, 97-102	3.5	20
810	Spray forming of Cu□1.85Al□.2Ni□Mn (wt%) shape memory alloy. *Journal of Alloys and Compounds*, **2014**, 615, S602-S606	5.7	27
809	Microstructure and thermal expansion behavior of spray-deposited Al□0Si. *Materials & Design*, **2014**, 57, 585-591		61
808	Experimental and thermodynamic assessment of the Nd□r system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2014**, 46, 103-107	1.9	4
807	Microstructural Evolution and Mechanical Behaviour of Metastable Cu□rCo Alloys. *Journal of Materials Science and Technology*, **2014**, 30, 584-589	9.1	15
806	Al-based metal matrix composites reinforced with Al□Cu□e quasicrystalline particles: Strengthening by interfacial reaction. *Journal of Alloys and Compounds*, **2014**, 607, 274-279	5.7	56
805	Mechanical behavior and tensile/compressive strength asymmetry of ultrafine structured Ti□Nb□Ni□Co□Al alloys with bi-modal grain size distribution. *Materials & Design*, **2014**, 62, 14-20		21
804	Phase separation in Zr56-xGdxCo28Al16 metallic glasses (0 ? x ? 20). *Acta Materialia*, **2014**, 66, 262-272	8.4	29
803	Glow discharge plasma as a surface preparation tool for microstructure investigations. *Materials Characterization*, **2014**, 91, 76-88	3.9	16
802	Metallic glass□teel composite with improved compressive plasticity. *Materials & Design*, **2014**, 59, 241-245		12
801	Silicon oxycarbide-derived carbons from a polyphenylsilsequioxane precursor for supercapacitor applications. *Microporous and Mesoporous Materials*, **2014**, 188, 140-148	5.3	41
800	A growth mechanism for free-standing vertical graphene. *Nano Letters*, **2014**, 14, 3064-71	11.5	182
799	Electrical and magnetic properties of Fe-based bulk metallic glass with minor Co and Ni addition. *Journal of Magnetism and Magnetic Materials*, **2014**, 364, 80-84	2.8	24
798	Experimental and thermodynamic assessment of the Ce□r system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2014**, 46, 213-219	1.9	5

797	Selective laser melting of in situ titanium titanium boride composites: Processing, microstructure and mechanical properties. *Acta Materialia*, **2014**, 76, 13-22	8.4	375
796	Atomic structure and magnetic properties of FeNbB metallic glasses. *Journal of Alloys and Compounds*, **2014**, 586, S189-S193	5.7	25
795	Unusual oxidation behavior of light metal hydride by tetrahydrofuran solvent molecules confined in ordered mesoporous carbon. *Journal of Materials Research*, **2014**, 29, 55-63	2.5	1
794	About Replacement of Nickel as Amorphization Element for Fabrication of Ultra-Rapidly Solidified Ti-Zr Alloys. *Solid State Phenomena*, **2014**, 216, 3-10	0.4	
793	Correlation between atomic structure evolution and strength in a bulk metallic glass at cryogenic temperature. *Scientific Reports*, **2014**, 4, 3897	4.9	25
792	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. *Scientific Reports*, **2014**, 4, 6500	4.9	36
791	Preparation and Cycling Performance of Iron or Iron Oxide Containing Amorphous Al-Li Alloys as Electrodes. *Inorganics*, **2014**, 2, 674-682	2.9	
790	Influence of Annealing on Mechanical Properties of Al-20Si Processed by Selective Laser Melting. *Metals*, **2014**, 4, 28-36	2.3	117
789	Tribological and corrosion properties of AlSi12Si produced by selective laser melting. *Journal of Materials Research*, **2014**, 29, 2044-2054	2.5	108
788	Effect of geometrical constraint condition on the formation of nanoscale twins in the Ni-based metallic glass composite. *Philosophical Magazine Letters*, **2014**, 94, 351-360	1	3
787	Significant tensile ductility and toughness in an ultrafine-structured Ti 68.8 Nb 13.6 Co 6 Cu 5.1 Al 6.5 bi-modal alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 615, 457-463	5.3	25
786	Inverse Hall-Petch Like Mechanical Behaviour in Nanophase Al-Cu-Fe Quasicrystals: A New Phenomenon. *Acta Physica Polonica A*, **2014**, 126, 543-548	0.6	2
785	Pathways for novel magnetocaloric materials: A processing prospect. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2014**, 11, 1039-1042		9
784	Various sizes of sliding event bursts in the plastic flow of metallic glasses based on a spatiotemporal dynamic model. *Journal of Applied Physics*, **2014**, 116, 033520	2.5	18
783	Deformation and fracture behavior of composite structured Ti-Nb-Al-Co(-Ni) alloys. *Applied Physics Letters*, **2014**, 104, 071905	3.4	17
782	Thermosonic platinum wire bonding on platinum **2014**,		2
781	D2 Enertrode: Production Technologies and Component Integration of Nanostructured Carbon Electrodes for Energy Technology Functionalized Carbon Materials for Efficient Electrical Energy Supply. *Advanced Engineering Materials*, **2014**, 16, 1196-1201	3.5	
780	Chemical nanoroughening of Ti40Nb surfaces and its effect on human mesenchymal stromal cell response. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2014**, 102, 31-41	3.5	31

779	Retarding the corrosion of iron by inhomogeneous magnetic fields. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2014**, 65, 803-808	1.6	6
778	NaSbSn ternary phase diagram at room temperature for potential anode materials in sodium-ion batteries. *Solid State Ionics*, **2014**, 268, 261-264	3.3	11
777	Fabrication and characterization of Co40Fe22Ta8-xYxB30 (x = 0, 2.5, 4, 6, and 8) metallic glasses with high thermal stability and good soft magnetic properties. *Journal of Applied Physics*, **2014**, 116, 184904	2.5	4
776	Deformation at ambient and high temperature of Laves phases-ferrite composites. *Science and Technology of Advanced Materials*, **2014**, 15, 034801	7.1	9
775	Polarization Studies of Zr-Based Bulk Metallic Glasses for Electrochemical Machining. *Journal of the Electrochemical Society*, **2014**, 161, E66-E73	3.9	8
774	Microstructure evolution of gas-atomized Fe6.5 wt% Si droplets. *Journal of Materials Research*, **2014**, 29, 527-534	2.5	10
773	Comparative study of microstructures and mechanical properties of in situ TiTiB composites produced by selective laser melting, powder metallurgy, and casting technologies. *Journal of Materials Research*, **2014**, 29, 1941-1950	2.5	96
772	Selective laser melting of a beta-solidifying TNM-B1 titanium aluminide alloy. *Journal of Materials Processing Technology*, **2014**, 214, 1852-1860	5.3	107
771	Internal structural evolution and enhanced tensile plasticity of Ti-based bulk metallic glass and composite via cold rolling. *Journal of Alloys and Compounds*, **2014**, 615, S113-S117	5.7	25
770	Lithium dendrite and solid electrolyte interphase investigation using OsO4. *Journal of Power Sources*, **2014**, 266, 198-207	8.9	52
769	Magnetic field templated patterning of the soft magnetic alloy CoFe. *Electrochimica Acta*, **2014**, 123, 477-484	6.7	7
768	Phase formation of Cu50CoxZr50 (x = 020 at.%) alloys: Influence of cooling rate. *Journal of Alloys and Compounds*, **2014**, 590, 428-434	5.7	18
767	Effects of high pressure and SiC content on microstructure and precipitation kinetics of Al20Si alloy. *Journal of Alloys and Compounds*, **2014**, 586, 639-644	5.7	28
766	Influences of residual stresses on the serrated flow in bulk metallic glass under elastostatic four-point bending A nanoindentation and atomic force microscopy study. *Acta Materialia*, **2014**, 70, 188-197	8.4	35
765	Microstructure and mechanical properties of new composite structured TiVAlCuNi alloys for spring applications. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 603, 76-83	5.3	22
764	Microstructure and mechanical properties of a newly developed high strength Mg54.7Cu11.5Ag3.3Gd5.5Sc25 alloy. *Intermetallics*, **2014**, 45, 84-88	3.5	
763	Friction welding of Al12Si parts produced by selective laser melting. *Materials & Design*, **2014**, 57, 632-637		80
762	Production of Porous Metallic Glass Granule by Optimizing Chemical Processing. *Journal of Korean Powder Metallurgy Institute*, **2014**, 21, 251-255	0.1	1

761	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy-Storage Material. *Advanced Energy Materials*, **2014**, 4, 1300645	21.8	90
760	Comparison of different post processing technologies for SLM generated 316l steel parts. *Rapid Prototyping Journal*, **2013**, 19, 173-179	3.8	77
759	Microstructure and magnetic properties of soft magnetic composites based on silicon resin coated Co40Fe22Ta8B30 glassy powders. *Intermetallics*, **2013**, 43, 1-7	3.5	12
758	Evidence for viscous flow nature in Zr60Al15Ni25 metallic glass subjected to cold rolling. *Applied Physics Letters*, **2013**, 103, 021907	3.4	4
757	Capillary flow of amorphous metal for high performance electrode. *Scientific Reports*, **2013**, 3, 2185	4.9	20
756	On the transformation-induced work-hardening behavior of Zr47.5Co47.5Al5 ultrafine-grained alloy. *Intermetallics*, **2013**, 35, 116-119	3.5	23
755	Effect of cold-rolling on the crystallization behavior of a CuZr-based bulk metallic glass. *Journal of Materials Science*, **2013**, 48, 6825-6832	4.3	7
754	Porous low modulus Ti40Nb compacts with electrodeposited hydroxyapatite coating for biomedical applications. *Materials Science and Engineering C*, **2013**, 33, 2280-7	8.3	25
753	Mechanical Alloying of β-Type Ti–Nb for Biomedical Applications. *Advanced Engineering Materials*, **2013**, 15, 262-268	3.5	17
752	Phase formation in rapid solidified Ag–Y alloys. *Journal of Applied Physics*, **2013**, 113, 104308	2.5	2
751	The effect of boron on microstructure and mechanical properties of high-strength cast FeCrVC. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 586, 267-275	5.3	14
750	Insights into the Early Growth of Homogeneous Single-Layer Graphene over Ni–Mo Binary Substrates. *Chemistry of Materials*, **2013**, 25, 3880-3887	9.6	27
749	Experimental and thermodynamic assessment of the Gd–Ti system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2013**, 42, 19-26	1.9	6
748	Size evaluation of nanostructured materials. *Materials Letters*, **2013**, 108, 343-345	3.3	8
747	Electrochemical micromachining of passive electrodes. *Electrochimica Acta*, **2013**, 109, 562-569	6.7	13
746	Effect of TaW particles on the microstructure and mechanical properties of metastable Cu47.5Zr47.5Al5 alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 587, 372-380	5.3	6
745	Microstructural characteristics of spray formed and heat treated Al–(Y, La)–Ni–Co system. *Journal of Alloys and Compounds*, **2013**, 578, 471-480	5.7	5
744	Short hydrogen bonds in 2,4-dinitrobenzoic acid complexed with pyridine. *Chemical Physics*, **2013**, 427, 87-94	2.3	2

743	Few-layer graphene shells and nonmagnetic encapsulates: a versatile and nontoxic carbon nanomaterial. *ACS Nano*, **2013**, 7, 10552-62	16.7	40
742	Structural Changes in the LiCrMnO4Cathode Material during Electrochemical Li Extraction and Insertion. *Journal of the Electrochemical Society*, **2013**, 160, A3082-A3089	3.9	14
741	On the Role of Vapor Trapping for Chemical Vapor Deposition (CVD) Grown Graphene over Copper. *Chemistry of Materials*, **2013**, 25, 4861-4866	9.6	52
740	Controlled surface modification of Ti-40Nb implant alloy by electrochemically assisted inductively coupled RF plasma oxidation. *Acta Biomaterialia*, **2013**, 9, 9201-10	10.8	21
739	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithium□sulfur batteries. *Carbon*, **2013**, 61, 245-253	10.4	115
738	Formation of new Cu-based nanocrystalline powders by mechanical alloying technique. *Powder Technology*, **2013**, 247, 172-177	5.2	16
737	Selective laser melting of La(Fe,Co,Si)13 geometries for magnetic refrigeration. *Journal of Applied Physics*, **2013**, 114, 043907	2.5	75
736	Liquid□liquid demixing and microstructure of Co□Cu□Zr alloys with low Zr content. *Intermetallics*, **2013**, 32, 250-258	3.5	14
735	Temperature dependence of the short-range order of Cu65Zr35 metallic glass. *Intermetallics*, **2013**, 32, 51-56	3.5	22
734	Magnetocaloric (Fe□B)-based amorphous alloys. *Journal of Magnetism and Magnetic Materials*, **2013**, 329, 101-104	2.8	32
733	Promoting nano/ultrafine-duplex structure via accelerated □precipitation in a □type titanium alloy severely deformed by high-pressure torsion. *Scripta Materialia*, **2013**, 68, 67-70	5.6	37
732	A bridge from monotectic alloys to liquid-phase-separated bulk metallic glasses: Design, microstructure and phase evolution. *Acta Materialia*, **2013**, 61, 2102-2112	8.4	49
731	Surface treatment, corrosion behavior, and apatite-forming ability of Ti-45Nb implant alloy. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 269-78	3.5	52
730	Processing metallic glasses by selective laser melting. *Materials Today*, **2013**, 16, 37-41	21.8	258
729	Fabrication and characterization of bulk glassy Co40Fe22Ta8B30 alloy with high thermal stability and excellent soft magnetic properties. *Acta Materialia*, **2013**, 61, 6609-6621	8.4	25
728	Structure of GP zones in Al□Si matrix composites solidified under high pressure. *Materials Letters*, **2013**, 109, 1-4	3.3	10
727	Effect of thermal stability of the amorphous substrate on the amorphous oxide growth on Zr□Al□(Cu,Ni) metallic glass surfaces. *Corrosion Science*, **2013**, 73, 1-6	6.8	36
726	NaAlH4 confined in ordered mesoporous carbon. *International Journal of Hydrogen Energy*, **2013**, 38, 8829-8837	6.7	15

725	Effect of Ti substitution on glass-forming ability and mechanical properties of a brittle Cu□rAl bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 563, 112-116	5.3	24
724	Thermal stability of amorphous oxide in Al87Ni3Y10 metallic glass. *Corrosion Science*, **2013**, 77, 1-5	6.8	17
723	Enhanced strength and transformation-induced plasticity in rapidly solidified Zr□Co□(Al) alloys. *Scripta Materialia*, **2013**, 68, 897-900	5.6	29
722	Influence of boron and oxygen on the microstructure and mechanical properties of high-strength Ti66Nb13Cu8Ni6.8Al6.2 alloys. *Acta Materialia*, **2013**, 61, 3324-3334	8.4	17
721	Effect of microstructure on the mechanical properties of as-cast Ti-Nb-Al-Cu-Ni alloys for biomedical application. *Materials Science and Engineering C*, **2013**, 33, 4795-801	8.3	31
720	DSC, XRD and TEM characterization of glassy Co40Fe22Ta8B30 alloy with very high thermal stability. *Materials Letters*, **2013**, 93, 322-325	3.3	12
719	Aromatic porous-honeycomb electrodes for a sodium-organic energy storage device. *Nature Communications*, **2013**, 4, 1485	17.4	274
718	Structural behaviour of Pd40Cu30Ni10P20 metallic glass under high pressure. *Intermetallics*, **2013**, 38, 9-13	3.5	11
717	Functionalised porous nanocomposites: a multidisciplinary approach to investigate designed structures for supercapacitor applications. *Journal of Materials Chemistry A*, **2013**, 1, 4904	13	22
716	Glass forming ability, thermal stability, crystallization and magnetic properties of [(Fe,Co,Ni)0.75Si0.05B0.20]95Nb4Zr1 metallic glasses. *Journal of Non-Crystalline Solids*, **2013**, 367, 30-36	3.9	13
715	Strong correlation of atomic thermal motion in the first coordination shell of a Cu-Zr metallic glass. *Applied Physics Letters*, **2013**, 102, 081901	3.4	6
714	Predicted glass-forming ability of Cu-Zr-Co alloys and their crystallization behavior. *Journal of Applied Physics*, **2013**, 113, 123505	2.5	10
713	Aqueous Solution Process for the Synthesis and Assembly of Nanostructured One-Dimensional □MoO3 Electrode Materials. *Chemistry of Materials*, **2013**, 25, 2557-2563	9.6	46
712	Mechanically driven phase transformation in single phase Al62.5Cu25Fe12.5 quasi-crystals: Effect of milling intensity. *Acta Materialia*, **2013**, 61, 3819-3830	8.4	12
711	Origin of intermittent plastic flow and instability of shear band sliding in bulk metallic glasses. *Physical Review Letters*, **2013**, 110, 225501	7.4	64
710	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithium-sulfur batteries. *Physical Chemistry Chemical Physics*, **2013**, 15, 6080-7	3.6	156
709	Local atomic arrangements and their topology in Ni□r and Cu□r glassy and crystalline alloys. *Acta Materialia*, **2013**, 61, 2509-2520	8.4	70
708	Phase separation in metallic glasses. *Progress in Materials Science*, **2013**, 58, 1103-1172	42.2	167

