Juergen H Eckert

List of Publications by Citations

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	"Work-Hardenable" ductile bulk metallic glass. *Physical Review Letters*, **2005**, 94, 205501	7.4	791
1245	Difference in compressive and tensile fracture mechanisms of Zr59Cu20Al10Ni8Ti3 bulk metallic glass. *Acta Materialia*, **2003**, 51, 1167-1179	8.4	723
1244	Novel Ti-base nanostructure-dendrite composite with enhanced plasticity. *Nature Materials*, **2003**, 2, 33-7	27	637
1243	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
1242	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
1241	Correlation between enthalpy change and free volume reduction during structural relaxation of Zr55Cu30Al10Ni5 metallic glass. *Scripta Materialia*, **2004**, 50, 39-44	5.6	428
1240	Structural and thermodynamic properties of nanocrystalline fcc metals prepared by mechanical attrition. *Journal of Materials Research*, **1992**, 7, 1751-1761	2.5	410
1239	Transformation-mediated ductility in CuZr-based bulk metallic glasses. *Nature Materials*, **2010**, 9, 473-7	27	407
1238	Manufacture by selective laser melting and mechanical behavior of a biomedical Ti–24Nb–4Zr–8Sn alloy. *Scripta Materialia*, **2011**, 65, 21-24	5.6	385
1237	Selective laser melting of in situ titanium–titanium boride composites: Processing, microstructure and mechanical properties. *Acta Materialia*, **2014**, 76, 13-22	8.4	375
1236	Mechanical properties of bulk metallic glasses and composites. *Journal of Materials Research*, **2007**, 22, 285-301	2.5	341
1235	Crystallization Behavior and Phase Formation in Zr–Al–Cu–Ni Metallic Glass Containing Oxygen. *Materials Transactions, JIM*, **1998**, 39, 623-632		319
1234	Functional Mesoporous Carbon-Coated Separator for Long-Life, High-Energy Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2015**, 25, 5285-5291	15.6	311
1233	Additive Manufacturing Processes: Selective Laser Melting, Electron Beam Melting and Binder Jetting-Selection Guidelines. *Materials*, **2017**, 10,	3.5	301
1232	Mechanical Properties of Bulk Metallic Glasses. *MRS Bulletin*, **2007**, 32, 635-638	3.2	298
1231	Fracture mechanisms in bulk metallic glassy materials. *Physical Review Letters*, **2003**, 91, 045505	7.4	293
1230	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

1229	Aromatic porous-honeycomb electrodes for a sodium-organic energy storage device. *Nature Communications*, **2013**, 4, 1485	17.4	274
1228	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
1227	Mechanically driven alloying and grain size changes in nanocrystalline Fe-Cu powders. *Journal of Applied Physics*, **1993**, 73, 2794-2802	2.5	259
1226	Processing metallic glasses by selective laser melting. *Materials Today*, **2013**, 16, 37-41	21.8	258
1225	Towards ultrastrong glasses. *Advanced Materials*, **2011**, 23, 4578-86	24	251
1224	Caloric Effects in Ferroic Materials: New Concepts for Cooling. *Advanced Engineering Materials*, **2012**, 14, 10-19	3.5	242
1223	ZrNbCuNiAl bulk metallic glass matrix composites containing dendritic bcc phase precipitates. *Applied Physics Letters*, **2002**, 80, 2478-2480	3.4	239
1222	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
1221	Formation of metastable cellular microstructures in selective laser melted alloys. *Journal of Alloys and Compounds*, **2017**, 707, 27-34	5.7	235
1220	Free-standing single-atom-thick iron membranes suspended in graphene pores. *Science*, **2014**, 343, 1228-32	33.3	223
1219	Microstructural heterogeneities governing the deformation of Cu47.5Zr47.5Al5 bulk metallic glass composites. *Acta Materialia*, **2009**, 57, 5445-5453	8.4	215
1218	Defining the tensile properties of Al-12Si parts produced by selective laser melting. *Acta Materialia*, **2017**, 126, 25-35	8.4	208
1217	Thermal stability and grain growth behavior of mechanically alloyed nanocrystalline Fe-Cu alloys. *Journal of Applied Physics*, **1993**, 73, 131-141	2.5	206
1216	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
1215	Improved superconducting properties in nanocrystalline bulk MgB2. *Applied Physics Letters*, **2002**, 80, 2725-2727	3.4	200
1214	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
1213	High-strength materials produced by precipitation of icosahedral quasicrystals in bulk ZrTiCuNiAl amorphous alloys. *Applied Physics Letters*, **1999**, 74, 664-666	3.4	194
1212	Unified tensile fracture criterion. *Physical Review Letters*, **2005**, 94, 094301	7.4	192

