

Juergen H Eckert

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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.. <i>Nature Communications</i> , 2022 , 13, 127	17.4	3
1245	Multilayer crystal-amorphous Pd-based nanosheets on Si/SiO ₂ with interface-controlled ion transport for efficient hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 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. <i>Journal of Non-Crystalline Solids</i> , 2022 , 576, 121266	3.9	0
1243	Thermoplasticity of metallic glasses: Processing and applications. <i>Progress in Materials Science</i> , 2022 , 127, 100941	42.2	0
1242	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. <i>Corrosion Science</i> , 2021 , 193, 109880	6.8	0
1241	Effect of cold rolling on the pressure coefficient of glass transition temperature in bulk metallic glasses. <i>Thermochimica Acta</i> , 2021 , 706, 179071	2.9	1
1240	Synthesis, thermodynamic analysis and magnetic study of novel ball- milled Co ₅₀ Fe ₂₅ Ta ₅ Si ₅ C ₁₅ glassy powders with high thermal stability. <i>Journal of Alloys and Compounds</i> , 2021 , 894, 162509	5.7	0
1239	Medium-range order dictates local hardness in bulk metallic glasses. <i>Materials Today</i> , 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. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2100093	1.3	0
1237	Origin of Electrocatalytic Activity in Amorphous Nickel-Metalloid Electrodeposits. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23689-23701	9.5	1
1236	Molecular Dynamics Study of the Nanoindentation Behavior of CuZr/Cu Amorphous/Crystalline Nanolaminate Composites. <i>Materials</i> , 2021 , 14,	3.5	2
1235	Additive Manufacturing of Aluminum-Based Metal Matrix Composites—A Review. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100053	3.5	5
1234	Mechanochemical Synthesis of Rosin-Modified Montmorillonite: A Breakthrough Approach to the Next Generation of OMMT/Rubber Nanocomposites. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
1233	Cryo-Casting for Controlled Decomposition of CuZrAl Bulk Metallic Glass into Nanomaterials: Implications for Design Optimization. <i>ACS Applied Nano Materials</i> , 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. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159436	5.7	9
1231	Structural homology of the strength for metallic glasses. <i>Journal of Materials Science and Technology</i> , 2021 , 81, 123-130	9.1	1
1230	Composite of medium entropy alloys synthesized using spark plasma sintering. <i>Scripta Materialia</i> , 2021 , 191, 46-51	5.6	6

1229	Deformation-Mode-Sensitive Behavior of CuZr-Based Bulk Metallic Glasses Under Dynamic Loading. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 8-13	2.3	0
1228	Microstructure refinement and enhanced tensile properties of Al-11Mg2Si alloy modified by erbium. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158421	5.7	5
1227	Thermomechanical and structural characterization of polybutadiene/poly(ethylene oxide)/ CNT stretchable electrospun fibrous membranes. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 248-261	3.2	2
1226	X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. <i>ACS Nano</i> , 2021 , 15, 2386-2398	16.7	2
1225	Electrospun polyacrylonitrile/2-(acryloyloxy)ethyl ferrocenecarboxylate polymer blend nanofibers. <i>Molecular Systems Design and Engineering</i> , 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. <i>Molecular Systems Design and Engineering</i> , 2021 , 6, 214-233	4.6	3
1223	In situ TEM observation of phase transformation in bulk metallic glass composites. <i>Materials Research Letters</i> , 2021 , 9, 189-194	7.4	4
1222	Nanoporous PdCuBi Amorphous Thin Films for Electrochemical Hydrogen Storage and Sensing. <i>ACS Applied Energy Materials</i> , 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. <i>Journal of the Electrochemical Society</i> , 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. <i>Journal of Alloys and Compounds</i> , 2021 , 872, 159620	5.7	4
1219	Morphology of cracks and shear bands in polymer-supported thin film metallic glasses. <i>Materials Today Communications</i> , 2021 , 28, 102547	2.5	