707	Enhancement of oxidation resistance of the supercooled liquid in Cu□r-based metallic glass by forming an amorphous oxide layer with high thermal stability. *Corrosion Science*, **2013**, 66, 1-4	6.8	37
706	Ti□CuNi shape memory bulk metallic glass composites. *Acta Materialia*, **2013**, 61, 151-162	8.4	71
705	Thermal stability and mechanical properties of Cu46Zr46Ag8 bulk metallic glass and its composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 559, 711-718	5.3	22
704	New (Fe0.9Ni0.1)77Mo5P9C7.5B1.5 glassy alloys with enhanced glass-forming ability and large compressive strain. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 560, 575-582	5.3	29
703	Designing biocompatible Ti-based metallic glasses for implant applications. *Materials Science and Engineering C*, **2013**, 33, 875-83	8.3	142
702	Advances inin situpowder diffraction of battery materials: a case study of the new beamline P02.1 at DESY, Hamburg. *Journal of Applied Crystallography*, **2013**, 46, 1117-1127	3.8	46
701	Synthesis of nanostructured AlN by solid state reaction of Al and diaminomaleonitrile. *Journal of Solid State Chemistry*, **2013**, 198, 542-547	3.3	14
700	New lithium copper borates with BO3 triangles: Li6CuB4O10, Li3CuB3O7, Li8Cu7B14O32, and Li2Cu9B12O28. *Inorganic Chemistry*, **2013**, 52, 13974-83	5.1	8
699	Polymeric Frameworks as Organic Semiconductors with Controlled Electronic Properties. *Journal of Physical Chemistry Letters*, **2013**, 4, 2977-2981	6.4	30
698	Phase separation in ternary Co-Gd-Ti liquids. *Journal of Physics Condensed Matter*, **2013**, 25, 245104	1.8	3
697	Production of customized hybrid porous structures by powder metallurgy of Ni59Zr20Ti16Si2Sn3 glassy powders. *Journal of Materials Research*, **2013**, 28, 2490-2498	2.5	3
696	Thermal stability and phase transformations of martensitic Ti-Nb alloys. *Science and Technology of Advanced Materials*, **2013**, 14, 055004	7.1	81
695	Production of Porous □Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. *Materials*, **2013**, 6, 5700-5712	3.5	63
694	Elastic and anelastic properties close to the Curie temperature of Fe-based bulk metallic glass. *Applied Physics Letters*, **2013**, 102, 041904	3.4	11
693	Tensile fracture dynamics and intrinsic plasticity of metallic glasses. *Applied Physics Letters*, **2013**, 102, 031908	3.4	7
692	Local temperature determination in power loaded surface acoustic wave structures using Raman spectroscopy. *Journal of Applied Physics*, **2013**, 114, 164317	2.5	5
691	Investigation of Copper-Cobalt-Oxides as Model Systems for Composite Interactions in Conversion-Type Electrodes for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2013**, 160, A1333-A1339	3.9	11
690	Roles of hydrogenation, annealing and field in the structure and magnetic entropy change of Tb-based bulk metallic glasses. *AIP Advances*, **2013**, 3, 032134	1.5	17

689	Electrochemical Deposition of Co(Cu)/Cu Multilayered Nanowires. *Journal of the Electrochemical Society*, **2013**, 160, D13-D19	3.9	15
688	Thickness dependent exchange bias in martensitic epitaxial Ni-Mn-Sn thin films. *AIP Advances*, **2013**, 3, 122112	1.5	17
687	High-mobility graphene on liquid p-block elements by ultra-low-loss CVD growth. *Scientific Reports*, **2013**, 3, 2670	4.9	69
686	Grain size softening effect in Al62.5Cu25Fe12.5 nanoquasicrystals. *Applied Physics Letters*, **2013**, 103, 201914	3.4	11
685	Production and characterization of Al 2024 matrix composites reinforced with Al3Mg2 complex metallic alloy particles. *Materials Research Society Symposia Proceedings*, **2013**, 1517, 1		2
684	Correlation between the microstructures and the deformation mechanisms of CuZr-based bulk metallic glass composites. *AIP Advances*, **2013**, 3, 012116	1.5	46
683	Amorphous Li-Al-Based Compounds: A Novel Approach for Designing High Performance Electrode Materials for Li-Ion Batteries. *Inorganics*, **2013**, 1, 14-31	2.9	4
682	Synthesis and Characterization of NanocrystallineMg-7.4%Al Powders Produced by Mechanical Alloying. *Metals*, **2013**, 3, 58-68	2.3	16
681	Processing of Intermetallic Titanium Aluminide Wires. *Metals*, **2013**, 3, 188-201	2.3	14
680	Metallographic Preparation of Aluminium-Titanium Composites. *Praktische Metallographie/Practical Metallography*, **2013**, 50, 739-753	0.3	8
679	Correlation Between Internal States and Strength in Bulk Metallic Glass **2013**, 3199-3206		
678	Study on the reversible Li-insertion of amorphous and partially crystalline Al86Ni8La6 and Al86Ni8Y6 alloys as anode materials for Li-ion batteries. *Electrochimica Acta*, **2012**, 60, 85-94	6.7	12
677	Microstructure and magnetic properties of amorphous/nanocrystalline Co40Fe22Ta8B30 alloy produced by mechanical alloying. *Materials Chemistry and Physics*, **2012**, 134, 1214-1224	4.4	43
676	Phase transitions in Al3Ca8 and Al14Ca13 intermetallic compounds induced by milling and annealing. *Materials Letters*, **2012**, 79, 145-147	3.3	4
675	Elastic constants of single crystalline Ti70Nb30. *Scripta Materialia*, **2012**, 66, 198-201	5.6	38
674	Metallic glasses: Notch-insensitive materials. *Scripta Materialia*, **2012**, 66, 733-736	5.6	65
673	Phase separation and magnetic properties in Gd(Hf,Ti,Y)CoAl metallic glasses. *Scripta Materialia*, **2012**, 67, 149-152	5.6	10
672	In situ martensitic phase reinforced FeNbNiMn ultrafine composite with enhanced mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 531, 51-54	5.3	11

671	Macroscopic tensile plasticity of bulk metallic glass through designed artificial defects. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 534, 365-373	5.3	75
670	Effect of Fe addition on glass forming ability and mechanical properties in Zr□Co□Al□(Fe) bulk metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 539, 124-127	5.3	28
669	Magnetic properties and magnetocaloric effect of rapidly quenched Gd□Co□Fe□Al alloys. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 1581-1587	2.8	9
668	Caloric Effects in Ferroic Materials: New Concepts for Cooling. *Advanced Engineering Materials*, **2012**, 14, 10-19	3.5	242
667	Novel Approach for Alternating Current (AC)-Driven Organic Light-Emitting Devices. *Advanced Functional Materials*, **2012**, 22, 210-217	15.6	68
666	Microstructural and mechanical characterization of an ultra-high-strength Fe86.7Cr4.4Mo0.6V1.1W2.5C4.7 alloy. *Journal of Materials Science*, **2012**, 47, 267-271	4.3	16
665	Solidification and melting of high temperature materials: in situ observations by synchrotron radiation. *Journal of Materials Science*, **2012**, 47, 4497-4513	4.3	19
664	Mechanical behavior of the cold-rolled Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 metallic glass□quasicrystalline composite. *International Journal of Materials Research*, **2012**, 103, 1113-1116	0.5	2
663	Modeling the strengthening effect of Al□Cu□Fe quasicrystalline particles in Al-based metal matrix composites. *Journal of Alloys and Compounds*, **2012**, 536, S130-S133	5.7	51
662	A Comparative Study of Various Supported Catalysts on the Growth of Aligned Carbon Nanotube Forests on Aluminum Foils. *Chemical Vapor Deposition*, **2012**, 18, 326-335		5
661	Phase separation in monotectic alloys as a route for liquid state fabrication of composite materials. *Journal of Materials Science*, **2012**, 47, 8360-8366	4.3	21
660	Sessile drop study of Gd□i monotectic alloys on ceramic substrates: phase transformations, wetting, and reactivity. *Journal of Materials Science*, **2012**, 47, 8381-8386	4.3	5
659	Study of structural anisotropy in Cu50Zr45Al5 metallic glass under uniaxial compression by molecular dynamics simulations. *Intermetallics*, **2012**, 30, 154-157	3.5	7
658	Formation of Cu□r□Al□r bulk metallic glass composites with enhanced deformability. *Intermetallics*, **2012**, 30, 132-138	3.5	32
657	Irreversible and reversible magnetic entropy change in a Dy-based bulk metallic glass. *Intermetallics* , **2012**, 30, 76-79	3.5	9
656	Influence of viscous flow on the deformation behavior of bulk metallic glassy alloys in supercooled liquid region. *Intermetallics*, **2012**, 30, 72-75	3.5	2
655	Theoretical approach to local and effective properties of BMG based matrix-inclusion nanocomposites. *Intermetallics*, **2012**, 30, 40-47	3.5	7
654	Internal state modulation-mediated plasticity enhancement in monolithic Ti-based bulk metallic glass. *Intermetallics*, **2012**, 29, 70-74	3.5	19

653	Formation of ZrCoAl bulk metallic glasses with high strength and large plasticity. *Intermetallics*, **2012**, 31, 282-286	3.5	41
652	Enhanced plasticity of FeNbB(Ni, Cu) bulk metallic glasses by controlling the heterogeneity and elastic constants. *Journal of Alloys and Compounds*, **2012**, 536, S70-S73	5.7	9
651	Effect of particle dispersion on the mechanical behavior of Al-based metal matrix composites reinforced with nanocrystalline AlCa intermetallics. *Journal of Alloys and Compounds*, **2012**, 536, S134-S137	5.7	31
650	Effect of short-term tempering on microstructure and mechanical properties of high-strength FeCrMoVC. *Acta Materialia*, **2012**, 60, 4468-4476	8.4	25
649	On the formation of an ultrafine-duplex structure facilitated by severe shear deformation in a Ti20Mo type titanium alloy. *Acta Materialia*, **2012**, 60, 5067-5078	8.4	33
648	Microstructure and magnetic properties of GdHfCoAl phase separated metallic glasses. *Intermetallics*, **2012**, 20, 115-122	3.5	14
647	Understanding the relationship between atomic structures and transport properties in (Cu0.5Zr0.5)100xAlx (10) glass forming liquids: Molecular dynamics simulations. *Journal of Alloys and Compounds*, **2012**, 514, 141-149	5.7	35
646	Phase-field modeling of eutectic TiFe alloy solidification. *Computational Materials Science*, **2012**, 63, 319-328	3.2	5
645	Triple yielding and deformation mechanisms in metastable Cu47.5Zr47.5Al5 composites. *Acta Materialia*, **2012**, 60, 6000-6012	8.4	113
644	Experimental and thermodynamic assessment of the GdZr system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2012**, 39, 27-32	1.9	12
643	Sputter crater formation in the case of microsecond pulsed glow discharge in a Grimm-type source. Comparison of direct current and radio frequency modes. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2012**, 76, 181-189	3.1	17
642	Nanostructured phase Ti31.0Fe9.0Sn and sub-m structured Ti39.3Nb13.3Zr10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. *Materials Science and Engineering C*, **2012**, 32, 2418-2425	8.3	66
641	Structural investigations of Ge5As(x)Se(95-x) and Ge15As(x)Se(85-x) glasses using x-ray diffraction and extended x-ray fine structure spectroscopy. *Journal of Physics Condensed Matter*, **2012**, 24, 385802	1.8	10
640	Study of direct relationship between atomic structures and glass forming abilities of Cu100-x Zrx (0 10) liquids by molecular dynamics simulations. *Journal of Applied Physics*, **2012**, 111, 053520	2.5	24
639	Magnetocaloric effect of an Fe-based metallic glass compared to benchmark gadolinium. *Journal of Applied Physics*, **2012**, 112, 123918	2.5	21
638	Production and Characterization of Brass-matrix Composites Reinforced with Ni59Zr20Ti16Si2Sn3 Glassy Particles. *Metals*, **2012**, 2, 79-94	2.3	28
637	An energy storage principle using bipolar porous polymeric frameworks. *Angewandte Chemie - International Edition*, **2012**, 51, 7850-4	16.4	150
636	Designing Zr-Cu-Co-Al Bulk Metallic Glasses with Phase Separation Mediated Plasticity. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 2598-2603	2.3	29

635	Atomic packing and short to medium range order in a U-Fe metallic glass. *Applied Physics Letters*, **2012**, 101, 021909	3.4	2
634	Effect of Cobalt on Phase Formation, Microstructure, and Mechanical Properties of Cu50−xCoxZr50 (x = 2, 5, 10, 20 at. pct) Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 2631-2636	2.3	13
633	Improving the Mechanical Properties of Fe-Nb-(Ni-Mn) Dendrite-Ultrafine Eutectic Composites via Controlling the Primary Phase Features. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 2680-2686	2.3	6
632	Thermal behaviour of Pd40Cu30Ni10P20 bulk metallic glass. *Acta Materialia*, **2012**, 60, 517-524	8.4	51
631	First-principles study of the thermodynamic and elastic properties of eutectic Fe–Ti alloys. *Acta Materialia*, **2012**, 60, 1594-1602	8.4	33
630	Interactions between mechanically generated defects and corrosion phenomena of Zr-based bulk metallic glasses. *Acta Materialia*, **2012**, 60, 2300-2309	8.4	34
629	Structural and magnetic nanoclusters in Cu50Zr50−xGdx (x = 5 at.%) metallic glasses. *Acta Materialia*, **2012**, 60, 1946-1956	8.4	17
628	Correlation between elastic structural behavior and yield strength of metallic glasses. *Acta Materialia*, **2012**, 60, 3074-3083	8.4	42
627	Serrated flow and stick–slip deformation dynamics in the presence of shear-band interactions for a Zr-based metallic glass. *Acta Materialia*, **2012**, 60, 4160-4171	8.4	169
626	Correlation between glass-forming ability, thermal stability, and crystallization kinetics of Cu-Zr-Ag metallic glasses. *Journal of Applied Physics*, **2012**, 112, 063503	2.5	33
625	The Effect of Microstructural Changes Induced by Annealing on Mechanical Properties of FeCoCrMoCBY Bulk Glassy Alloy. *Advanced Materials Research*, **2012**, 488-489, 861-865	0.5	1
624	Thermal Stability and Crystallization Kinetics of Ti40Zr10Cu34Pd14Sn2 Bulk Metallic Glass. *Solid State Phenomena*, **2012**, 188, 3-10	0.4	1
623	The precipitation of nanocrystalline structure in the joule heated Fe72Al5Ga2P11C6B4 metallic glasses. *Journal of Mining and Metallurgy, Section B: Metallurgy*, **2012**, 48, 319-324	1	2
622	Design of ductile bulk metallic glasses by adding soft atoms. *Applied Physics Letters*, **2012**, 100, 141901	3.4	53
621	Stable fracture of a malleable Zr-based bulk metallic glass. *Journal of Applied Physics*, **2012**, 112, 103533	2.5	31
620	Effect of tungsten metal particle sizes on the solubility of molten alloy melt: Experimental observation of Gibbs-Thomson effect in nanocomposites. *Applied Physics Letters*, **2012**, 101, 124103	3.4	4
619	Mechanism of the giant irreversible positive magnetic entropy change in a Tb-based bulk metallic glass. *Applied Physics Letters*, **2012**, 101, 062411	3.4	4
618	Pronounced ductility in CuZrAl ternary bulk metallic glass composites with optimized microstructure through melt adjustment. *AIP Advances*, **2012**, 2, 032176	1.5	31