1211	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
1210	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
1209	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. *Materials Research Letters*, **2017**, 5, 386-390	7.4	182
1208	A growth mechanism for free-standing vertical graphene. *Nano Letters*, **2014**, 14, 3064-71	11.5	182
1207	Fabrication of Fe-based bulk metallic glass by selective laser melting: A parameter study. *Materials and Design*, **2015**, 86, 703-708	8.1	179
1206	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
1205	Effect of crystalline precipitations on the mechanical behavior of bulk glass forming Zr-based alloys. *Scripta Materialia*, **1998**, 10, 805-817		172
1204	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
1203	Phase separation in metallic glasses. *Progress in Materials Science*, **2013**, 58, 1103-1172	42.2	167
1202	Structural behavior of CuxZr100□ metallic glass (x=35□70). *Journal of Non-Crystalline Solids*, **2008**, 354, 1054-1060	3.9	164
1201	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
1200	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
1199	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
1198	Improved mechanical behavior of CuTi-based bulk metallic glass by in situ formation of nanoscale precipitates. *Scripta Materialia*, **2003**, 48, 653-658	5.6	151
1197	Additive manufacturing of Cu10Sn bronze. *Materials Letters*, **2015**, 156, 202-204	3.3	150
1196	An energy storage principle using bipolar porous polymeric frameworks. *Angewandte Chemie - International Edition*, **2012**, 51, 7850-4	16.4	150
1195	Deformation-induced martensitic transformation in CuZr(Al,Ti) bulk metallic glass composites. *Scripta Materialia*, **2009**, 60, 431-434	5.6	148
1194	Formation of quasicrystals by mechanical alloying. *Applied Physics Letters*, **1989**, 55, 117-119	3.4	145

1193	Designing biocompatible Ti-based metallic glasses for implant applications. *Materials Science and Engineering C*, **2013**, 33, 875-83	8.3	142
1192	High-strength Ti-base ultrafine eutectic with enhanced ductility. *Applied Physics Letters*, **2005**, 87, 161907	3.4	142
1191	Heterogeneity of a Cu47.5Zr47.5Al5 bulk metallic glass. *Applied Physics Letters*, **2006**, 88, 051911	3.4	141
1190	Melting behavior of nanocrystalline aluminum powders. *Scripta Materialia*, **1993**, 2, 407-413		137
1189	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
1188	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
1187	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
1186	Relation between short-range order and crystallization behavior in Zr-based amorphous alloys. *Applied Physics Letters*, **2000**, 77, 1970-1972	3.4	124
1185	High strength TiBeSn ultrafine composites with large plasticity. *Scripta Materialia*, **2007**, 57, 101-104	5.6	123
1184	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
1183	High strength ductile Cu-base metallic glass. *Intermetallics*, **2006**, 14, 876-881	3.5	118
1182	Influence of Annealing on Mechanical Properties of Al-20Si Processed by Selective Laser Melting. *Metals*, **2014**, 4, 28-36	2.3	117
1181	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. *Chemistry of Materials*, **2014**, 26, 1074-1083	9.6	116
1180	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithiumSulfur batteries. *Carbon*, **2013**, 61, 245-253	10.4	115
1179	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. *Acta Materialia*, **2011**, 59, 6620-6630	8.4	114
1178	In situ formed TiCuNiSnTa nanostructure-dendrite composite with large plasticity. *Acta Materialia*, **2003**, 51, 5223-5234	8.4	114
1177	Triple yielding and deformation mechanisms in metastable Cu47.5Zr47.5Al5 composites. *Acta Materialia*, **2012**, 60, 6000-6012	8.4	113
1176	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