1218	Enhancement of Interfacial Hydrogen Interactions with Nanoporous Gold-Containing Metallic Glass. <i>ACS Applied Materials & Interfaces</i> , 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. <i>Vacuum</i> , 2021 , 191, 110405	3.7	2
1216	Direct observation of nanocrystal-induced enhancement of tensile ductility in a metallic glass composite. <i>Materials and Design</i> , 2021 , 209, 109970	8.1	1
1215	High-entropy eutectic composites with high strength and low Young's modulus. <i>Material Design and Processing Communications</i> , 2020 , 3, e211	0.9	
1214	Effect of tempering and deep cryogenic treatment on microstructure and mechanical properties of CrMoVNi steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 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. <i>Journal of Alloys and Compounds</i> , 2020 , 841, 155781	5.7	9
1212	New Mg-Ca-Zn amorphous alloys: Biocompatibility, wettability and mechanical properties. <i>Materialia</i> , 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. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 108, 103839	4.1	11
1210	Phase transformation, thermal behavior and magnetic study of new Co _{80-x} Ta _x Si ₅ C ₁₅ (x = 0, 5) glassy/nanocrystalline alloys prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 155913	5.7	6
1209	Strain perceptibility of elements on the diffusion in Zr-based amorphous alloys. <i>Scientific Reports</i> , 2020 , 10, 4575	4.9	1
1208	Anisotropic elastic and thermodynamic properties of the HCP-Titanium and the FCC-Titanium structure under different pressures. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 3488-3501	5.5	2
1207	Soft Ferromagnetic Bulk Metallic Glass with Potential Self-Healing Ability. <i>Materials</i> , 2020 , 13,	3.5	1
1206	Oligoether Ester-Functionalized ProDOT Copolymers on Si/Monolayer Graphene as Capacitive Thin Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 070543	3.9	6
1205	Thermal expansion behavior of Al ₃ Si alloys fabricated using selective laser melting. <i>Progress in Additive Manufacturing</i> , 2020 , 5, 247-257	5	5
1204	Hydrogen storage performance of the multi-principal-component CoFeMnTiVZr alloy in electrochemical and gas-solid reactions.. <i>RSC Advances</i> , 2020 , 10, 24613-24623	3.7	14
1203	Selective laser melting of nanostructured Al-Y-Ni-Co alloy. <i>Manufacturing Letters</i> , 2020 , 25, 21-25	4.5	4
1202	Structural and Phase Evolution upon Annealing of Fe ₇₆ Si ₉ B ₁₀ P ₅ Mox (x = 0, 1, 2 and 3) Alloys. <i>Metals</i> , 2020 , 10, 881	2.3	2
1201	Outstanding strengthening behavior and dynamic mechanical properties of in-situ Al ₃ Al ₃ Ni composites by Cu addition. <i>Composites Part B: Engineering</i> , 2020 , 189, 107891	10	21
1200	Transformation-enhanced strength and ductility in a FeCoCrNiMn dual phase high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 780, 139182	5.3	16
1199	Chemical bonding effects on the brittle-to-ductile transition in metallic glasses. <i>Acta Materialia</i> , 2020 , 188, 273-281	8.4	17
1198	Non-isothermal crystallization kinetics of a Fe ₃ Cr ₃ Mo ₃ B ₃ amorphous powder. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153783	5.7	9
1197	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of CuZrAl Metallic Glass Using Joule Heating. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
1196	Stability, elasticity and electronic structures of Co-Zr binary intermetallic compounds. <i>Philosophical Magazine</i> , 2020 , 100, 874-893	1.6	1
1195	Development and characterization of new Co ₈₀ Fe ₁₀ B ₁₀ bulk metallic glass with high thermal stability and superior soft magnetic performance. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153890	5.7	6
1194	Achieving work hardening by forming boundaries on the nanoscale in a Ti-based metallic glass matrix composite. <i>Journal of Materials Science and Technology</i> , 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. <i>Chemistry - A European Journal</i> , 2020 , 26, 8244-8253	4.8	8