617	Locally fluctuating cooling rate as possible reason for non-crystalline plasticity in metallic glasses. *Europhysics Letters*, **2012**, 98, 16003	1.6	6
616	Synthesis of functional porous metallic material from metallic glass composites precursor by powder metallurgy route. *Revue De Metallurgie*, **2012**, 109, 11-16		2
615	Micropatterning of Fe-based bulk metallic glass surfaces by pulsed electrochemical micromachining. *Journal of Materials Research*, **2012**, 27, 3033-3040	2.5	12
614	Oxidation resistance of the supercooled liquid in Cu50Zr50 and Cu46Zr46Al8 metallic glasses. *Journal of Materials Research*, **2012**, 27, 1178-1186	2.5	28
613	Prof. Dr. rer. nat. Ludwig Schultz. *International Journal of Materials Research*, **2012**, 103, 648-649	0.5	
612	Computer simulation of the matrix-inclusion interphase in bulk metallic glass based nanocomposites. *Journal of Physics Condensed Matter*, **2011**, 23, 425403	1.8	9
611	Thermal stability and magnetic properties of partially Co-substituted (Fe71.2B24Y4.8)96Nb4 bulk metallic glasses. *Journal of Applied Physics*, **2011**, 109, 054901	2.5	19
610	Atomic structure and transport properties of Cu50Zr45Al5 metallic liquids and glasses: Molecular dynamics simulations. *Journal of Applied Physics*, **2011**, 110, 093506	2.5	42
609	Phase separation in Cu46Zr47□Al7Gdx metallic glasses. *Journal of Alloys and Compounds*, **2011**, 509, S23-S26	5.7	22
608	Microstructure and mechanical properties of Fe□□Ti(Cu, Al) heterostructured ultrafine composites. *Journal of Alloys and Compounds*, **2011**, 509, S367-S370	5.7	5
607	Molecular dynamic simulation study of the structural anisotropy in Cu50Zr50 and Cu64.5Zr35.5 metallic glasses induced by static uniaxial loading within the elastic regime. *Journal of Alloys and Compounds*, **2011**, 509, S74-S77	5.7	5
606	Predicting glass-forming compositions in the Al□a and Al□aNi systems. *Journal of Alloys and Compounds*, **2011**, 509, S170-S174	5.7	6
605	Phase separation and microstructure evolution of rapidly quenched Gd□HfCo□l alloys. *Journal of Alloys and Compounds*, **2011**, 509, S42-S45	5.7	17
604	Effect of cold rolling on compressive and tensile mechanical properties of Zr52.5Ti5Cu18Ni14.5Al10 bulk metallic glass. *Journal of Alloys and Compounds*, **2011**, 509, S128-S130	5.7	48
603	Microstructures and magnetic properties of carbon nanotube/Co-oxide nanocomposite powders. *Journal of Alloys and Compounds*, **2011**, 509, S412-S415	5.7	4
602	Role of crystalline precipitates on the mechanical properties of (Cu0.50Zr0.50)100□Alx (x=4, 5, 7) bulk metallic glasses. *Journal of Alloys and Compounds*, **2011**, 509, S99-S104	5.7	22
601	Martensitic transformation and thermal cycling effect in Cu□Co□r alloys. *Journal of Alloys and Compounds*, **2011**, 509, S334-S337	5.7	26
600	Grain and crystallite size evaluation of cryomilled pure copper. *Journal of Alloys and Compounds*, **2011**, 509, S343-S347	5.7	24

599	Anisotropic mechanical behavior of ultrafine eutectic TiFe cast under non-equilibrium conditions. *Intermetallics*, **2011**, 19, 327-335	3.5	24
598	Study of mechanical property and crystallization of a ZrCoAl bulk metallic glass. *Intermetallics*, **2011**, 19, 567-571	3.5	54
597	Atomic cluster arrangements in Reverse Monte Carlo and Molecular Dynamics structural models of binary Cu□r Metallic Glasses. *Intermetallics*, **2011**, 19, 657-661	3.5	19
596	Significant tensile ductility induced by cold rolling in Cu47.5Zr47.5Al5 bulk metallic glass. *Intermetallics*, **2011**, 19, 1394-1398	3.5	75
595	Combined in-situ SAXS/WAXS and HRTEM study on crystallization of (Cu60Co40)1 □xZrx metallic glasses. *Journal of Non-Crystalline Solids*, **2011**, 357, 1538-1546	3.9	7
594	Structural study of AsS2□g glasses over a wide concentration range. *Journal of Non-Crystalline Solids*, **2011**, 357, 3430-3434	3.9	12
593	Crystallization of Fe82Si2B16and Fe82Si4B14metallic glasses upon isothermal and non-isothermal annealing. *EPJ Web of Conferences*, **2011**, 15, 01008	0.3	2
592	Ti-Al Composite Wires with High Specific Strength. *Metals*, **2011**, 1, 79-97	2.3	16
591	Tensile fracture criterion of metallic glass. *Journal of Applied Physics*, **2011**, 109, 083544	2.5	55
590	Dynamics of serrated flow in a bulk metallic glass. *AIP Advances*, **2011**, 1, 032158	1.5	61
589	Coupling effect of primary voids and secondary voids on the ductile fracture of heat-treatable aluminum alloys. *Mechanics of Materials*, **2011**, 43, 556-566	3.3	16
588	Effect of stacking fault energy on deformation behavior of cryo-rolled copper and copper alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 529, 230-236	5.3	72
587	Influence of embedded-carbon nanotubes on the thermal properties of copper matrix nanocomposites processed by molecular-level mixing. *Scripta Materialia*, **2011**, 64, 181-184	5.6	71
586	Manufacture by selective laser melting and mechanical behavior of a biomedical Ti□4Nb□Zr□Sn alloy. *Scripta Materialia*, **2011**, 65, 21-24	5.6	385
585	Ductile bulk metallic glasses produced through designed heterogeneities. *Scripta Materialia*, **2011**, 65, 815-818	5.6	64
584	Prediction of good glass formers in the Al-Ni-La and Al-Ni-Gd systems using topological instability and electronegativity. *Journal of Applied Physics*, **2011**, 109, 093509	2.5	9
583	Methodological challenges in combining quantum-mechanical and continuum approaches for materials science applications. *European Physical Journal Plus*, **2011**, 126, 1	3.1	20
582	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. *Acta Materialia*, **2011**, 59, 6620-6630	8.4	114

581	Interfacial tension, wetting and nucleation in AlBi and AlPb monotectic alloys. *Acta Materialia*, **2011**, 59, 6880-6889	8.4	60
580	Severe deformation twinning in pure copper by cryogenic wire drawing. *Acta Materialia*, **2011**, 59, 7816-7823	8.4	34
579	Deformation induced structural evolution in bulk metallic glasses. *Science Bulletin*, **2011**, 56, 3952-3959		2
578	Ductile Ti-Based Bulk Metallic Glasses with High Specific Strength. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 1456-1462	2.3	32
577	[(Fe0.5Co0.5)0.75B0.20Si0.05]96Nb4 Metallic Glasses with Small Cu Additions. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 1476-1480	2.3	15
576	AlNiYCo Amorphous Matrix Composites Induced by Bismuth and Lead Additions. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011**, 42, 4100-4105	2.3	6
575	Influence of Superheat on Microstructure and Mechanical Properties of Ductile Cu47.5Zr47.5Al5 Bulk Metallic Glass-Matrix Composite. *Journal of Materials Engineering and Performance*, **2011**, 20, 1196-1205	1.6	5
574	Transformation-induced plasticity in rapidly solidified Fe88.9Cr4.3V2.2C4.6. *Steel Research International*, **2011**, 82, 51-55	1.6	8
573	Improved Synthesis of Bulk Metallic Glasses by Current-Assisted Copper Mold Casting. *Advanced Engineering Materials*, **2011**, 13, 38-42	3.5	5
572	Intrinsically Ductile Failure in a Nanocrystalline Beta Titanium Alloy. *Advanced Engineering Materials* , **2011**, 13, 1108-1113	3.5	3
571	Current-induced mass transport in filled multiwalled carbon nanotubes. *Advanced Materials*, **2011**, 23, 541-4	24	23
570	Towards ultrastrong glasses. *Advanced Materials*, **2011**, 23, 4578-86	24	251
569	Electrical properties of the µs pulsed glow discharge in a Grimm-type source: comparison of dc and rf modes. *Journal of Analytical Atomic Spectrometry*, **2011**, 26, 784-791	3.7	16
568	Rapid growth and formation mechanism of ultrafine structural oxide eutectic ceramics by laser direct forming. *Applied Physics Letters*, **2011**, 99, 221913	3.4	24
567	Study of the Conversion Reaction Mechanism for Copper Borate as Electrode Material in Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2011**, 158, A898	3.9	15
566	Evolution of constitution, structure, and mechanical properties in Fe-Ti-Zr-B heterogeneous multiphase composites. *Journal of Materials Research*, **2011**, 26, 365-371	2.5	16
565	Epitaxial Electrodeposition of Fe3O4 on Single-Crystal Ni(111). *Chemistry of Materials*, **2011**, 23, 2017-2019	9.8	11
564	Effect of uniaxial loading on the structural anisotropy and the dynamics of atoms of Cu50Zr50 metallic glasses within the elastic regime studied by molecular dynamics simulation. *Acta Materialia* , **2011**, 59, 4303-4313	8.4	25

563	Microstructure and stress in high-k HfYO thin films. *Microelectronic Engineering*, **2011**, 88, 561-563	2.5	4
562	Influence of sample geometry on determination of magnetocaloric effect for Gd60Co30Al10 glassy ribbons using direct and indirect methods. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 1782-1786	2.8	25
561	New real ternary and pseudoternary phases in the LiAuIn system. *Journal of Solid State Chemistry*, **2011**, 184, 1328-1332	3.3	10
560	Effect of Al and Ag addition on phase formation, thermal stability, and mechanical properties of CuZr-based bulk metallic glasses. *Journal of Materials Research*, **2011**, 26, 1702-1710	2.5	8
559	Correlation between internal states and plasticity in bulk metallic glass. *Applied Physics Letters*, **2011**, 98, 151906	3.4	39
558	Fabrication and Response of Al70Y16Ni10Co4 Glass Reinforced Metal Matrix Composites. *Materials and Manufacturing Processes*, **2011**, 26, 1242-1247	4.1	20
557	Nanocrystalline metals and alloys prepared by mechanical attrition **2011**, 59-84		1
556	EFFECT OF COPPER ADDITIVES ON IRREVERSIBLE MELTING IN [{(Fe0.5Co0.5)0.75B0.2Si0.05}96Nb4]100-xCux, xB, ALLOYS. *International Journal of Nanoscience*, **2011**, 10, 1013-1017	0.6	0
555	The influence of in situ formed precipitates on the plasticity of Fe-Nb-B-Cu bulk metallic glasses. *Journal of Materials Research*, **2011**, 26, 2080-2086	2.5	11
554	Rapid Manufacturing of Cellular Structures of Steel or Titaniumalumide. *Materials Science Forum*, **2011**, 690, 103-106	0.4	11
553	Strain-induced structural transformation of single-phase AlCuFe icosahedral quasicrystal during mechanical milling. *Philosophical Magazine*, **2011**, 91, 2482-2490	1.6	20
552	Replacement of oxide glass with metallic glass for Ag screen printing metallization on Si emitter. *Applied Physics Letters*, **2011**, 98, 222112	3.4	17
551	Non-Isothermal Kinetic Analysis of the Crystallization of Metallic Glasses Using the Master Curve Method. *Materials*, **2011**, 4, 2231-2243	3.5	24
550	Magnetic ordering and slow dynamics in a Ho-based bulk metallic glass with moderate random magnetic anisotropy. *Journal of Applied Physics*, **2011**, 109, 113904	2.5	4
549	Effect of crystallization on the surface area of porous Ni-based metallic glass foams. *Philosophical Magazine Letters*, **2011**, 91, 582-590	1	5
548	Structural and Mechanical Characterization of ZrTiCuNiAl Bulk Metallic Glass. *Materials*, **2011**, 5, 1-11	3.5	8
547	Transformation-mediated ductility in CuZr-based bulk metallic glasses. *Nature Materials*, **2010**, 9, 473-7	27	407
546	Glass formation, thermal properties, and elastic constants of La-Al-Co alloys. *Journal of Materials Research*, **2010**, 25, 1398-1404	2.5	11

545	Effect of Residual Stress on Mechanical Property of Monolithic Bulk Metallic Glass. *Materials Science Forum*, **2010**, 654-656, 1050-1053	0.4	
544	Transformation-induced plasticity in Fe-Cr-V-C. *Journal of Materials Research*, **2010**, 25, 368-374	2.5	14
543	Microstructure, thermal, and mechanical characterization of rapidly solidified high strength Fe84.3Cr4.3Mo4.6V2.2C4.6. *Journal of Materials Research*, **2010**, 25, 1164-1171	2.5	7
542	Li(Al1-zZnz) alloys as anode materials for rechargeable Li-ion batteries. *Journal of Materials Research*, **2010**, 25, 1492-1499	2.5	17
541	Tensile fracture morphologies of bulk metallic glass. *Journal of Applied Physics*, **2010**, 108, 063509	2.5	50
540	Enhancement of plastic deformability in Fe□Ni□Nb□B bulk glassy alloys by controlling the Ni-to-Fe concentration ratio. *Applied Physics Letters*, **2010**, 96, 031905	3.4	50
539	Improving the plasticity of a high strength Fe□Si□Ti ultrafine composite by introduction of an immiscible element. *Applied Physics Letters*, **2010**, 97, 251915	3.4	26
538	Giant irreversible positive to large reversible negative magnetic entropy change evolution in Tb-based bulk metallic glass. *Physical Review B*, **2010**, 82,	3.3	19
537	In situ observations of self-repairing single-walled carbon nanotubes. *Physical Review B*, **2010**, 81,	3.3	24
536	Enhanced gas adsorption property of hybrid nanopore-structured copper oxide synthesized from the carbon nanotube/copper composites. *Journal of Applied Physics*, **2010**, 108, 064303	2.5	3
535	Effect of Sn on microstructure and mechanical properties of Ti-Fe-(Sn) ultrafine eutectic composites. *Journal of Materials Research*, **2010**, 25, 943-956	2.5	20
534	Shear band evolution during large plastic deformation of brittle and ductile metallic glasses. *Philosophical Magazine Letters*, **2010**, 90, 573-579	1	7
533	Medium range ordering and its effect on plasticity of Fe□Mn□B□□Nb bulk metallic glass. *Philosophical Magazine*, **2010**, 90, 2619-2633	1.6	25
532	High-strength ultrafine-grained Ti-Fe-Sn alloys with a bimodal structure. *Journal of Physics: Conference Series*, **2010**, 240, 012103	0.3	3
531	FeCo-based multiphase composites with high strength and large plastic deformation. *Intermetallics*, **2010**, 18, 134-139	3.5	23
530	Tailoring of in situ Ti-based bulk glassy matrix composites with high mechanical performance. *Intermetallics*, **2010**, 18, 1908-1911	3.5	19
529	Effect of prestraining on the deformation and fracture behavior of Zr44Ti11Cu9.8Ni10.2Be25. *Intermetallics*, **2010**, 18, 1902-1907	3.5	14
528	Phase separation in Ni70Nb30□Yx glasses. *Intermetallics*, **2010**, 18, 1842-1845	3.5	6

527	Multi-phase Al-based ultrafine composite with multi-scale microstructure. *Intermetallics*, **2010**, 18, 1829-1833	3.5	45
526	Mechanical behavior of metallic glass reinforced nanostructured tungsten composites synthesized by spark plasma sintering. *Intermetallics*, **2010**, 18, 2009-2013	3.5	7
525	Phase separation in NiNbY metallic glasses. *Journal of Alloys and Compounds*, **2010**, 495, 299-304	5.7	30
524	Crystallization behavior and consolidation of gas-atomized Al84Gd6Ni7Co3 glassy powder. *Journal of Alloys and Compounds*, **2010**, 491, 137-142	5.7	36
523	Mechanical properties of rapidly solidified FeAlB ternary alloys. *Journal of Alloys and Compounds*, **2010**, 504, S472-S475	5.7	4
522	Structure and mechanical properties of AlMg alloys produced by copper mold casting. *Journal of Alloys and Compounds*, **2010**, 504, S483-S486	5.7	8
521	Thermal stability and magnetic properties of FeCoBSiNb bulk metallic glasses. *Journal of Alloys and Compounds*, **2010**, 504, S123-S128	5.7	44
520	Corrosion and pitting behaviour of ultrafine eutectic TiFeSn alloys. *Journal of Alloys and Compounds*, **2010**, 503, 19-24	5.7	12
519	Changes in short-range order of Zr55Cu30Al10Ni5 and Zr55Cu20Al10Ni10Ti5 BMGs upon annealing. *Journal of Alloys and Compounds*, **2010**, 506, 85-87	5.7	16
518	Surface oxidation and magnetic properties of (Cu60Co40)68Zr32 glassy ribbons. *Journal of Alloys and Compounds*, **2010**, 506, 520-525	5.7	2
517	In situ observations of fullerene fusion and ejection in carbon nanotubes. *Nanoscale*, **2010**, 2, 2077-9	7.7	13
516	In situ high-energy x-ray diffraction observation of structural evolution in a Ti-based bulk metallic glass upon heating. *Journal of Materials Research*, **2010**, 25, 2271-2277	2.5	11
515	On the atomic structure of Zr60Cu20Fe20 metallic glass. *Journal of Physics Condensed Matter*, **2010**, 22, 404208	1.8	5
514	Production of high-strength Al85Y8Ni5Co2bulk alloy by spark plasma sintering. *Journal of Physics: Conference Series*, **2010**, 240, 012155	0.3	2
513	Al-based metal matrix composites reinforced with nanocrystalline Al-Ti-Ni particles. *Journal of Physics: Conference Series*, **2010**, 240, 012154	0.3	8
512	Mechanical Engineering Properties of CMAs **2010**, 273-315		2
511	Effect of Carbon Addition on the Microstructural Evolution and Mechanical Properties in Hypo-Eutectic Fe-Zr(-Nb) Alloys. *Materials Transactions*, **2010**, 51, 799-802	1.3	3
510	Criteria for tensile plasticity in CuZrAl bulk metallic glasses. *Acta Materialia*, **2010**, 58, 4883-4890	8.4	69