1175	Tribological and corrosion properties of Al□12Si produced by selective laser melting. *Journal of Materials Research*, **2014**, 29, 2044-2054	2.5	108
1174	Selective laser melting of a beta-solidifying TNM-B1 titanium aluminide alloy. *Journal of Materials Processing Technology*, **2014**, 214, 1852-1860	5.3	107
1173	Improved plasticity of bulk metallic glasses upon cold rolling. *Scripta Materialia*, **2010**, 62, 678-681	5.6	107
1172	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
1171	High-strength Zr-Nb-(Cu,Ni,Al) composites with enhanced plasticity. *Applied Physics Letters*, **2003**, 82, 4690-4692	3.4	106
1170	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
1169	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
1168	Effect of cooling rate on the precipitation of quasicrystals from the Zr□CuAlNi□Ti amorphous alloy. *Applied Physics Letters*, **1998**, 73, 2110-2112	3.4	103
1167	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
1166	Production of high strength Al85Nd8Ni5Co2 alloy by selective laser melting. *Additive Manufacturing*, **2015**, 6, 1-5	6.1	101
1165	Reversible grain size changes in ball-milled nanocrystalline Fe□u alloys. *Journal of Materials Research*, **1992**, 7, 1980-1983	2.5	101
1164	Microstructure and properties of FeCrMoVC tool steel produced by selective laser melting. *Materials and Design*, **2016**, 89, 335-341	8.1	100
1163	Nanostructured Ti-based multi-component alloys with potential for biomedical applications. *Biomaterials*, **2003**, 24, 5115-20	15.6	99
1162	Short-range order of Cu□r metallic glasses. *Journal of Alloys and Compounds*, **2009**, 485, 163-169	5.7	98
1161	Mechanical behavior of Fe65.5Cr4Mo4Ga4P12C5B5.5 bulk metallic glass. *Intermetallics*, **2005**, 13, 764-769	3.5	98
1160	Composition dependence of the microstructure and the mechanical properties of nano/ultrafine-structured Ti□uNi□nNb alloys. *Acta Materialia*, **2004**, 52, 3035-3046	8.4	98
1159	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
1158	Stability, phase transformation and deformation behavior of Ti-base metallic glass and composites. *Acta Materialia*, **2003**, 51, 1621-1631	8.4	97

1157	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
1156	Improved cycling stability of lithium–sulfur 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
1155	Comparative study of microstructures and mechanical properties of in situ Ti–TiB composites produced by selective laser melting, powder metallurgy, and casting technologies. *Journal of Materials Research*, **2014**, 29, 1941-1950	2.5	96
1154	Pitting corrosion of bulk glass-forming zirconium-based alloys. *Journal of Alloys and Compounds*, **2004**, 377, 290-297	5.7	96
1153	Grain refinement assisted strengthening of carbon nanotube reinforced copper matrix nanocomposites. *Applied Physics Letters*, **2008**, 92, 121901	3.4	94
1152	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
1151	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy-Storage Material. *Advanced Energy Materials*, **2014**, 4, 1300645	21.8	90
1150	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. *ACS Nano*, **2015**, 9, 11408-13	16.7	89
1149	High strength ultrafine eutectic Fe–Nb–Al composites with enhanced plasticity. *Intermetallics*, **2008**, 16, 642-650	3.5	89
1148	Microscopic deformation mechanism of a Ti66.1Nb13.9Ni4.8Cu8Sn7.2 nanostructured–dendrite composite. *Acta Materialia*, **2006**, 54, 3701-3711	8.4	89
1147	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
1146	Synthesis and mechanical properties of cast quasicrystal-reinforced Al-alloys. *Acta Materialia*, **2001**, 49, 1351-1361	8.4	89
1145	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
1144	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
1143	Mechanically alloyed Zr55Al10Cu30Ni5 metallic glass composites containing nanocrystalline W particles. *Journal of Applied Physics*, **1999**, 85, 7112-7119	2.5	87
1142	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. *Journal of Materials Research*, **2009**, 24, 2605-2609	2.5	85
1141	Fabrication and mechanical properties of Ni–Nb metallic glass particle-reinforced Al-based metal matrix composite. *Scripta Materialia*, **2006**, 54, 1445-1450	5.6	84
1140	Structural bulk metallic glasses with different length-scale of constituent phases. *Intermetallics*, **2002**, 10, 1183-1190	3.5	84