1192	Aluminum matrix composites reinforced with metallic glass particles with core-shell structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138630	5.3	15
1191	Evolution of Bimodal Microstructure and High-Temperature Wear Resistance of Al-Cu-Ni Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 109-115	2.3	6
1190	Atomic-scale origin of shear band multiplication in heterogeneous metallic glasses. <i>Scripta Materialia</i> , 2020 , 178, 57-61	5.6	46
1189	Microstructures, Mechanical Properties, and Corrosion Behaviors of Refractory High-Entropy ReTaWNbMo Alloys. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 399-409	1.6	6
1188	Electrocatalytic Behavior of Hydrogenated Pd-Metallic Glass Nanofilms: Butler-Volmer, Tafel, and Impedance Analyses. <i>Electrocatalysis</i> , 2020 , 11, 94-109	2.7	17
1187	Synthesis and characterization of novel mesoporous strontium-modified bioactive glass nanospheres for bone tissue engineering applications. <i>Microporous and Mesoporous Materials</i> , 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. <i>Journal of Materials Science and Technology</i> , 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. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1200-1209	5.5	6
1184	Novel BCC Type Ti-Fe-Cu Alloys Containing Sn with Pertinent Mechanical Properties. <i>Metals</i> , 2020 , 10, 34	2.3	1
1183	Effect of mechanically induced structural rejuvenation on the deformation behaviour of CuZr based bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138848	5.3	8
1182	Selective Laser Melting of Aluminum and Its Alloys. <i>Materials</i> , 2020 , 13,	3.5	24
1181	Surface-governed electrochemical hydrogenation in FeNi-based metallic glass. <i>Journal of Power Sources</i> , 2020 , 475, 228700	8.9	4
1180	Fabrication and characterization of novel soft magnetic [(Fe _{0.7} Co _{0.3}) _{71.2} B ₂₄ Y _{4.8}] ₉₆ Nb ₄ /V ₂ O ₅ bulk metallic glassy/composite cores with excellent magnetic permeability and low core losses. <i>Journal of Alloys and Compounds</i> , 2020 , 846, 156427	5.7	3
1179	Mg-Based Metallic Glass-Polymer Composites: Investigation of Structure, Thermal Properties, and Biocompatibility. <i>Metals</i> , 2020 , 10, 867	2.3	5
1178	Effective electrocatalytic methanol oxidation of Pd-based metallic glass nanofilms. <i>Nanoscale</i> , 2020 , 12, 22586-22595	7.7	10
1177	Selective laser melting of high-strength, low-modulus Ti ₅₅ Nb ₂₀ Zr ₁₀ Ta alloy. <i>Materialia</i> , 2020 , 14, 100941	3.2	19
1176	Cluster-Related Phenomena in the Properties and Transformations of Transition Metal-Based Glassy Alloys. <i>Metals</i> , 2020 , 10, 1025	2.3	1

1175	Surface Functionalization of Biomedical Ti-6Al-7Nb Alloy by Liquid Metal Dealloying. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
1174	Signature of local stress states in the deformation behavior of metallic glasses. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	13
1173	A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 2001-2034	3.3	48
1172	Microstructural characterization of medium entropy alloy thin films. <i>Scripta Materialia</i> , 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. <i>Journal of Materials Science and Technology</i> , 2020 , 36, 18-26	9.1	27
1170	Evaluation of hydrogen storage performance of ZrTiVNiCrFe in electrochemical and gas-solid reactions. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 5347-5355	6.7	22
1169	Study of thermal and structural characteristics of mechanically milled nanostructured Al-Cu-Fe quasicrystals. <i>Materials Chemistry and Physics</i> , 2020 , 251, 123071	4.4	2
1168	Premature failure of an additively manufactured material. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	44
1167	Selective laser melting of 316L stainless steel: Influence of TiB ₂ addition on microstructure and mechanical properties. <i>Materials Today Communications</i> , 2019 , 21, 100615	2.5	19
1166	Optimizing mechanical properties of FeCoNiSiB high entropy alloy by inducing hypoeutectic to quasi-duplex microstructural transition. <i>Scientific Reports</i> , 2019 , 9, 360	4.9	9