509	Influence of the anode material on the characteristics of an analytical glow discharge cell. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2010**, 65, 311-315	3.1	7
508	Microstructure and mechanical properties of partially amorphous Al85Y8Ni5Co2 plate produced by spray forming. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 2747-2758	5.3	15
507	Structure□property relations in bulk metallic Cu□Zr□Al alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 5867-5872	5.3	26
506	Deformation-induced grain refinement in body-centered cubic Co□Fe alloys upon room temperature compression. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 5796-5800	5.3	12
505	Enhanced □□interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. *Nano Research*, **2010**, 3, 92-97	10	14
504	Mechanical response of metallic glasses: Insights from in-situ high energy X-ray diffraction. *Jom*, **2010**, 62, 76-82	2.1	16
503	Evolution of Constitution, Structure, and Morphology in FeCo-Based Multicomponent Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 1640-1645	2.3	2
502	Deformation mechanisms of a bimodal eutectic Mg72Cu5Zn23 ultrafine composite. *Materials Letters*, **2010**, 64, 534-536	3.3	2
501	Effect of shot-peening on the corrosion resistance of a Zr-based bulk metallic glass. *Scripta Materialia*, **2010**, 62, 635-638	5.6	25
500	Improved plasticity of bulk metallic glasses upon cold rolling. *Scripta Materialia*, **2010**, 62, 678-681	5.6	107
499	Enhanced plastic deformation of Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass by the optimization of frictional boundary restraints. *Scripta Materialia*, **2010**, 62, 750-753	5.6	21
498	Plastically deformable Cu□r intermetallics. *Scripta Materialia*, **2010**, 63, 336-338	5.6	34
497	Solid Solution Sr2Sc1+xRe1□O6 with a Perovskite□Like Structure: Phase Transitions and Magnetic Properties. *European Journal of Inorganic Chemistry*, **2010**, 2010, 1196-1206	2.3	
496	Microstructural Modulations Enhance the Mechanical Properties in Al□Cu(Si, Ga) Ultrafine Composites. *Advanced Engineering Materials*, **2010**, 12, 1137-1141	3.5	14
495	Improved Room Temperature Plasticity of Zr41.2Ti13.8Cu12.5Ni10Be22.5 Bulk Metallic Glass by Channel-Die Compression. *Advanced Engineering Materials*, **2010**, 12, 1123-1126	3.5	14
494	Damascene Light-Weight Metals. *Advanced Engineering Materials*, **2010**, 12, 1191-1197	3.5	9
493	Magnetocaloric effect in Gd-based Gd60FexCo30□Al10 metallic glasses. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 2298-2303	2.8	45
492	TEM characterization of ALD layers in deep trenches using a dedicated FIB lamellae preparation method. *Thin Solid Films*, **2010**, 518, 4553-4555	2.2	7

491	Mechanical properties of cold-rolled Zr60Ti5Ag5Cu12.5Ni10Al7.5 metallic glass. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1118-1121	1.6	20
490	FeCoBSiNb bulk metallic glasses with Cu additions. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2010**, 7, 1331-1335		3
489	Topological and chemical ordering in Co43Fe20Ta5.5B31.5 metallic glass. *Physical Review B*, **2009**, 79,	3.3	22
488	Atomic structure evolution in bulk metallic glass under compressive stress. *Applied Physics Letters*, **2009**, 95, 251906	3.4	21
487	Modeling deformation behavior of Cu□rAl bulk metallic glass matrix composites. *Applied Physics Letters*, **2009**, 95, 101906	3.4	73
486	Direct observations on the evolution of shear bands into cracks in metallic glass. *Journal of Materials Research*, **2009**, 24, 3130-3135	2.5	31
485	Solid-state processing of Al-Mg alloys. *Journal of Physics: Conference Series*, **2009**, 144, 012019	0.3	9
484	Fracture mechanism of some brittle metallic glasses. *Journal of Applied Physics*, **2009**, 105, 103519	2.5	30
483	Crack evolution in bulk metallic glasses. *Journal of Applied Physics*, **2009**, 106, 103518	2.5	20
482	Enhanced Work Hardening of Cu-Based Bulk Metallic Glass Composites by In Situ Formed Nano-Scale Heterogeneities. *Materials Science Forum*, **2009**, 633-634, 665-673	0.4	2
481	High-strength Al87Ni8La5 bulk alloy produced by spark plasma sintering of gas atomized powders. *Journal of Materials Research*, **2009**, 24, 2909-2916	2.5	24
480	Serrated flow behavior induced by blunt mechanism of shear crack propagation in metallic glass. *Journal of Materials Research*, **2009**, 24, 436-440	2.5	2
479	Deformation-induced martensitic transformation in Cu□r(Al,Ti) bulk metallic glass composites. *Scripta Materialia*, **2009**, 60, 431-434	5.6	148
478	Formation of an ultrafine-grained structure during equal-channel angular pressing of a □itanium alloy with low phase stability. *Scripta Materialia*, **2009**, 60, 1012-1015	5.6	57
477	Crystallization kinetics of Zr65Ag5Cu12.5Ni10Al7.5 glassy powders produced by ball milling of pre-alloyed ingots. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 513-514, 279-285	5.3	20
476	Formation of Nanocrystalline Matrix Composite during Spray Forming of Al83La5Y5Ni5Co2. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2009**, 40, 450-461	2.3	11
475	DC- and RF-GD-OES measurements of adsorbed organic monolayers on copper. *Analytical and Bioanalytical Chemistry*, **2009**, 395, 1893-900	4.4	9
474	Effect of crystalline phases on deformation and warm formability of a bulk metallic glass composite within supercooled liquid region. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 526, 62-68	5.3	4

473	Spinodal decomposition of NiNbY metallic glasses. *Acta Materialia*, **2009**, 57, 903-908	8.4	32
472	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. *Acta Materialia*, **2009**, 57, 2029-2039	8.4	194
471	Structural evolution of CuZr metallic glasses under tension. *Acta Materialia*, **2009**, 57, 4133-4139	8.4	68
470	Powder metallurgy of Al-based metal matrix composites reinforced with Al3Mg2 intermetallic particles: Analysis and modeling of mechanical properties. *Acta Materialia*, **2009**, 57, 4529-4538	8.4	128
469	Microstructural heterogeneities governing the deformation of Cu47.5Zr47.5Al5 bulk metallic glass composites. *Acta Materialia*, **2009**, 57, 5445-5453	8.4	215
468	Deformation-induced microstructural heterogeneity in monolithic Zr44Ti11Cu9.8Ni10.2Be25 bulk metallic glass. *Physica Status Solidi - Rapid Research Letters*, **2009**, 3, 46-48	2.5	26
467	Crystallization and magnetic properties of [(Fe,Co)0.75Si0.05B0.20]94Nb6metallic glasses. *Journal Physics D: Applied Physics*, **2009**, 42, 085006	3	13
466	On the structural relaxation of bulk metallic glass under warm deformation. *Intermetallics*, **2009**, 17, 222-226	3.5	14
465	Thermomechanical characterization of Cu47.5Zr47.5Al5 bulk metallic glass within the homogeneous flow regime. *Intermetallics*, **2009**, 17, 65-71	3.5	19
464	Phase formation and thermal stability in CuZrTi(Al) metallic glasses. *Intermetallics*, **2009**, 17, 453-462	3.5	67
463	Microstructure and mechanical properties of Laves phase-reinforced FeZrCr alloys. *Intermetallics*, **2009**, 17, 532-539	3.5	29
462	Crystallization kinetics and magnetic properties of Fe66Nb4B30 bulk metallic glass. *Journal of Alloys and Compounds*, **2009**, 483, 632-637	5.7	46
461	Glass formation and mechanical properties of (Cu50Zr50)100Alx (x = 0, 4, 5, 7) bulk metallic glasses. *Journal of Alloys and Compounds*, **2009**, 483, 146-149	5.7	33
460	Consolidation and mechanical properties of ball milled Zr50Cu50 glassy ribbons. *Journal of Alloys and Compounds*, **2009**, 483, 227-230	5.7	12
459	Mechanical alloying and milling of AlMg alloys. *Journal of Alloys and Compounds*, **2009**, 483, 2-7	5.7	62
458	Correlation between Poisson ratio and MohrCoulomb coefficient in metallic glasses. *Journal of Alloys and Compounds*, **2009**, 483, 125-131	5.7	15
457	Designing bulk metallic glass and glass matrix composites in martensitic alloys. *Journal of Alloys and Compounds*, **2009**, 483, 97-101	5.7	43
456	Crystallization kinetics and consolidation of mechanically alloyed Al70Y16Ni10Co4 glassy powders. *Journal of Alloys and Compounds*, **2009**, 477, 171-177	5.7	40

455	Hydrogenation of ZrCuAlNiPd metallic glasses by electrochemical means. *Journal of Alloys and Compounds*, **2009**, 480, 321-324	5.7	9
454	Formation of nanostructured LaMg2Ni by rapid quenching and intensive milling and its hydrogen reactivity. *Journal of Alloys and Compounds*, **2009**, 481, 144-151	5.7	11
453	Short-range order of Cu2r metallic glasses. *Journal of Alloys and Compounds*, **2009**, 485, 163-169	5.7	98
452	Role of heterogeneity on deformation behavior of bulk metallic glasses. *Journal of Alloys and Compounds*, **2009**, 486, 233-236	5.7	14
451	Synthesis and morphological stability in CrO2single crystals of a half-metallic ferromagnetic compound. *Journal of Physics: Conference Series*, **2009**, 144, 012110	0.3	11
450	Effect of sample size on ductility of metallic glass. *Philosophical Magazine Letters*, **2009**, 89, 178-184	1	50
449	Work-hardening mechanisms of the Ti60Cu14Ni12Sn4Nb10 nanocomposite alloy. *Journal of Materials Research*, **2009**, 24, 3146-3153	2.5	11
448	Favorable microstructural modulation and enhancement of mechanical properties of TiFeNb ultrafine composites. *Philosophical Magazine Letters*, **2009**, 89, 623-632	1	19
447	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. *Journal of Materials Research*, **2009**, 24, 2605-2609	2.5	85
446	Nanocrystalline body-centred cubic beta-titanium alloy processed by high-pressure torsion. *International Journal of Materials Research*, **2009**, 100, 1662-1667	0.5	16
445	Effect of minor Cu addition on phase evolution and magnetic properties of {[(Fe0.5Co0.5)0.75Si0.05B0.20]0.96Nb0.04}100-xCuxalloys. *Journal of Physics: Conference Series*, **2009**, 144, 012042	0.3	16
444	Stress-induced martensitic transformation in a Ti45Zr38Al17cast rod. *Journal of Physics: Conference Series*, **2009**, 144, 012090	0.3	1
443	Spark plasma sintering of gas atomized Al87Ni8La5amorphous powder. *Journal of Physics: Conference Series*, **2009**, 144, 012079	0.3	5
442	Viscosity of the supercooled liquid in multi-component Zr-based metallic glasses. *Journal of Physics: Conference Series*, **2009**, 144, 012097	0.3	12
441	Microstructure and magnetic properties of binary Nd80Fe20with Ga additions. *Journal of Physics: Conference Series*, **2009**, 144, 012103	0.3	
440	Ti-base nanoeutectic-hexagonal structured (D019) dendrite composite. *Scripta Materialia*, **2008**, 58, 631-634	5.6	34
439	Nanocrystallization at shear bands in bulk metallic glass matrix composites. *Scripta Materialia*, **2008**, 58, 651-654	5.6	17
438	Structural behavior of CuxZr100 metallic glass (x=35 70). *Journal of Non-Crystalline Solids*, **2008**, 354, 1054-1060	3.9	164

437	Phase diagram studies on Er2PdSi3 and ErPd2Si2 intermetallic compounds. *Journal of Alloys and Compounds*, **2008**, 454, 221-227	5.7	13
436	Crystallization behavior and consolidation of ball milled Zr60Ti5Ag5Cu12.5Ni10Al7.5 glassy powders. *Journal of Alloys and Compounds*, **2008**, 456, 159-162	5.7	3
435	Thermal stability, microstructure and crystallization kinetics of melt-spun Zr-Ti-Cu-Ni metallic glass. *Journal of Alloys and Compounds*, **2008**, 460, 263-267	5.7	20
434	Preparation of bulk Nd2Fe14B/Fe3B nanocomposite magnets with high rare earth content. *Intermetallics*, **2008**, 16, 341-344	3.5	15
433	Formation of nano-scale β-phase in arc-melted micron-scale dendrite reinforced Zr73.5Nb9Cu7Ni1Al9.5 ultrafine composite during heat treatment. *Intermetallics*, **2008**, 16, 538-543	3.5	3
432	High strength ultrafine eutectic FeNbAl composites with enhanced plasticity. *Intermetallics*, **2008**, 16, 642-650	3.5	89
431	Influence of heterogeneities with different length scale on the plasticity of Fe-base ultrafine eutectic alloys. *Journal of Materials Research*, **2008**, 23, 2003-2008	2.5	25
430	Formation of a bimodal eutectic structure in TiFeSn alloys with enhanced plasticity. *Applied Physics Letters*, **2008**, 93, 141901	3.4	70
429	Grain refinement assisted strengthening of carbon nanotube reinforced copper matrix nanocomposites. *Applied Physics Letters*, **2008**, 92, 121901	3.4	94
428	Propagation of shear bands in a Cu47.5Zr47.5Al5 bulk metallic glass. *Journal of Materials Research*, **2008**, 23, 6-12	2.5	31
427	Consolidation and mechanical properties of mechanically alloyed Al-Mg powders. *Materials Research Society Symposia Proceedings*, **2008**, 1128, 54601		
426	High strength porous Ti6Al4V foams synthesized by solid state powder processing. *Journal Physics D: Applied Physics*, **2008**, 41, 105404	3	13
425	Propagation of shear bands and accommodation of shear strain in the Fe56Nb4Al40 ultrafine eutectic-dendrite composite. *Applied Physics Letters*, **2008**, 92, 091910	3.4	57
424	Magnetic hardening mechanism of PrCo5-based ribbons with C addition prepared by melt spinning. *International Journal of Materials Research*, **2008**, 99, 67-69	0.5	1
423	Influence of a bimodal eutectic structure on the plasticity of a (Ti70.5Fe29.5)91Sn9 ultrafine composite. *Applied Physics Letters*, **2008**, 93, 201906	3.4	40
422	High strength NiZr binary ultrafine eutectic-dendrite composite with large plastic deformability. *Applied Physics Letters*, **2008**, 93, 031913	3.4	34
421	Effect of local chemistry, structure and length scale of heterogeneities on the mechanical properties of a Ti45Cu40Ni7.5Zr5Sn2.5 bulk metallic glass. *Philosophical Magazine Letters*, **2008**, 88, 75-81	1	23
420	Enhancement of plasticity in Ti-rich TiZrBeCuNiTa bulk glassy alloy via introducing the structural inhomogeneity. *Journal of Materials Research*, **2008**, 23, 2984-2989	2.5	22

419	Strain distribution in Zr64.13Cu15.75Ni10.12Al10 bulk metallic glass investigated by in situ tensile tests under synchrotron radiation. *Journal of Applied Physics*, **2008**, 104, 013522	2.5	53
418	Deformation and fracture of Ti-base nanostructured composite. *International Journal of Materials Research*, **2008**, 99, 985-990	0.5	1
417	Microstructural changes induced by thermal treatment in Cu47Ti33Zr11Ni8Si1 metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2008**, 498, 335-340	5.3	6
416	The role of nonmagnetic phases in improving the magnetic properties of devitrified Pr2Fe14B-based nanocomposites. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2008**, 149, 73-76	3.1	5
415	Production and mechanical properties of metallic glass-reinforced Al-based metal matrix composites. *Journal of Materials Science*, **2008**, 43, 4518-4526	4.3	74
414	High-Temperature Deformation Behavior and Formability of a Zr-Cu-Al-Ni Bulk Metallic Glass. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2008**, 39, 1831-1837	2.3	9
413	Effect of Titanium on Microstructure and Mechanical Properties of Cu50Zr50 Ti x (2.5 x 7.5) Glass Matrix Composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2008**, 39, 1868-1873	2.3	31
412	Analysis of interface impurities in electroplated Cu layers by using GD-OES and TOF-SIMS. *Surface and Interface Analysis*, **2008**, 40, 418-422	1.5	14
411	The role of interfacial oxygen atoms in the enhanced mechanical properties of carbon-nanotube-reinforced metal matrix nanocomposites. *Small*, **2008**, 4, 1936-40	11	157
410	The role of combined addition of Ti and B in magnetic hardening of devitrified Pr2Fe14B/(Fe3B, Fe) nanocomposite magnets. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 1207-1210	1.6	2
409	Size Effect on Shear Fracture and Fragmentation of a Fe57.6Co14.4B19.2Si4.8Nb4 Bulk Metallic Glass. *Advanced Engineering Materials*, **2008**, 10, 727-730	3.5	22
408	Propagation and Deflection of Shear Bands in Metallic Glass under Circumferential Constraint. *Advanced Engineering Materials*, **2008**, 10, 1117-1121	3.5	2
407	Nanoscale mechanism and intrinsic structure related deformation of Ti-alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 493, 71-78	5.3	19
406	Phase transformations in mechanically milled and annealed single-phase Al3Mg2. *Acta Materialia*, **2008**, 56, 1136-1143	8.4	25
405	TEM investigation of Ti and Ti/Al bilayer as alternative diffusion barriers for Cu metallization for SAW device applications. *Microelectronic Engineering*, **2008**, 85, 2055-2058	2.5	7
404	Microstructural inhomogeneities introduced in a Zr-based bulk metallic glass upon low-temperature annealing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 491, 124-130	5.3	44
403	In-situ X-ray diffraction of mechanically milled Al3Mg2 powders. *Physica Status Solidi - Rapid Research Letters*, **2008**, 2, 272-274	2.5	4
402	trans-W(Cmesityl)(dmpe)2H: revealing a highly polar W-H bond and H-mobility in liquid and solid state. *Journal of the American Chemical Society*, **2007**, 129, 7195-205	16.4	13