1165	Effect of heat treatment on microstructure and mechanical properties of 316L steel synthesized by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 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. <i>Advanced Powder Technology</i> , 2019 , 30, 2032-2041	4.6	12
1163	Exceptional fracture resistance of ultrathin metallic glass films due to an intrinsic size effect. <i>Scientific Reports</i> , 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. <i>Scripta Materialia</i> , 2019 , 170, 156-160	5.6	4
1161	Influence of annealing on microstructure and mechanical properties of ultrafine-grained Ti45Nb. <i>Materials and Design</i> , 2019 , 179, 107864	8.1	11
1160	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in CoCrFeNiNb high-entropy composites. <i>Journal of Materials Research</i> , 2019 , 34, 2672-2682	2.5	4
1159	Mechanochemical synthesis and hydrogenation behavior of (TiFe) _{100-x} Ni _x alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 796, 42-46	5.7	9
1158	Structure?Property Relationships in Shape Memory Metallic Glass Composites. <i>Materials</i> , 2019 , 12,	3.5	13

1157	Tuning the glass forming ability and mechanical properties of Ti-based bulk metallic glasses by Ga additions. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 552-563	5.7	10
1156	Ultrahigh hydrogen-sorbing palladium metallic-glass nanostructures. <i>Materials Horizons</i> , 2019 , 6, 1481-1487	4.4	11
1155	Controlling the distribution of structural heterogeneities in severely deformed metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 752, 36-42	5.3	21
1154	High-resolution transmission electron microscopy investigation of diffusion in metallic glass multilayer films. <i>Materials Today Advances</i> , 2019 , 1, 100004	7.4	9
1153	Stability of the B2 CuZr phase in Cu-Zr-Al-Sc bulk metallic glass matrix composites. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 657-665	5.7	7
1152	Fast and direct determination of fragility in metallic glasses using chip calorimetry. <i>Heliyon</i> , 2019 , 5, e01334	3.4	5
1151	Deformation behavior of designed dual-phase CuZr metallic glasses. <i>Materials and Design</i> , 2019 , 168, 107662	8.1	14
1150	Structure Modulation and Nanocrystallization of Metallic Glasses: How to Tune Mechanical Properties. <i>Structural Integrity</i> , 2019 , 352-353	0.2	
1149	Nanodiffraction Strain Mapping of Metallic Glasses During In Situ Deformation. <i>Structural Integrity</i> , 2019 , 356-357	0.2	
1148	Synthesis of new glassy Mg-Ca-Zn alloys with exceptionally low Young's Modulus: Exploring near eutectic compositions. <i>Scripta Materialia</i> , 2019 , 173, 139-143	5.6	5
1147	Influence of directional microstructure on mechanical properties in Al-based ultrafine bimodal lamellar structured alloy. <i>Material Design and Processing Communications</i> , 2019 , 1, e52	0.9	2
1146	Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting. <i>Journal of Manufacturing Processes</i> , 2019 , 45, 255-261	5	46
1145	Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 939-945	5.7	2
1144	Microstructure and Mechanical Properties of Al-(12-20)Si Bi-Material Fabricated by Selective Laser Melting. <i>Materials</i> , 2019 , 12,	3.5	19
1143	Optimizing the magnetic properties of Fe-based amorphous powder by adjusting atomic structures from vitrification at different temperatures. <i>Journal of Applied Physics</i> , 2019 , 126, 165109	2.5	1
1142	Polymorphic Transformation and Magnetic Properties of Rapidly Solidified FeCoNiSiB High-Entropy Alloys. <i>Materials</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22121-22131	3.6	1
1140	Synthesis, characterization and thermodynamic stability of nanostructured β -iron carbonitride powder prepared by a solid-state mechanochemical route. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 327-336	5.7	4

1139	Mechanical properties of the magnetocaloric intermetallic LaFe _{11.2} Si _{1.8} alloy at different length scales. <i>Acta Materialia</i> , 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. <i>Journal of Non-Crystalline Solids</i> , 2019 , 505, 310-319	3.9	4
1137	Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases. <i>Powder Technology</i> , 2019 , 343, 733-737	5.2	1
1136	A comparative study of glass-forming ability, crystallization kinetics and mechanical properties of Zr ₅₅ Co ₂₅ Al ₂₀ and Zr ₅₂ Co ₂₅ Al ₂₃ bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 422-428	5.7	22
1135	Annealing-assisted high-pressure torsion in Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ metallic glass. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1323-1333	5.7	10
1134	Estimation of diffusivity from densification data obtained during spark plasma sintering. <i>Scripta Materialia</i> , 2019 , 161, 36-39	5.6	14
1133	Powder metallurgy of Al-based composites reinforced with Fe-based glassy particles: Effect of microstructural modification. <i>Particulate Science and Technology</i> , 2019 , 37, 286-291	2	6
1132	Universally scaling Hall-Petch-like relationship in metallic glass matrix composites. <i>International Journal of Plasticity</i> , 2018 , 105, 225-238	7.6	33
1131	On cryothermal cycling as a method for inducing structural changes in metallic glasses. <i>NPG Asia Materials</i> , 2018 , 10, 137-145	10.3	50
1130	Origin of large plasticity and multiscale effects in iron-based metallic glasses. <i>Nature Communications</i> , 2018 , 9, 1333	17.4	61
1129	A heat treatable TiB ₂ /Al-3.5Cu-1.5Mg-1Si composite fabricated by selective laser melting: Microstructure, heat treatment and mechanical properties. <i>Composites Part B: Engineering</i> , 2018 , 147, 162-168	10	90
1128	Thermally-triggered Dual In-situ Self-healing Metallic Materials. <i>Scientific Reports</i> , 2018 , 8, 2120	4.9	7
1127	Anisotropy in local microstructure Does it affect the tensile properties of the SLM samples?. <i>Manufacturing Letters</i> , 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. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1005-1015	1.6	3
1125	Local-structure change rendered by electronic localization-delocalization transition in cerium-based metallic glasses. <i>Physical Review B</i> , 2018 , 97,	3.3	3
1124	Amorphous martensite in Ti alloys. <i>Nature Communications</i> , 2018 , 9, 506	17.4	20
1123	High strength nanostructured Al-based alloys through optimized processing of rapidly quenched amorphous precursors. <i>Scientific Reports</i> , 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. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 1104-1114	5.7	5

1121	Thermomechanical processing of In-containing β -type Ti-Nb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 79, 283-291	4.1	10
1120	Anisotropic elastic properties and phase stability of B2 and B19 CuZr structures under hydrostatic pressure. <i>Intermetallics</i> , 2018 , 98, 60-68	3.5	12
1119	Local nanoscale strain mapping of a metallic glass during in situ testing. <i>Applied Physics Letters</i> , 2018 , 112, 171905	3.4	22
1118	Dual self-organised shear banding behaviours and enhanced ductility in phase separating Zr-based bulk metallic glasses. <i>Philosophical Magazine</i> , 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. <i>Journal of Alloys and Compounds</i> , 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. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 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. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 553-560	5.7	6
1114	MnFePSi-based magnetocaloric packed bed regenerators: Structural details probed by X-ray tomography. <i>Chemical Engineering Science</i> , 2018 , 175, 84-90	4.4	6
1113	Wetting, reactivity, and phase formation at interfaces between Ni ₃ Al melts and TiB ₂ ultrahigh-temperature ceramic. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 911-918	3.8	11
1112	Metal release and cell biological compatibility of beta-type Ti-40Nb containing indium. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 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 TiAl ₃ and TiC. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 98-105	5.7	23
1110	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 733, 80-86	5.3	28
1109	Pressure-assisted sintering of Al ₆₀ Cd ₄₀ Ni ₂₀ amorphous alloy powders. <i>Materialia</i> , 2018 , 2, 157-166	3.2	10