401	Mechanical properties of bulk metallic glasses and composites. *Journal of Materials Research*, **2007**, 22, 285-301	2.5	341
400	Phase stability and consolidation of glassy/nanostructured Al85Ni9Nd4Co2 alloys. *Journal of Materials Research*, **2007**, 22, 1145-1155	2.5	17
399	Strain rate dependence of plastic flow in Ce-based bulk metallic glass during nanoindentation. *Journal of Materials Research*, **2007**, 22, 258-263	2.5	31
398	The Physical Nature of Materials Strengths. *Advanced Engineering Materials*, **2007**, 9, 143-146	3.5	9
397	Processing Routes, Microstructure and Mechanical Properties of Metallic Glasses and their Composites. *Advanced Engineering Materials*, **2007**, 9, 443-453	3.5	39
396	Martensite Formation in a Ductile Cu47.5Zr47.5Al5 Bulk Metallic Glass Composite. *Advanced Engineering Materials*, **2007**, 9, 487-491	3.5	41
395	New Fe□Cr□Mo□Ga□C composites with high compressive strength and large plasticity. *Acta Materialia*, **2007**, 55, 3513-3520	8.4	13
394	Ti-base bulk nanostructure-dendrite composites: Microstructure and deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 24-29	5.3	32
393	Devitrification of nano-scale icosahedral phase in multicomponent alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 983-986	5.3	6
392	Microstructural comparison of Zr73.5Nb9Cu7Ni1Al9.5 nanostructure-dendrite composites produced by different casting techniques. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 747-751	5.3	7
391	Formation of ductile ultrafine eutectic structure in Ti□Fe□Sn alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 737-740	5.3	29
390	Interfacial reaction during the fabrication of Ni60Nb40 metallic glass particles-reinforced Al based MMCs. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 444, 206-213	5.3	64
389	Influence of oxygen on the devitrification of Zr□Ti□Nb□Cu□Ni□Al metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 493-496	5.3	7
388	Small angle neutron scattering studies of hard magnetic bulk amorphous alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 448-451	5.3	1
387	Metallic glass formation in the Cu47Ti33Zr11Ni8Si1 alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 444, 257-264	5.3	6
386	Superconducting gaps of nanocrystalline MgB2. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 553-554	1.3	1
385	Complete suppression of metastable phase and significant enhancement of magnetic properties of B-rich PrFeB nanocomposites prepared by devitrifying amorphous ribbons. *Journal of Magnetism and Magnetic Materials*, **2007**, 308, 24-27	2.8	5
384	Mechanical properties of a two-phase amorphous Ni□Nb□Y alloy studied by nanoindentation. *Scripta Materialia*, **2007**, 56, 85-88	5.6	42

383	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. *Scripta Materialia*, **2007**, 56, 605-608	5.6	76
382	Phase separation in amorphous NiNbY alloys. *Scripta Materialia*, **2007**, 57, 29-32	5.6	26
381	High strength TiBeSn ultrafine composites with large plasticity. *Scripta Materialia*, **2007**, 57, 101-104	5.6	123
380	Deformation behavior and plastic instability of off-stoichiometric CoFe alloys. *Scripta Materialia*, **2007**, 57, 731-734	5.6	4
379	Tailoring of microstructure and mechanical properties of a Ti-based bulk metallic glass-forming alloy. *Scripta Materialia*, **2007**, 57, 1101-1104	5.6	61
378	Mechanical Properties of Bulk Metallic Glasses. *MRS Bulletin*, **2007**, 32, 635-638	3.2	298
377	Formability Evaluation of both Monolithic and Multiphase Zr-Based Bulk Metallic Glasses. *Key Engineering Materials*, **2007**, 345-346, 105-108	0.4	4
376	Structure Formation and Mechanical Behavior of Two-phase Nanostructured Materials **2007**, 565-675		4
375	Superior mechanical properties of FeCrMoVC. *Applied Physics Letters*, **2007**, 90, 261901	3.4	28
374	Deformation-induced nanoscale high-temperature phase separation in CoFe alloys at room temperature. *Applied Physics Letters*, **2007**, 90, 201908	3.4	10
373	Ductile ultrafine-grained Ti-based alloys with high yield strength. *Applied Physics Letters*, **2007**, 91, 051906	3.4	62
372	Effect of annealing on the mechanical properties and fracture mechanisms of a Zr56.2Ti13.8Nb5.0Cu6.9Ni5.6Be12.5 bulk-metallic-glass composite. *Physical Review B*, **2007**, 75,	3.3	64
371	Calorimetric study of the crystallization kinetics of Cu47Ti33Zr11Ni8Si1 metallic glass. *Physical Review B*, **2007**, 75,	3.3	22
370	Effect of high pressure during the fabrication on the thermal and mechanical properties of amorphous Ni60Nb40 particle-reinforced Al-based metal matrix composites. *Journal of Materials Research*, **2007**, 22, 1168-1173	2.5	5
369	Influence of additional elements on the development of nanoscale heterogeneities in (TiCu)-based bulk metallic glasses with enhanced ductility. *Journal of Materials Research*, **2007**, 22, 2223-2229	2.5	3
368	Powder Metallurgy of Nanostructured High Strength Materials. *Materials Science Forum*, **2007**, 534-536, 1405-1408	0.4	2
367	Influence of cooling rate on crystallization and microstructure of the monotectic Ni54Nb23Y23 alloy. *Philosophical Magazine Letters*, **2007**, 87, 839-846	1	4
366	Microstructure and mechanical properties of slowly cooled Cu47.5Zr47.5Al5. *Journal of Materials Research*, **2007**, 22, 326-333	2.5	46

365	Structural Relaxation and Crystallization of a Zr44Ti11Cu9.8Ni10.2Be25 Bulk Metallic Glass. *Materials Transactions*, **2007**, 48, 1722-1728	1.3	8
364	Phase Separation and Crystallization in Cu-Zr Metallic Glasses. *Materials Transactions*, **2007**, 48, 1639-1643	1.3	12
363	Impact of Microstructural Inhomogenities on the Ductility of Bulk Metallic Glasses. *Materials Transactions*, **2007**, 48, 1806-1811	1.3	8
362	Influence of annealing on structural relaxation, crystallization, and deformation behavior of a Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass. *Journal of Materials Research*, **2007**, 22, 1849-1858	2.5	4
361	Load relaxation behavior of a Zr41.2Ti13.8Cu12.5Ni10 Be22.5 bulk metallic glass. *Journal of Non-Crystalline Solids*, **2007**, 353, 2515-2520	3.9	12
360	Structural behavior of amorphous and liquid metallic alloys at elevated temperatures. *Journal of Non-Crystalline Solids*, **2007**, 353, 3327-3331	3.9	9
359	Mixed viscous flow and softening of bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2007**, 353, 3754-3757	3.9	3
358	On the Kaiser effect in bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2007**, 353, 3769-3771	3.9	7
357	Strengthening of multicomponent glass-forming alloys by microstructure design. *Journal of Non-Crystalline Solids*, **2007**, 353, 3742-3749	3.9	8
356	Amorphization in mechanically alloyed (Ti, Zr, Nb)(Cu, Ni)Al equiatomic alloys. *Journal of Alloys and Compounds*, **2007**, 428, 157-163	5.7	60
355	Formation of icosahedral phase in an Al93Fe3Cr2Ti2 bulk alloy. *Journal of Alloys and Compounds*, **2007**, 436, L1-L4	5.7	13
354	Microstructural investigation of a deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructured dendrite composite. *Journal of Alloys and Compounds*, **2007**, 434-435, 106-109	5.7	27
353	Studies on the crystallization kinetics of Cu-reinforced partially crystalline Cu47Ti33Zr11Ni8Si1 metallic glass composite. *Journal of Alloys and Compounds*, **2007**, 434-435, 203-206	5.7	8
352	Effect of Zr on the crystallization behavior of multi-component Zr-based metallic glasses. *Journal of Alloys and Compounds*, **2007**, 434-435, 217-220	5.7	1
351	Bulk ultra-fine eutectic structure in Ti-Be-base alloys. *Journal of Alloys and Compounds*, **2007**, 434-435, 28-31	5.7	39
350	Fe65.5Cr4Mo4Ga4P12C5B5.5 BMGs: Sample preparation, thermal stability and mechanical properties. *Journal of Alloys and Compounds*, **2007**, 434-435, 171-175	5.7	18
349	Deformation behavior of a Ti66Cu8Ni4.8Sn7.2Nb14 nanostructured composite containing ductile dendrites. *Journal of Alloys and Compounds*, **2007**, 434-435, 13-17	5.7	19
348	Conditions for quasicrystal formation from mechanically alloyed Zr-based glassy powders. *Intermetallics*, **2007**, 15, 571-582	3.5	25

347	Severe plastic deformation of a Ti-based nanocomposite alloy studied by nanoindentation. *Intermetallics*, **2007**, 15, 1038-1045	3.5	12
346	Electrode characteristics of two-phase glass-forming NiNbY alloys. *Intermetallics*, **2007**, 15, 1183-1189	3.5	10
345	Plasticity in bulk metallic glasses investigated via the strain distribution. *Physical Review B*, **2007**, 76,	3.3	44
344	Crystallization of Amorphous Material **2007**, 6-1-6-27		1
343	Fe-based bulk amorphous soft magnetic materials. *Journal of Magnetism and Magnetic Materials*, **2006**, 304, 192-196	2.8	24
342	Revisiting the Cu47Ti33Zr11Ni8Si1 glass-forming alloy. *Scripta Materialia*, **2006**, 54, 835-840	5.6	17
341	Fabrication and mechanical properties of NiNb metallic glass particle-reinforced Al-based metal matrix composite. *Scripta Materialia*, **2006**, 54, 1445-1450	5.6	84
340	Phase stability and its effect on the deformation behavior of TiNbTaCh/Cr alloys. *Scripta Materialia*, **2006**, 54, 1943-1948	5.6	80
339	Improvement of the glass-forming ability of Zr55Cu30Al10Ni5 and Cu47Ti34Zr11Ni8 alloys by electro-deoxidation of the melts. *Scripta Materialia*, **2006**, 55, 87-90	5.6	23
338	Influence of annealing on the microstructure and hardness of Ti67.79Fe28.36Sn3.85 nanocomposite rods. *Scripta Materialia*, **2006**, 55, 1087-1090	5.6	7
337	Mechanical properties and fracture behavior of the modified Ti-base bulk metallic glass-forming alloys. *Materials Letters*, **2006**, 60, 656-661	3.3	17
336	On the fragility of Cu47Ti33Zr11Ni8Si1metallic glass. *Journal Physics D: Applied Physics*, **2006**, 39, 2600-2608		12
335	Superconducting properties of nanocrystalline MgB2. *Superconductor Science and Technology*, **2006**, 19, 912-915	3.1	18
334	Influence of ball milling on quasicrystal formation in melt-spun Zr-based glassy ribbons. *Philosophical Magazine*, **2006**, 86, 367-371	1.6	
333	Effect of Sn on microstructure and mechanical properties of (TiCu)-based bulk metallic glasses. *Philosophical Magazine Letters*, **2006**, 86, 479-486	1	31
332	Enhanced thermal stability of the devitrified nanoscale icosahedral phase in novel multicomponent amorphous alloys. *Journal of Materials Research*, **2006**, 21, 823-831	2.5	6
331	Characterization of rate-dependent shear behavior of Zr-based bulk metallic glass using shear-punch testing. *Journal of Materials Research*, **2006**, 21, 153-160	2.5	17
330	Strength asymmetry of ductile dendrites reinforced Zr- and Ti-based composites. *Journal of Materials Research*, **2006**, 21, 2331-2336	2.5	39

329	Wavy cleavage fracture of bulk metallic glass. *Applied Physics Letters*, **2006**, 89, 251917	3.4	75
328	Heterogeneity of a Cu47.5Zr47.5Al5 bulk metallic glass. *Applied Physics Letters*, **2006**, 88, 051911	3.4	141
327	Glass-forming ability and fragility parameter of amorphous Fe67Co9.5Nd3Dy0.5B20. *Journal of Applied Physics*, **2006**, 100, 023501	2.5	14
326	High strength hexagonal structured dendritic phase reinforced Zr□TiNi bulk alloy with enhanced ductility. *Applied Physics Letters*, **2006**, 88, 201920	3.4	24
325	Shear fracture and fragmentation mechanisms of bulk metallic glasses. *Philosophical Magazine Letters*, **2006**, 86, 643-650	1	59
324	Nanocrystallization of gas atomized Cu47Ti33Zr11Ni8Si1 metallic glass. *Journal of Materials Research*, **2006**, 21, 597-607	2.5	13
323	Structural evolution of nano-scale icosahedral phase in novel multicomponent amorphous alloys. *Philosophical Magazine*, **2006**, 86, 281-286	1.6	5
322	High-field magnetization and coercivity of hard magnetic mold-cast Nd80Fe20. *Journal of Applied Physics*, **2006**, 99, 083904	2.5	4
321	Deformation-induced nanostructuring in a TiNbTa□h □alloy. *Applied Physics Letters*, **2006**, 89, 031906	3.4	44
320	Work hardening ability of ductile Ti45Cu40Ni7.5Zr5Sn2.5 and Cu47.5Zr47.5Al5 bulk metallic glasses. *Applied Physics Letters*, **2006**, 89, 071908	3.4	54
319	Structural short-range order of the □Ti phase in bulk TiFe(Sn) nanoeutectic composites. *Applied Physics Letters*, **2006**, 89, 261917	3.4	28
318	Thermal stability and crystallization kinetics of mechanically alloyed TiC□i-based metallic glass matrix composite. *Journal of Applied Physics*, **2006**, 100, 033514	2.5	62
317	Nanocrystal development in Cu47Ti33Zr11Ni8Si1 metallic glass powders. *Journal of Alloys and Compounds*, **2006**, 415, 162-169	5.7	9
316	Mechano-chemical synthesis and characterization of microstructure and magnetic properties of nanocrystalline Mn1□ZnxFe2O4. *Journal of Alloys and Compounds*, **2006**, 424, 13-20	5.7	45
315	Cooling rate controlled microstructure and magnetic properties of metastable Fe20Nd80 alloys. *Intermetallics*, **2006**, 14, 47-53	3.5	7
314	High strength ductile Cu-base metallic glass. *Intermetallics*, **2006**, 14, 876-881	3.5	118
313	Effect of cooling rate on microstructure and glass-forming ability of a (Ti33Zr33Hf33)70(Ni50Cu50)20Al10 alloy. *Intermetallics*, **2006**, 14, 972-977	3.5	7
312	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. *Intermetallics*, **2006**, 14, 982-986	3.5	64

311	Effect of preannealing on glass transition and crystallization of gas atomized Cu47Ti33Zr11Ni8Si1 metallic glass powders. *Intermetallics*, **2006**, 14, 1085-1090	3.5	8
310	Enhanced microhardness in nanocomposite Ti60Cu14Ni12Sn4Ta10 processed by high pressure torsion. *Intermetallics*, **2006**, 14, 871-875	3.5	11
309	Ductile Metallic Glasses in Supercooled Martensitic Alloys. *Materials Transactions*, **2006**, 47, 2606-2609	1.3	54
308	Is a particular quenched-in short-range order necessary for quasicrystal formation from glassy precursors?. *Physica Status Solidi (B): Basic Research*, **2006**, 243, R34-R36	1.3	
307	Properties of P/M processed particle reinforced metal matrix composites specified by reinforcement concentration and matrix-to-reinforcement particle size ratio. *Acta Materialia*, **2006**, 54, 157-166	8.4	203
306	Ultrafine composite microstructure in a bulk Ti alloy for high strength, strain hardening and tensile ductility. *Acta Materialia*, **2006**, 54, 1349-1357	8.4	107
305	Effect of Cu on local amorphization in bulk Ni□Ti□Zr□Si alloys during solidification. *Acta Materialia*, **2006**, 54, 3141-3150	8.4	7
304	Microscopic deformation mechanism of a Ti66.1Nb13.9Ni4.8Cu8Sn7.2 nanostructured□dendrite composite. *Acta Materialia*, **2006**, 54, 3701-3711	8.4	89
303	Limited quasicrystal formation in Zr□Ti□Cu□Ni□Al bulk metallic glasses. *Acta Materialia*, **2006**, 54, 4685-4692	8.4	27
302	Influence of environment and grain size on magnetic properties of nanocrystalline Mn□Zn ferrite. *Journal of Magnetism and Magnetic Materials*, **2006**, 306, 9-15	2.8	25
301	Fabrication of bulk amorphous Fe67Co9.5Nd3Dy0.5B20 alloy by hot extrusion of ribbon and study of the magnetic properties. *Journal of Materials Science*, **2006**, 41, 3445-3450	4.3	7
300	Annealing-induced phase transitions in a Zr-Ti-Nb-Cu-Ni-Al bulk metallic glassmatrix composite containing quasicrystalline precipitates. *International Journal of Materials Research*, **2006**, 97, 996-1000	0.5	
299	Shear and distensile fracture behaviour of Ti-based composites with ductile dendrites. *Philosophical Magazine*, **2005**, 85, 897-915	1.6	17
298	On the amorphous-to-quasicrystalline phase transformation in ball-milled and melt-spun Zr58.5Ti8.2Cu14.2Ni11.4Al7.7 glassy alloys. *Journal of Non-Crystalline Solids*, **2005**, 351, 856-862	3.9	8
297	Quasicrystalline phase formation in Zr□Ti□Nb□Cu□Ni□(Al) metallic glasses. *Journal of Alloys and Compounds*, **2005**, 387, 269-273	5.7	7
296	Crystallization kinetics of amorphous Fe67Co9.5Nd3Dy0.5B20. *Journal of Alloys and Compounds*, **2005**, 397, 104-109	5.7	42
295	Mechanical behavior of Fe65.5Cr4Mo4Ga4P12C5B5.5 bulk metallic glass. *Intermetallics*, **2005**, 13, 764-769	3.5	98
294	Thermal stability and crystallization kinetics of Cu-reinforced Cu47Ti33Zr11Ni8Si1 metallic glass composite powders synthesized by ball milling: the effect of particulate reinforcement. *Intermetallics*, **2005**, 13, 833-840	3.5	48

293	Effect of relaxation and primary nanocrystallization on the mechanical properties of Cu60Zr22Ti18 bulk metallic glass. *Intermetallics*, **2005**, 13, 1214-1219	3.5	54
292	Unified tensile fracture criterion. *Physical Review Letters*, **2005**, 94, 094301	7.4	192
291	Effect of aspect ratio on the compressive deformation and fracture behaviour of Zr-based bulk metallic glass. *Philosophical Magazine Letters*, **2005**, 85, 513-521	1	134
290	"Work-Hardenable" ductile bulk metallic glass. *Physical Review Letters*, **2005**, 94, 205501	7.4	791
289	Magnetostriction of hard magnetic Nd80Fe20 mold-cast rod. *Journal of Magnetism and Magnetic Materials*, **2005**, 285, 395-400	2.8	6
288	Influence of Nb addition on structural and magnetic properties of FeNbAlGaPCB metallic glasses. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 1461-1464	2.8	1
287	Bulk amorphous FeCrMoGaPCB: Preparation and magnetic properties. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 1480-1482	2.8	43
286	Element segregation during crystal growth processes of Ce2PdxCo1−xSi3 intermetallic compounds. *Journal of Crystal Growth*, **2005**, 275, e109-e114	1.6	3
285	Effects of oxide particle addition on superconductivity in nanocrystalline MgB2 bulk samples. *Physica C: Superconductivity and Its Applications*, **2005**, 432, 15-24	1.3	18
284	Glass formation and crystallization of Cu47Ti33Zr11Ni8X1 (X=Fe, Si, Sn, Pb) alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 392, 169-178	5.3	31
283	Corrosion behaviour of a Ti-base nanostructure-dendrite composite. *Electrochimica Acta*, **2005**, 50, 2461-2467	2.7	26
282	Formation of a metastable eutectic during the solidification of the alloy Ti60Cu14Ni12Sn4Ta10. *Acta Materialia*, **2005**, 53, 5141-5149	8.4	18
281	Behavior of multiple shear bands in Zr-based bulk metallic glass. *Materials Chemistry and Physics*, **2005**, 93, 174-177	4.4	77
280	Rotation mechanism of shear fracture induced by high plasticity in Ti-based nano-structured composites containing ductile dendrites. *Scripta Materialia*, **2005**, 52, 945-949	5.6	65
279	Nanostructured Composite Materials with Improved Deformation Behavior. *Advanced Engineering Materials*, **2005**, 7, 587-596	3.5	27
278	Elevated Temperature Deformation Behavior of Zr-Based Bulk Metallic Glasses. *Advanced Engineering Materials*, **2005**, 7, 833-841	3.5	12
277	Formation, Thermal Stability and Deformation Behavior of High-Strength Cu-Based Bulk Glassy and Nanostructured Alloys. *Advanced Engineering Materials*, **2005**, 7, 960-965	3.5	6
276	Heterogeneous distribution of shear strains in deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure-dendrite composite. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 2405-2412	1.6	13

275	Formation of micrometer sized quasicrystals in slowly cooled Zr-Ti-Nb-Cu-Ni-Al alloys. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 2436-2441	1.6	6
274	Vickers hardness and compressive properties of bulk metallic glasses and nanostructure-dendrite composites. *Journal of Materials Research*, **2005**, 20, 2632-2638	2.5	29
273	Crystallization Behaviour of Novel(Ti33Zr33Hf33)100-x(Ni50Cu50)x Alloys with X=48 to 55. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 657-660	0.2	4
272	Phase Formation in Quinary Ti-Based Nanocomposites and an Analogous Ternary System with a View to Thermodynamic Modelling. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 53-56	0.2	1
271	In Situ Formed Bulk Nanostructured Ti-Base Composites. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 31-36	0.2	1
270	Mechanically Alloyed MgB2 Superconductors: Microstructure, Tape Formation and Critical Currents. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 559-564	0.2	
269	Formation of Quasicrystals in Zr-Ti-Nb-Cu-Ni-Al Alloys by Casting or Annealing. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 511-514	0.2	
268	Magnetic transitions in Dy-microalloyed Fe-based bulk metallic glasses. *Journal Physics D: Applied Physics*, **2005**, 38, 2162-2165	3	9
267	High-strength Ti-base ultrafine eutectic with enhanced ductility. *Applied Physics Letters*, **2005**, 87, 161907	3.4	142
266	Propagation of shear bands in Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure-dendrite composite during deformation. *Applied Physics Letters*, **2005**, 86, 171909	3.4	43
265	Interfacial instability-driven amorphization–nanocrystallization in a bulk Ni45Cu5Ti33Zr16Si1 alloy during solidification. *Physical Review B*, **2005**, 72,	3.3	4
264	Enhanced critical current density in nanocrystalline mechanically alloyed MgB/sub 2/ bulk and Fe sheathed tapes. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 3192-3195	1.8	1
263	Plastic deformation and mechanical softening of Pd40Cu30Ni10P20 bulk metallic glass during nanoindentation. *Journal of Materials Research*, **2005**, 20, 2719-2725	2.5	44
262	Mechanical Characterization of Cu60Zr22Ti18 Bulk Metallic Glasses. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 669-672	0.2	
261	Toughening mechanisms of a Ti-based nanostructured composite containing ductile dendrites. *International Journal of Materials Research*, **2005**, 96, 675-680		11
260	On the Orowan stress in intermetallic ODS alloys and its superposition with grain size and solid solution hardening. *International Journal of Materials Research*, **2005**, 96, 801-806		1
259	Serrated Plastic Flow in a Zr-based Bulk Metallic Glass During Nanoindentation. *Chinese Physics Letters*, **2004**, 21, 1593-1595	1.8	19
258	Microstructure and impurity dependence in mechanically alloyed nanocrystalline MgB2superconductors. *Superconductor Science and Technology*, **2004**, 17, 1148-1153	3.1	26

257	NMR investigations of medium-range order and quasicrystal formation in Zr59Cu20Al10Ni8Ti3 metallic glass. *Physical Review B*, **2004**, 70,	3.3	9
256	Mechanism of internal friction in bulk Zr65Cu17.5Ni10Al7.5 metallic glass. *Physical Review B*, **2004**, 70,	3.3	11
255	Glass-forming ability and crystallization behavior of Ti□Cu□Ni□Sn□M (M=Zr, Mo, and Ta) metallic glasses. *Journal of Applied Physics*, **2004**, 95, 1816-1821	2.5	19
254	M□ssbauer study of FeCoSiAlGaPCB amorphous alloys. *Journal of Applied Physics*, **2004**, 95, 4151-4156	2.5	5
253	Local Order Changes in Amorphous Zr52.5Hf2Ti7.5Cu20Al10Ni8 Alloy upon Crystallization. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 20-21, 499-504	0.2	1
252	Zr-Nb-Cu-Ni-Al Glass or Nanocrystalline Matrix Composites Containing Dendritic BCC Phase Precipitates. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 20-21, 41-46	0.2	1
251	Glass Transition and Crystallization of Zr60Ti2Al10Cu20Ni8 Bulk Metallic Glass. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 20-21, 59-64	0.2	1
250	High-performance bulk Ti-Cu-Ni-Sn-Ta nanocomposites based on a dendrite-eutectic microstructure. *Journal of Materials Research*, **2004**, 19, 2557-2566	2.5	34
249	Possible influence of quenched-in nuclei on quasicrystal formation in mechanically alloyed Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 glassy powder. *Journal of Materials Research*, **2004**, 19, 2211-2215	2.5	5
248	Inverse deformation-fracture responses between dendrite and matrix in Ti-based nanostructured□dendrite composite. *Philosophical Magazine Letters*, **2004**, 84, 365-372	1	26
247	Correlation between enthalpy change and free volume reduction during structural relaxation of Zr55Cu30Al10Ni5 metallic glass. *Scripta Materialia*, **2004**, 50, 39-44	5.6	428
246	Devitrification and phase transformation of (Ti0.5Cu0.25Ni0.15Sn0.05Zr0.05)100 □xMox metallic glasses. *Scripta Materialia*, **2004**, 50, 7-11	5.6	11
245	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. *Scripta Materialia*, **2004**, 50, 1221-1225	5.6	74
244	Polarisation behaviour of the Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 alloy in different microstructural states in acid solutions. *Scripta Materialia*, **2004**, 50, 1379-1384	5.6	26
243	Synthesis and thermal stability of ball-milled and melt-quenched amorphous and nanostructured Al-Ni-Nd-Co alloys. *Journal of Materials Science*, **2004**, 39, 5295-5298	4.3	7
242	Formation of quasicrystals in ball-milled amorphous Zr-Ti-Nb-Cu-Ni-Al alloys with different Nb content. *Journal of Materials Science*, **2004**, 39, 5483-5486	4.3	5
241	Mechanically alloyed Zr□Cu□Al□Ni□ glassy powders. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 804-808	5.3	15
240	Preparation of bulk amorphous Fe□Cr□Mo□Ga□P□C□B□ alloys by copper mold casting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 399-402	5.3	23

239	Co-based Soft Magnetic Bulk Materials Prepared by Hot Powder Compaction. *European Physical Journal D*, **2004**, 54, 81-84		2
238	Magnetoresistance and Magnetoimpedance Effects in DC Joule Heated Fe72Al5Ga2P11C6B4 Amorphous Ribbons. *European Physical Journal D*, **2004**, 54, 157-160		1
237	Fatigue and fracture behavior of bulk metallic glass. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2004**, 35, 3489-3498	2.3	81
236	Effect of Sn on microstructure and mechanical properties of Ti-base dendrite/ultrafine-structured multicomponent alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2004**, 35, 3605-3612	2.3	7
235	Microstructure, mechanical properties, and fracture mechanism of As-cast (Ti0.5Cu0.25Ni0.15Sn0.05Zr0.05)100 Mo x composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2004**, 35, 1591-1601	2.3	4
234	Magnetic properties and magnetic domain structure of bulk glass forming Nd60Al10Fe20Co10 alloy. *Physica Status Solidi A*, **2004**, 201, 1563-1569		1
233	Critical current densities of superconducting MgB2 tapes prepared on the base of mechanically alloyed precursors. *Physica C: Superconductivity and Its Applications*, **2004**, 406, 121-130	1.3	26
232	Processing dependence of Young's modulus of Ti-base nanostructured alloys. *Solid State Communications*, **2004**, 129, 711-715	1.6	17
231	Structure and magnetic properties of hot pressed Co-based powder. *Journal of Magnetism and Magnetic Materials*, **2004**, 278, 373-378	2.8	19
230	Magnetic properties of bulk amorphous FeAlGaPCBSi samples prepared by ball-milling and subsequent hot pressing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 265-269	5.3	11
229	Corrosion behaviour of the Mg65Y10Cu15Ag10 bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 280-284	5.3	25
228	Electrochemical removal of oxygen for processing glass-forming alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 240-243	5.3	10
227	Microstructure and mechanical properties of slowly cooled Zr Nb Cu Ni Al composites with ductile bcc phase. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 322-326	5.3	41
226	Magnetic properties of amorphous Nd Fe Co Al alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 1083-1086	5.3	9
225	Thermal behavior and glass transition of Zr-based bulk metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 351-354	5.3	27
224	Thermal stability and crystallization behavior of Fe77C5B4(AlGa)3(PSi)11 metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 297-301	5.3	4
223	Glass forming ability of Nd60TM30Al10 (TM=Fe, Co, Ni, Cu, Mn) alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 403-406	5.3	6
222	Deformation behavior and dilatometric measurements of Nd Fe based bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2004**, 375-377, 1161-1164	5.3	9

221	Low magnetostriction crystalline ribbons prepared by melt-spinning and reactive annealing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2004**, 375-377, 1125-1128	5.3	1
220	Hard magnetic properties of bulk amorphous Nd60Fe20Co10Al10 investigated by SANSPOL. *Physica B: Condensed Matter*, **2004**, 350, E315-E318	2.8	11
219	Composition dependence of the microstructure and the mechanical properties of nano/ultrafine-structured Ti-Cu-Ni-Sn-Nb alloys. *Acta Materialia*, **2004**, 52, 3035-3046	8.4	98
218	Microstructure evolution upon devitrification and crystallization kinetics of Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 melt-spun glassy ribbon. *Journal of Applied Physics*, **2004**, 95, 3397-3403	2.5	24
217	Quasicrystal formation in mechanically alloyed Zr-Ti-Nb-Cu-Ni-Al glassy powders. *Applied Physics Letters*, **2004**, 85, 4349	3.4	10
216	Fracture-Induced Melting in Glassy and Nanostructured Composite Materials. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 20-21, 357-365	0.2	2
215	Pitting corrosion of bulk glass-forming zirconium-based alloys. *Journal of Alloys and Compounds*, **2004**, 377, 290-297	5.7	96
214	Effect of casting conditions on dendrite-amorphous/nanocrystalline Zr-Nb-Cu-Ni-Al in situ composites. *Intermetallics*, **2004**, 12, 1153-1158	3.5	54
213	Bulk glass forming and thermal stability in Fe67.0Co9.5Nd3.0Dy0.5B20 alloy. *Materials Letters*, **2004**, 58, 1844-1852	3.3	7
212	Synthesis of (Al65Cu20Fe15)100-xSix quasicrystalline alloys by mechanical alloying. *Journal of Non-Crystalline Solids*, **2004**, 334-335, 44-47	3.9	11
211	Structural behavior and glass transition of bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2004**, 345-346, 758-761	3.9	13
210	Electrochemical hydrogenation of Mg65Cu25Y10 metallic glass. *Journal of Alloys and Compounds*, **2004**, 364, 229-237	5.7	55
209	Effect of Y addition on the microstructure and magnetic properties of Nd60-xYxFe30Al10 mould-cast alloys. *Journal of Alloys and Compounds*, **2004**, 366, 248-253	5.7	7
208	Novel In Situ Nanostructure-Dendrite Composites in Zr-Base Multicomponent Alloy System. *Materials and Manufacturing Processes*, **2004**, 19, 423-437	4.1	9
207	Nanomechanical characterization of Ti-base nanostructure-dendrite composite. *International Journal of Materials Research*, **2004**, 95, 317-319		4
206	Stability of the Mg65Y10Cu15Ag10 metallic glass in neutral and weakly acidic media. *Journal of Materials Research*, **2003**, 18, 97-105	2.5	13
205	Formation of Quasicrystals in Zr-Ti-Nb-Cu-Ni-Al Melt-Spun and Ball-Milled Multicomponent Alloys. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 67-72	0.2	1
204	Nanostructured Composites in Multicomponent Alloy Systems. *Materials Transactions*, **2003**, 44, 1999-2006	1.9	34