1108	Martensitic Transformation and Plastic Deformation of TiCuNiZr-Based Bulk Metallic Glass Composites. <i>Metals</i> , 2018 , 8, 196	2.3	9
1107	Deformation localization in metallic glasses studied by in situ TEM deformation. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1820-1821	0.5	
1106	Metallic glass nanolaminates with shape memory alloys. <i>Acta Materialia</i> , 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. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 735, 81-88	5.3	19
1104	Ductile bulk metallic glass by controlling structural heterogeneities. <i>Scientific Reports</i> , 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. <i>PLoS ONE</i> , 2018 , 13, e0193468	3.7	10
1102	Microstructure and mechanical properties of Al-Cu alloys fabricated by selective laser melting of powder mixtures. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2263-2266	5.7	63
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657	Irreversible and reversible magnetic entropy change in a Dy-based bulk metallic glass. <i>Intermetallics</i> , 2012 , 30, 76-79	3.5	9
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639	Magnetocaloric effect of an Fe-based metallic glass compared to benchmark gadolinium. <i>Journal of Applied Physics</i> , 2012 , 112, 123918	2.5	21
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239	Co-based Soft Magnetic Bulk Materials Prepared by Hot Powder Compaction. <i>European Physical Journal D</i> , 2004 , 54, 81-84		2
238	Magnetoresistance and Magnetoimpedance Effects in DC Joule Heated Fe ₇₂ Al ₅ Ga ₂ P ₁₁ C ₆ B ₄ Amorphous Ribbons. <i>European Physical Journal D</i> , 2004 , 54, 157-160		1
237	Fatigue and fracture behavior of bulk metallic glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 3489-3498	2.3	81
236	Effect of Sn on microstructure and mechanical properties of Ti-base dendrite/ultrafine-structured multicomponent alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 3605-3612	2.3	7
235	Microstructure, mechanical properties, and fracture mechanism of As-cast (Ti _{0.5} Cu _{0.25} Ni _{0.15} Sn _{0.05} Zr _{0.05}) _{100-x} Mo _x composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 1591-1601	2.3	4
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232	Processing dependence of Young's modulus of Ti-base nanostructured alloys. <i>Solid State Communications</i> , 2004 , 129, 711-715	1.6	17
231	Structure and magnetic properties of hot pressed Co-based powder. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 278, 373-378	2.8	19
230	Magnetic properties of bulk amorphous FeAlGaPCBSi samples prepared by ball-milling and subsequent hot pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 265-269	5.3	11
229	Corrosion behaviour of the Mg ₆₅ Y ₁₀ Cu ₁₅ Ag ₁₀ bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 280-284	5.3	25
228	Electrochemical removal of oxygen for processing glass-forming alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 240-243	5.3	10
227	Microstructure and mechanical properties of slowly cooled Zr ₅₀ Nb ₁₀ Cu ₁₀ Ni ₁₀ Al ₂₀ composites with ductile bcc phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 322-326	5.3	41
226	Magnetic properties of amorphous Nd ₆₀ Fe ₂₀ Co ₁₀ Al ₁₀ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 1083-1086	5.3	9
225	Thermal behavior and glass transition of Zr-based bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 351-354	5.3	27
224	Thermal stability and crystallization behavior of Fe ₇₇ C ₅ B ₄ (AlGa) ₃ (PSi) ₁₁ metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 297-301	5.3	4
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220	Hard magnetic properties of bulk amorphous Nd ₆₀ Fe ₂₀ Co ₁₀ Al ₁₀ investigated by SANSPOL. <i>Physica B: Condensed Matter</i> , 2004 , 350, E315-E318	2.8	11
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216	Fracture-Induced Melting in Glassy and Nanostructured Composite Materials. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004 , 20-21, 357-365	0.2	2
215	Pitting corrosion of bulk glass-forming zirconium-based alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 377, 290-297	5.7	96