203	A Comparative Study of MgB2 and Other Diborides. *Journal of Low Temperature Physics*, **2003**, 131, 1159-1163	1.3	5
202	Effect of Al on microstructure and magnetic properties of mould-cast Nd60Fe40−xAlx alloys. *Scripta Materialia*, **2003**, 48, 321-325	5.6	5
201	Improved mechanical behavior of Cu-Ti-based bulk metallic glass by in situ formation of nanoscale precipitates. *Scripta Materialia*, **2003**, 48, 653-658	5.6	151
200	Microstructure and mechanical properties of the Zr66.4Cu10.5Ni8.7Al8Ta6.4 metallic glass-forming alloy. *Scripta Materialia*, **2003**, 48, 1531-1536	5.6	25
199	Stability and magnetic properties of Fe-based amorphous alloys with supercooled liquid region. *Journal of Magnetism and Magnetic Materials*, **2003**, 254-255, 23-25	2.8	6
198	Low magnetostriction crystalline ribbons prepared by melt spinning and reactive annealing. *Journal of Magnetism and Magnetic Materials*, **2003**, 254-255, 26-28	2.8	2
197	Soft magnetic properties of FeCoSiAlGaPCB amorphous alloys. *Journal of Magnetism and Magnetic Materials*, **2003**, 254-255, 444-446	2.8	2
196	Effect of cooling rate on microstructure and magnetic properties of Nd60Fe30Al10 hard magnetic alloys. *Journal of Magnetism and Magnetic Materials*, **2003**, 261, 122-130	2.8	26
195	Effect of casting conditions on microstructure and mechanical properties of high-strength Zr73.5Nb9Cu7Ni1Al9.5 in situ composites. *Scripta Materialia*, **2003**, 49, 1189-1195	5.6	55
194	Nanostructured Ti-based multi-component alloys with potential for biomedical applications. *Biomaterials*, **2003**, 24, 5115-20	15.6	99
193	Effect of preparation conditions on the short-range order in Zr-based bulk glass-forming alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2003**, 343, 194-198	5.3	21
192	Phase transformation and mechanical properties of Zr-base bulk glass-forming alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 352, 179-185	5.3	18
191	Effect of microstructure on the magnetic properties of mold-cast and melt-spun Nd-Fe-Co-Al amorphous alloys. *Acta Materialia*, **2003**, 51, 229-238	8.4	34
190	Difference in compressive and tensile fracture mechanisms of Zr59Cu20Al10Ni8Ti3 bulk metallic glass. *Acta Materialia*, **2003**, 51, 1167-1179	8.4	723
189	Stability, phase transformation and deformation behavior of Ti-base metallic glass and composites. *Acta Materialia*, **2003**, 51, 1621-1631	8.4	97
188	Effect of Ta on glass formation, thermal stability and mechanical properties of a Zr52.25Cu28.5Ni4.75Al9.5Ta5 bulk metallic glass. *Acta Materialia*, **2003**, 51, 2383-2395	8.4	89
187	Co-based soft magnetic bulk amorphous ferromagnets prepared by powder consolidation. *Physica Status Solidi A*, **2003**, 199, 299-304		12
186	Novel Ti-base nanostructure-dendrite composite with enhanced plasticity. *Nature Materials*, **2003**, 2, 33-7	27	637

185	High-strength Zr-Nb-(Cu,Ni,Al) composites with enhanced plasticity. *Applied Physics Letters*, **2003**, 82, 4690-4692	3.4	106
184	Synthesis and mechanical properties of mechanically alloyed Al-Cu-Fe quasicrystalline composites. *Philosophical Magazine*, **2003**, 83, 1287-1305	1.6	33
183	TEM and XAS Characterization of Hard Magnetic Phase in Nd-Fe Alloys. *Materials Research Society Symposia Proceedings*, **2003**, 806, 143		1
182	In situ formed TiCuNiSnTa nanostructure-dendrite composite with large plasticity. *Acta Materialia*, **2003**, 51, 5223-5234	8.4	114
181	Coercivity mechanism in mold-cast Nd60FexCo30Al10 bulk amorphous alloys. *Journal of Alloys and Compounds*, **2003**, 348, 309-313	5.7	30
180	Fracture mechanisms in bulk metallic glassy materials. *Physical Review Letters*, **2003**, 91, 045505	7.4	293
179	Al-Mn-Ce quasicrystalline composites: Phase formation and mechanical properties. *Philosophical Magazine*, **2003**, 83, 807-825	1.6	22
178	Electrochemical Reactivity of Zirconium-Based Bulk Metallic Glasses. *Materials Research Society Symposia Proceedings*, **2003**, 806, 30		3
177	Synthesis and Mechanical Properties of High Strength Aluminum-Based Quasicrystalline Composites. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 245-252	0.2	4
176	Medium-Range Order and Crystallization in Zr59Cu20Al10Ni8Ti3 and Zr57Cu20Al10Ni8Ti5 Metallic Glasses Investigated by NMR. *Materials Research Society Symposia Proceedings*, **2003**, 806, 214		
175	Microstructure, thermal stability and mechanical properties of slowly cooled Zr-based composites containing dendritic bcc phase precipitates. *Materials Research Society Symposia Proceedings*, **2003**, 806, 356		
174	Nano-Mechanical Study of Mechanically Alloyed Zr-Cu-Al-Ni Glass Composite Containing Second-Phase ZrC Particles. *Materials Research Society Symposia Proceedings*, **2003**, 806, 362		
173	The Effect of Nanosized Y2O3 as a Second Phase in Mechanically Alloyed Mg-Y-Cu Glass Matrix Composites. *Journal of Metastable and Nanocrystalline Materials*, **2003**, 15-16, 37-42	0.2	2
172	What types of grain boundaries can be passed through by persistent slip bands?. *Journal of Materials Research*, **2003**, 18, 1031-1034	2.5	27
171	Influence of Al on Quasicrystal Formation in Zr-Ti-Nb-Cu-Ni-Al Metallic Glasses. *Materials Research Society Symposia Proceedings*, **2003**, 805, 200		
170	Formation of High-Strength Zr-Nb-Cu-Ni-Al Alloys by Warm Extrusion of Gas Atomized Powders. *Materials Research Society Symposia Proceedings*, **2003**, 806, 114		
169	Influence of Al on Quasicrystal Formation in Zr-Ti-Nb-Cu-Ni-Al Metallic Glasses. *Materials Research Society Symposia Proceedings*, **2003**, 806, 173		2
168	Low temperature preparation of MgB2tapes using mechanically alloyed powder. *Superconductor Science and Technology*, **2003**, 16, 281-284	3.1	31

167	Mechanical Behavior of Bulk Glassy Fe65.5Cr4Mo4Ga4P12C5B5.5. *Materials Research Society Symposia Proceedings*, **2003**, 806, 368		0
166	Microstructure of Ti-Based, Dendrite/Nanostructured-Matrix Composites. *Materials Research Society Symposia Proceedings*, **2003**, 806, 321		
165	Structural and magnetic properties of Nd60Fe30□CoxAl10 melt-spun ribbons. *Journal of Applied Physics*, **2003**, 93, 6930-6932	2.5	3
164	High density nanocrystalline MgB/sub 2/ bulk superconductors with improved pinning. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 3064-3067	1.8	12
163	Preparation of MgB2 tapes using a nanocrystalline partially reacted precursor. *Applied Physics Letters*, **2003**, 83, 1803-1805	3.4	54
162	Structural evaluation of Fe60Co10Zr8Mo5Nb2B15 metallic glass under high pressure. *Physical Review B*, **2003**, 68,	3.3	10
161	Formation of quasicrystals by partial devitrification of ball-milled amorphous Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5. *Applied Physics Letters*, **2003**, 83, 2345-2347	3.4	16
160	Tensile and fatigue fracture mechanisms of a Zr-based bulk metallic glass. *Journal of Materials Research*, **2003**, 18, 456-465	2.5	28
159	High-strength Cu□Ti-rich bulk metallic glasses and nano-composites. *International Journal of Materials Research*, **2003**, 94, 615-620		4
158	Propri□□s magn□iques et structurales d'alliages Nd-(Fe,Co)-Al bruts de coul□. *Annales De Chimie: Science Des Materiaux*, **2002**, 27, 41-47	2.1	
157	Mise en ordre locale dans les alliages amorphes massifs lors de la cristallisation. *Annales De Chimie: Science Des Materiaux*, **2002**, 27, 69-75	2.1	6
156	Thermal stability of mechanically alloyed Zr□CuAl□Ni glass composites containing ZrC particles as a second phase. *Scripta Materialia*, **2002**, 46, 31-35	5.6	24
155	Thermal stability of grain structure and defects in submicrocrystalline and nanocrystalline nickel. *Scripta Materialia*, **2002**, 46, 685-690	5.6	42
154	Corrosion behaviour of carbon steel coated with Zr-based metallic glass. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2002**, 53, 85-90	1.6	6
153	Superposition of grain size and dispersion strengthening in ODS L12□(Al,Cr)3Ti. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 329-331, 106-111	5.3	7
152	Short-range order of Zr62□TixAl10Cu20Ni8 bulk metallic glasses. *Acta Materialia*, **2002**, 50, 305-314	8.4	81
151	Anomalous thermal stability of Nd□Fe□Co□Al bulk metallic glass. *Acta Materialia*, **2002**, 50, 4357-4367	8.4	53
150	Thermal Relaxation and High Temperature Creep of Zr55Cu30Al10Ni5 Bulk Metallic Glass. *Mechanics of Time-Dependent Materials*, **2002**, 6, 193-206	1.2	33

149	Influence of Si addition and relaxation on the crystallization of Zr-Al-Ni-Cu based amorphous alloys. *Journal of Materials Science Letters*, **2002**, 21, 893-896		4
148	Phase separation in Nd60−YxFe30Al10 melt-spun ribbons. *Applied Physics Letters*, **2002**, 80, 772-774	3.4	25
147	Glass-forming ability and soft magnetic properties of FeCoSiAlGaPCB amorphous alloys. *Journal of Applied Physics*, **2002**, 92, 2073-2078	2.5	54
146	Improved superconducting properties in nanocrystalline bulk MgB2. *Applied Physics Letters*, **2002**, 80, 2725-2727	3.4	200
145	Glass-forming ability and crystallization behavior of Co62−FexNb6Zr2B30 (x=0,16) amorphous alloys with large supercooled liquid region. *Journal of Applied Physics*, **2002**, 92, 6607-6611	2.5	26
144	Magnetic properties of Nd60−YxFe30Al10 (x=0,10,30) melt-spun ribbons containing two amorphous magnetic phases. *Journal of Applied Physics*, **2002**, 91, 9267-9271	2.5	12
143	Drastic coercivity relaxation in amorphous Fe[sub 74]Al[sub 5]P[sub 11]C[sub 6]B[sub 4] and its dependence on the preparation method. *Journal of Applied Physics*, **2002**, 91, 6601	2.5	3
142	Magnetic properties of Nd−Fe−Co(Cu)−Al−B amorphous alloys prepared by nonequilibrium techniques. *Journal of Applied Physics*, **2002**, 91, 3764-3768	2.5	15
141	Enhanced plasticity in a Ti-based bulk metallic glass-forming alloy by in situ formation of a composite microstructure. *Journal of Materials Research*, **2002**, 17, 3015-3018	2.5	64
140	Viscosity of Mechanically Alloyed Amorphous Zr-Cu-Al-Ni Matrix Composites in the Supercooled Liquid Region. *Materials Science Forum*, **2002**, 386-388, 71-76	0.4	1
139	Microstructure evolution and soft magnetic properties of Fe72´xNbxAl5Ga2P11C6B4(x´0,2) metallic glasses. *Journal Physics D: Applied Physics*, **2002**, 35, 2247-2253	3	9
138	Cooling Rate Evaluation for Bulk Amorphous Alloys from Eutectic Microstructures in Casting Processes. *Materials Transactions*, **2002**, 43, 1670-1675	1.3	75
137	Structure of Zr52Ti5Cu18Ni15Al10 Bulk Metallic Glass at Elevated Temperatures. *Materials Transactions*, **2002**, 43, 1947-1951	1.3	4
136	Magnetic Properties and Phase Transformations of Bulk Amorphous Fe-Based Alloys Obtained by Different Techniques. *Materials Transactions*, **2002**, 43, 1966-1973	1.3	26
135	The Electrochemical Hydrogen Sorption Behaviour of Zr-Cu-Al-Ni Metallic Glasses. *Materials Transactions*, **2002**, 43, 1133-1137	1.3	4
134	High Strength Magnesium-based Glass Matrix Composites. *Materials Transactions*, **2002**, 43, 1979-1984	1.3	6
133	Free Volume Evolution in Bulk Metallic Glass during High Temperature Creep. *Materials Research Society Symposia Proceedings*, **2002**, 754, 1		
132	Nanocrystalline ZrN particles embedded in Zr-Fe-Cu-Al-Ni amorphous matrix.. *Materials Research Society Symposia Proceedings*, **2002**, 754, 1		

131	Surface coating on steel by pressure friction. *Materials Science and Technology*, **2002**, 18, 1382-1384	1.5	
130	ZrNbCuNiAl bulk metallic glass matrix composites containing dendritic bcc phase precipitates. *Applied Physics Letters*, **2002**, 80, 2478-2480	3.4	239
129	AlCuFe QUASICRYSTALLINE PHASE FORMATION BY MECHANICAL ALLOYING. *Materials and Manufacturing Processes*, **2002**, 17, 825-841	4.1	28
128	Coercivity mechanism in Nd60Fe30Al10 and Nd60Fe20Co10Al10 alloys. *Physical Review B*, **2002**, 66,	3.3	45
127	Structural behavior of Zr52Ti5Cu18Ni15Al10 bulk metallic glass at high temperatures. *Applied Physics Letters*, **2002**, 80, 4525-4527	3.4	16
126	Effect of surface pretreatment on the electrochemical activity of a glass-forming ZrTiAlCuNi alloy. *Journal of Alloys and Compounds*, **2002**, 346, 222-229	5.7	17
125	Structural bulk metallic glasses with different length-scale of constituent phases. *Intermetallics*, **2002**, 10, 1183-1190	3.5	84
124	Effects of electrochemical hydrogenation of Zr-based alloys with high glass-forming ability. *Intermetallics*, **2002**, 10, 1207-1213	3.5	27
123	Formation and thermal stability of cluster structure in Nd55Cu15Ni10Co5Al15 bulk amorphous alloy. *Materials Letters*, **2002**, 53, 305-315	3.3	4
122	Corrosion behaviour of Zr-based bulk glass-forming alloys containing Nb or Ti. *Materials Letters*, **2002**, 57, 173-177	3.3	68
121	High Strength Nanostructured Metastable Alloys. *Journal of Korean Powder Metallurgy Institute*, **2002**, 9, 394-408	0.1	
120	Formation of Nanocrystals by Crystallisation of Zr-Al-Cu-Ni-Fe Metallic Glasses. *Materials Transactions*, **2001**, 42, 1509-1516	1.3	
119	Formation and Properties of Zr-(Ti, Nb)-Cu-Ni-Al Bulk Metallic Glasses. *Materials Transactions*, **2001**, 42, 587-591	1.3	31
118	Bulk Metallic Glasses and Composites in Multicomponent Systems. *Materials Transactions*, **2001**, 42, 650-655	1.3	7
117	Synthesis and mechanical properties of cast quasicrystal-reinforced Al-alloys. *Acta Materialia*, **2001**, 49, 1351-1361	8.4	89
116	Nanostructured materials in multicomponent alloy systems. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 301, 1-11	5.3	33
115	Stability of the bulk glass-forming Mg65Y10Cu25 alloy in aqueous electrolytes. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 299, 125-135	5.3	67
114	Influence of iron additions on structure and properties of amorphous Zr65Al7.5Cu17.5Ni10. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2001**, 304-306, 311-314	5.3	8

113	Hot water corrosion behaviour of ZrCuAlNi bulk metallic glass. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 316, 60-65	5.3	29
112	Bulk nanostructured Zr-based multiphase alloys with high strength and good ductility. *Scripta Materialia*, **2001**, 44, 1587-1590	5.6	34
111	Phase formation and properties of mechanically alloyed amorphous Al85Y8Ni5Co2. *Scripta Materialia*, **2001**, 45, 237-244	5.6	38
110	Nanocrystalline CaO and ZrC as a Second Phase in Amorphous Zr-Cu-Al-Ni Matrix Composites. *Materials Science Forum*, **2001**, 360-362, 85-90	0.4	14
109	Kinetics of the glass-transition and crystallization process of Fe72NbxAl5Ga2P11C6B4 (x=0, 2) metallic glasses. *Applied Physics Letters*, **2001**, 78, 2145-2147	3.4	63
108	Effect of hydrogen on Zr65Cu17.5Al7.5Ni10 metallic glass. *Journal of Alloys and Compounds*, **2001**, 314, 170-176	5.7	37
107	Superconductivity of Annealed and Consolidated Amorphous YNi2B2C Powders. *Crystal Research and Technology*, **2000**, 35, 427-435	1.3	4
106	Structural and superconducting properties of mechanically alloyed YPd1xTMxBC (TM=Ni,Pt). *Physica B: Condensed Matter*, **2000**, 284-288, 1107-1108	2.8	4
105	Quasicrystalline Al-alloys with high strength and good ductility. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 294-296, 164-167	5.3	31
104	Short-range order in bulk Zr- and Hf-based amorphous alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2000**, 278, 16-21	5.3	18
103	Progress of solid-state reaction and glass formation in mechanically alloyed Zr65Al7.5Cu17.5Ni10. *Acta Materialia*, **2000**, 48, 3657-3670	8.4	28
102	Glass-forming ability of REAlTM alloys (RE=Sm, Y; TM=Fe, Co, Cu). *Acta Materialia*, **2000**, 48, 3823-3831	8.4	44
101	Corrosion behaviour of Mg65Y10Cu25 metallic glass. *Scripta Materialia*, **2000**, 43, 279-283	5.6	42
100	Newtonian flow of Zr55Cu30Al10Ni5 bulk metallic glassy alloys. *Scripta Materialia*, **2000**, 43, 459-464	5.6	79
99	Effect of annealing in hydrogen on composition, structure and magnetic properties of rapidly quenched FeCoSiTMB ribbons. *Journal of Magnetism and Magnetic Materials*, **2000**, 215-216, 434-436	2.8	2
98	The synthesis and properties of Zr-based metallic glasses and glass-matrix composites. *Jom*, **2000**, 52, 43-47	2.1	8
97	Relation between short-range order and crystallization behavior in Zr-based amorphous alloys. *Applied Physics Letters*, **2000**, 77, 1970-1972	3.4	124
96	Equation of state of Zr41Ti14Cu12.5Ni10Be22.5 bulk metallic glass. *Physical Review B*, **2000**, 61, 3166-3169	3.3	57