214	Effect of casting conditions on dendrite-amorphous/nanocrystalline ZrNbCuNiAl in situ composites. <i>Intermetallics</i> , 2004 , 12, 1153-1158	3.5	54
213	Bulk glass forming and thermal stability in Fe _{67.0} Co _{9.5} Nd _{3.0} Dy _{0.5} B ₂₀ alloy. <i>Materials Letters</i> , 2004 , 58, 1844-1852	3.3	7
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211	Structural behavior and glass transition of bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2004 , 345-346, 758-761	3.9	13
210	Electrochemical hydrogenation of Mg ₆₅ Cu ₂₅ Y ₁₀ metallic glass. <i>Journal of Alloys and Compounds</i> , 2004 , 364, 229-237	5.7	55
209	Effect of Y addition on the microstructure and magnetic properties of Nd _{60-x} Y _x Fe ₃₀ Al ₁₀ mould-cast alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 366, 248-253	5.7	7
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201	Improved mechanical behavior of CuTi-based bulk metallic glass by in situ formation of nanoscale precipitates. <i>Scripta Materialia</i> , 2003 , 48, 653-658	5.6	151
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174	Nano-Mechanical Study of Mechanically Alloyed Zr-Cu-Al-Ni Glass Composite Containing Second-Phase ZrC Particles. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 806, 362		
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170	Formation of High-Strength Zr-Nb-Cu-Ni-Al Alloys by Warm Extrusion of Gas Atomized Powders. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 806, 114		
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101	Corrosion behaviour of Mg ₆₅ Y ₁₀ Cu ₂₅ metallic glass. <i>Scripta Materialia</i> , 2000 , 43, 279-283	5.6	42
100	Newtonian flow of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk metallic glassy alloys. <i>Scripta Materialia</i> , 2000 , 43, 459-464	5.6	79
99	Effect of annealing in hydrogen on composition, structure and magnetic properties of rapidly quenched Fe ₇₀ Si ₁₀ TM ₂₀ ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 215-216, 434-436	2.8	2
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96	Equation of state of Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass. <i>Physical Review B</i> , 2000 , 61, 3166-3169	5.9	57

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94	Atomic ordering and magnetic properties in Nd ₅₇ Fe ₂₀ B ₈ Co ₅ Al ₁₀ solids. <i>Journal of Applied Physics</i> , 2000 , 88, 3565-3569	2.5	52
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92	Pressure-Volume Relation of Zr-Ti-Cu-Ni-Be Bulk Metallic Glass. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2000 , 8, 146-150	0.2	
91	Thermal Stability and Viscosity of Mg-Based Glasses and Composites. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2000 , 8, 129-134	0.2	2
90	Variation of Superconductivity in Mechanically Alloyed Pseudo-Quaternary Y-Pt/Pd-B-C. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2000 , 8, 924-932	0.2	1
89	Effect of Co and Cu Alloying on Nd-Fe-Al Based Bulk Amorphous Alloys. <i>Materials Science Forum</i> , 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. <i>Materials Science Forum</i> , 2000 , 343-346, 835-840	0.4	1
87	Glass-forming Ability and Magnetic Properties of Nd ₇₀ Fe ₂₀ Al ₁₀ Cox Alloys. <i>Journal of Materials Research</i> , 2000 , 15, 1556-1563	2.5	52
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80	Thermal and magnetic properties of bulk glass forming Fe-Al-P-C-B-(Ga) alloys. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 855-861	3	23
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76	Synthesis and Properties of Mechanically Alloyed and Ball Milled High Strength Amorphous or Quasicrystalline Al-Alloys. <i>Journal of Metastable and Nanocrystalline Materials</i> , 1999 , 2-6, 49-54	0.2	5
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72	Structural and magnetic properties of mechanically alloyed (Fe _x Cu _{1-x}) ₉₃ Zr ₇ (x = 0.5, 0.7) solid solutions. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 214-215	2.8	8
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