95	As-cast quasicrystalline phase in a Zr-based multicomponent bulk alloy. *Applied Physics Letters*, **2000**, 77, 3176-3178	3.4	58
94	Atomic ordering and magnetic properties in Nd57Fe20B8Co5Al10 solids. *Journal of Applied Physics*, **2000**, 88, 3565-3569	2.5	52
93	Formation of ultrafine nanostructure by crystallization of Zr52Al6Cu14Ni8Fe20 metallic glass. *Applied Physics Letters*, **2000**, 77, 1153-1154	3.4	11
92	Pressure-Volume Relation of Zr-Ti-Cu-Ni-Be Bulk Metallic Glass. *Journal of Metastable and Nanocrystalline Materials*, **2000**, 8, 146-150	0.2	
91	Thermal Stability and Viscosity of Mg-Based Glasses and Composites. *Journal of Metastable and Nanocrystalline Materials*, **2000**, 8, 129-134	0.2	2
90	Variation of Superconductivity in Mechanically Alloyed Pseudo-Quaternary Y-Pt/Pd-B-C. *Journal of Metastable and Nanocrystalline Materials*, **2000**, 8, 924-932	0.2	1
89	Effect of Co and Cu Alloying on Nd-Fe-Al Based Bulk Amorphous Alloys. *Materials Science Forum*, **2000**, 343-346, 97-102	0.4	7
88	Effect of Annealing in Hydrogen on Composition, Structure and Magnetic Properties of Rapidly Quenched Fe-Co-Si-TM-B Ribbons. *Materials Science Forum*, **2000**, 343-346, 835-840	0.4	1
87	Glass-forming Ability and Magnetic Properties of Nd70Fe20Al10Cox Alloys. *Journal of Materials Research*, **2000**, 15, 1556-1563	2.5	52
86	Corrosion Behaviour of Bulk Amorphous and Crystalline Zr55Al10Cu30Ni5 Alloys at Ambient and Elevated Temperature. *Materials Science Forum*, **2000**, 343-346, 213-220	0.4	3
85	Formation of Nanocrystals in Zr-Al-Cu-Ni Alloys. *Journal of Metastable and Nanocrystalline Materials* , **2000**, 8, 185-190	0.2	2
84	Hydrogenation and its effect on the crystallisation behaviour of Zr55Cu30Al10Ni5 metallic glass. *Journal of Alloys and Compounds*, **2000**, 298, 146-152	5.7	48
83	Pressure effect on crystallization of metallic glass Fe72P11C6Al5B4Ga2 alloy with wide supercooled liquid region. *Journal of Applied Physics*, **2000**, 87, 2664-2666	2.5	55
82	Crystallization in Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass under pressure. *Applied Physics Letters*, **2000**, 77, 3553-3555	3.4	66
81	Glass Transition, Viscosity of the Supercooled Liquid and Crystallization Behaviour of Zr–Al–Cu–Ni–Fe Metallic Glasses. *Materials Transactions, JIM*, **2000**, 41, 1415-1422		10
80	Thermal and magnetic properties of bulk glass forming Fe-Al-P-C-B-(Ga) alloys. *Journal Physics D: Applied Physics*, **1999**, 32, 855-861	3	23
79	Synthesis and Properties of Mechanically Alloyed and Ball Milled High Strength Amorphous or Quasicrystalline Al-Alloys. *Materials Science Forum*, **1999**, 312-314, 49-54	0.4	8
78	Mechanically Attrited Superconducting Y-TM-Borocarbides (TM=Ni, Pd). *Materials Science Forum*, **1999**, 312-314, 61-66	0.4	

77	Metastable Phase Formation and Microstructure Evolution from Undercooled Eutectic Melts. *Materials Science Forum*, **1999**, 312-314, 275-280	0.4	3
76	Synthesis and Properties of Mechanically Alloyed and Ball Milled High Strength Amorphous or Quasicrystalline Al-Alloys. *Journal of Metastable and Nanocrystalline Materials*, **1999**, 2-6, 49-54	0.2	5
75	Deformation-induced microstructural changes in Fe40Ni40P14B6 metallic glass. *Journal of Materials Research*, **1999**, 14, 3765-3774	2.5	28
74	High-strength materials produced by precipitation of icosahedral quasicrystals in bulk Zr□TiCuNiAl amorphous alloys. *Applied Physics Letters*, **1999**, 74, 664-666	3.4	194
73	Investigations on the electrochemical behaviour of Zr-based bulk metallic glasses. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1999**, 267, 294-300	5.3	104
72	Structural and magnetic properties of mechanically alloyed (FexCu1 □x)93Zr7 (x = 0.5, 0.7) solid solutions. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 214-215	2.8	8
71	In-situ explosive formation of NbSi2-Based nanocomposites by mechanical alloying. *Scripta Materialia*, **1999**, 41, 1147-1151	5.6	30
70	Short-Range Order of Amorphous (Zr65Al7.5Cu17.5Ni10)100□Fex Alloys. *Physica Status Solidi A*, **1999**, 175, 449-456		3
69	Mechanically alloyed Zr55Al10Cu30Ni5 metallic glass composites containing nanocrystalline W particles. *Journal of Applied Physics*, **1999**, 85, 7112-7119	2.5	87
68	High strength AL-alloys with nanoquasicrystalline phase as main component. *Scripta Materialia*, **1999**, 12, 107-110		24
67	Properties of Mg-Y-Cu glasses with nanocrystalline particles. *Scripta Materialia*, **1999**, 12, 127-130		10
66	Nanophase composites in easy glass forming systems. *Scripta Materialia*, **1999**, 12, 439-442		9
65	Nanoparticles in an amorphous Zr55Al10Cu30Ni5-matrix □The formation of composites by mechanical alloying. *Scripta Materialia*, **1999**, 12, 443-446		10
64	Deformation mechanism of amorphous and partially crystallized alloys. *Scripta Materialia*, **1999**, 12, 503-506		37
63	Nanocrystal formation, amorphization and superconductivity in YNi2B2C. *Journal of Alloys and Compounds*, **1999**, 285, 27-36	5.7	4
62	Mechanical Alloying of Bulk Metallic Glass Forming Systems. *Materials Science Forum*, **1999**, 312-314, 3-12	0.4	22
61	Crystallization behaviour and nanocrystalline microstructure evolution of a Zr57Cu20A110Ni8Ti5 bulk amorphous alloy. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1999**, 79, 1095-1108		38
60	Oxide dispersion strengthened mechanically alloyed amorphous Zr-Al-Cu-Ni composites. *Scripta Materialia*, **1998**, 38, 595-602	5.6	69

59	Investigations of the solid state reaction process in mechanically alloyed Zr-Al-Cu-Ni bulk metallic glasses by analytical transmission electron microscopy. *Freseniusf Journal of Analytical Chemistry*, **1998**, 361, 740-742		
58	Effect of oxygen on phase formation and thermal stability of slowly cooled Zr65Al7.5Cu17.5Ni10 metallic glass. *Acta Materialia*, **1998**, 46, 5475-5482	8.4	265
57	Effect of crystalline precipitations on the mechanical behavior of bulk glass forming Zr-based alloys. *Scripta Materialia*, **1998**, 10, 805-817		172
56	Structural and magnetic properties of amorphous alloys. *Journal of Physics Condensed Matter*, **1998**, 10, L575-L581	1.8	6
55	Mechanically Alloyed and Rapidly Quenched Fe-Zr-B-Cu: Mssbauer Investigation. *Materials Science Forum*, **1998**, 269-272, 425-430	0.4	3
54	Thermal Stability and Consolidation Behavior of Mechanically Alloyed Zr-Al-Cu-Ni Powders with Varying Oxygen, Iron and Tungsten Content. *Materials Science Forum*, **1998**, 269-272, 767-772	0.4	7
53	Characteristics of Slowly Cooled Zr-Al-Cu-Ni Bulk Samples with Different Oxygen Content. *Materials Science Forum*, **1998**, 269-272, 797-806	0.4	17
52	Formation and Stability of Bulk Metallic Glass Forming Mg-Y-Cu Alloys Produced by Mechanical Alloying and Rapid Quenching. *Materials Science Forum*, **1998**, 269-272, 761-766	0.4	11
51	Nanostructural Transformation and Mechanical Property Variation of Zr-Ti-Al-Cu-Ni Bulk Amorphous Alloys. *Materials Science Forum*, **1998**, 269-272, 785-790	0.4	1
50	Influence of oxygen on the viscosity of ZrAlCuNi metallic glasses in the undercooled liquid region. *Journal of Applied Physics*, **1998**, 83, 3438-3440	2.5	33
49	Effect of cooling rate on the precipitation of quasicrystals from the ZrCuAlNiTi amorphous alloy. *Applied Physics Letters*, **1998**, 73, 2110-2112	3.4	103
48	Crystallization Behavior and Phase Formation in Zr–Al–Cu–Ni Metallic Glass Containing Oxygen. *Materials Transactions, JIM*, **1998**, 39, 623-632		319
47	Synthesis and properties of mechanically alloyed Y-Ni-B-C. *Materials Letters*, **1997**, 31, 329-333	3.3	3
46	Mechanical alloying of highly processable glassy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 364-373	5.3	63
45	Progress of solid-state reaction during mechanical alloying of Zr-Al-Cu-Ni bulk metallic glass-forming alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 383-387	5.3	7
44	Synthesis of multicomponent Fe-based amorphous alloys with significant supercooled liquid region by mechanical alloying. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 425-428	5.3	19
43	Relaxation and crystallization of amorphous Zr65Al7.5Cu17.5Ni10. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 468-473	5.3	30
42	Nanostructure formation and properties of ball-milled NiAl intermetallic compound. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 239-240, 619-624	5.3	29

41	Formation of ODS L12[Al,Cr)3Ti by mechanical alloying. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 239-240, 652-657	5.3	18
40	Nanostructure formation and steady-state grain size of ball-milled iron powders. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 541-545	5.3	46
39	Structural and magnetic properties of nanocrystalline (Fe-Cu)93Zr7 alloys prepared by mechanical alloying. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1997**, 226-228, 577-580	5.3	2
38	Electrochemical investigations on the bulk glass forming Zr55Cu30Al10Ni5 alloy. *Materials and Corrosion - Werkstoffe Und Korrosion*, **1997**, 48, 293-297	1.6	47
37	Remanence enhancement in mechanically alloyed two-phase Nd-Fe-B magnetic material. *Materials Letters*, **1996**, 26, 167-170	3.3	24
36	Formation of amorphous alloys with significant supercooled liquid region by mechanical alloying. *Journal of Non-Crystalline Solids*, **1996**, 205-207, 500-503	3.9	4
35	Mg-based amorphous alloys with extended supercooled liquid region produced by mechanical alloying. *Journal of Non-Crystalline Solids*, **1996**, 205-207, 514-517	3.9	14
34	Mechanically alloyed Fe-Zr-(B,Cu) alloys: effect of composition and heat treatment on the microstructure and the magnetic properties. *Journal of Non-Crystalline Solids*, **1996**, 205-207, 620-623	3.9	12
33	Incipient chemical instabilities of nanophase Fe-Cu alloys prepared by mechanical alloying. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1996**, 27, 2934-2946	2.3	13
32	High remanence Nd?Fe?B?X (X = Cu, Si, Nb3 Cu, Zr) powders by mechanical alloying. *Journal of Magnetism and Magnetic Materials*, **1996**, 157-158, 61-62	2.8	12
31	Structural Properties and Compositional Dependence of Grain Size in Heavily Mechanically Deformed Nanophase NiAl. *Materials Science Forum*, **1996**, 225-227, 377-382	0.4	10
30	Bulk Metallic Glasses with Significant Supercooled Liquid Region Prepared by Mechanical Alloying. *Materials Science Forum*, **1996**, 225-227, 113-118	0.4	6
29	Solid State Processing of Bulk Metallic Glass Forming Alloys. *Materials Science Forum*, **1996**, 235-238, 23-28	0.4	16
28	The Influence of Alloy Composition and Thermal Treatment on Structural and Magnetic Properties of Mechanically Alloyed Fe-Transition Metal-Based Alloys. *Materials Science Forum*, **1996**, 225-227, 695-700	0.4	5
27	Domain studies on mechanically alloyed Fe-Zr-B-Cu-nanocrystalline powder. *IEEE Transactions on Magnetics*, **1996**, 32, 4383-4385	2	11
26	Formation of amorphous Zr-Al-Cu-Ni with a large supercooled liquid region by mechanical alloying. *Journal of Applied Physics*, **1995**, 77, 5446-5448	2.5	48
25	Relationships governing the grain size of nanocrystalline metals and alloys. *Scripta Materialia*, **1995**, 6, 413-416		34
24	Mechanically alloyed Zr-Ti-Cu-Ni amorphous alloys with significant supercooled liquid region. *Materials Letters*, **1995**, 23, 299-304	3.3	18

23	Thermal stability and grain growth behavior of mechanically alloyed nanocrystalline Fe-Cu alloys. *Journal of Applied Physics*, **1993**, 73, 131-141	2.5	206
22	Effects of chemistry on the grain size refinement in nanocrystalline Ru and Ru?C powders prepared by mechanical attrition. *Scripta Materialia*, **1993**, 2, 433-439		5
21	Melting behavior of nanocrystalline aluminum powders. *Scripta Materialia*, **1993**, 2, 407-413		137
20	Mechanically driven alloying and grain size changes in nanocrystalline Fe-Cu powders. *Journal of Applied Physics*, **1993**, 73, 2794-2802	2.5	259
19	Reversible grain size changes in ball-milled nanocrystalline Fe□u alloys. *Journal of Materials Research*, **1992**, 7, 1980-1983	2.5	101
18	Structural and thermodynamic properties of nanocrystalline fcc metals prepared by mechanical attrition. *Journal of Materials Research*, **1992**, 7, 1751-1761	2.5	410
17	Influence of microstructure and composition on the grain size of nanocrystalline Fe-Cu alloys. *Scripta Metallurgica Et Materialia*, **1992**, 27, 1105-1110		30
16	Quasicrystal formation and phase transitions by ball milling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1991**, 133, 393-397	5.3	39
15	Comparison of solid-state amorphization by mechanical alloying and interdiffusion in Ni?Zr. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1991**, 134, 1389-1393	5.3	12
14	Amorphization reaction during mechanical alloying: influence of the milling conditions. *Journal of Materials Science*, **1991**, 26, 441-446	4.3	35
13	Interdiffusion reaction, phase sequence, and glass formation in Ni-Zr composites. *Journal of Materials Research*, **1991**, 6, 1874-1885	2.5	18
12	Comparison of glass formation by mechanical alloying and solid-state interdiffusion in Ni?Zr composites. *Journal of Non-Crystalline Solids*, **1991**, 130, 273-286	3.9	16
11	Synthesis of Ni?Ti and Fe?Ti alloys by mechanical alloying: formation of amorphous phases and extended solid solutions. *Journal of Non-Crystalline Solids*, **1991**, 127, 90-96	3.9	52
10	Formation of quasicrystalline and amorphous phases in mechanically alloyed Al-based and Ti?Ni-based alloys. *Acta Metallurgica Et Materialia*, **1991**, 39, 1497-1506		89
9	Glass formation and extended solubilities in mechanically alloyed cobalt-transition metal alloys. *Journal of the Less Common Metals*, **1990**, 166, 293-302		48
8	Compositional dependence of quasicrystal formation in mechanically alloyed Al?Cu?Mn. *Journal of the Less Common Metals*, **1990**, 167, 143-152		19
7	Formation of quasicrystals by mechanical alloying. *Applied Physics Letters*, **1989**, 55, 117-119	3.4	145
6	Glass-forming ranges in transition metal-Zr alloys prepared by mechanical alloying. *Journal of the Less Common Metals*, **1988**, 145, 283-291		40

5	Glass-forming ranges of mechanically alloyed powders. *Journal of the Less Common Metals*, **1988**, 140, 93-98		27
4	Glass-forming range in mechanically alloyed Ni-Zr and the influence of the milling intensity. *Journal of Applied Physics*, **1988**, 64, 3224-3228	2.5	239
3	Selective Laser Melting of Al-7Si-0.5 Mg-0.5Cu: Effect of Heat Treatment on Microstructure Evolution, Mechanical Properties and Wear Resistance. *Acta Metallurgica Sinica (English Letters)*,1	2.5	1
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