1139	Processing of Al□12Si□NM composites by selective laser melting and evaluation of compressive and wear properties. *Journal of Materials Research*, **2016**, 31, 55-65	2.5	84
1138	Manipulation of free volumes in a metallic glass through Xe-ion irradiation. *Acta Materialia*, **2016**, 106, 66-77	8.4	82
1137	Thermal stability and phase transformations of martensitic Ti-Nb alloys. *Science and Technology of Advanced Materials*, **2013**, 14, 055004	7.1	81
1136	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
1135	Short-range order of Zr62□TixAl10Cu20Ni8 bulk metallic glasses. *Acta Materialia*, **2002**, 50, 305-314	8.4	81
1134	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
1133	Friction welding of Al□12Si parts produced by selective laser melting. *Materials & Design*, **2014**, 57, 632-637		80
1132	Phase stability and its effect on the deformation behavior of Ti□Nb□Ta□h/Cr □alloys. *Scripta Materialia*, **2006**, 54, 1943-1948	5.6	80
1131	Newtonian flow of Zr55Cu30Al10Ni5 bulk metallic glassy alloys. *Scripta Materialia*, **2000**, 43, 459-464	5.6	79
1130	Direct growth of ultrafast transparent single-layer graphene defoggers. *Small*, **2015**, 11, 1840-6	11	78
1129	Structure-property relationships in nanoporous metallic glasses. *Acta Materialia*, **2016**, 106, 199-207	8.4	77
1128	Comparison of different post processing technologies for SLM generated 316l steel parts. *Rapid Prototyping Journal*, **2013**, 19, 173-179	3.8	77
1127	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
1126	Behavior of multiple shear bands in Zr-based bulk metallic glass. *Materials Chemistry and Physics*, **2005**, 93, 174-177	4.4	77
1125	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. *Scripta Materialia*, **2007**, 56, 605-608	5.6	76
1124	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
1123	Selective laser melting of La(Fe,Co,Si)13 geometries for magnetic refrigeration. *Journal of Applied Physics*, **2013**, 114, 043907	2.5	75
1122	Significant tensile ductility induced by cold rolling in Cu47.5Zr47.5Al5 bulk metallic glass. *Intermetallics*, **2011**, 19, 1394-1398	3.5	75

1121	Wavy cleavage fracture of bulk metallic glass. *Applied Physics Letters*, **2006**, 89, 251917	3.4	75
1120	Cooling Rate Evaluation for Bulk Amorphous Alloys from Eutectic Microstructures in Casting Processes. *Materials Transactions*, **2002**, 43, 1670-1675	1.3	75
1119	Production and mechanical properties of metallic glass-reinforced Al-based metal matrix composites. *Journal of Materials Science*, **2008**, 43, 4518-4526	4.3	74
1118	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. *Scripta Materialia*, **2004**, 50, 1221-1225	5.6	74
1117	Modeling deformation behavior of Cu□r□Al bulk metallic glass matrix composites. *Applied Physics Letters*, **2009**, 95, 101906	3.4	73
1116	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
1115	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
1114	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
1113	Ti□Cu□Ni shape memory bulk metallic glass composites. *Acta Materialia*, **2013**, 61, 151-162	8.4	71
1112	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
1111	Hybrid nanostructured aluminum alloy with super-high strength. *NPG Asia Materials*, **2015**, 7, e229-e229	10.3	70
1110	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
1109	Formation of a bimodal eutectic structure in Ti□Fe□Sn alloys with enhanced plasticity. *Applied Physics Letters*, **2008**, 93, 141901	3.4	70
1108	High-mobility graphene on liquid p-block elements by ultra-low-loss CVD growth. *Scientific Reports*, **2013**, 3, 2670	4.9	69
1107	Criteria for tensile plasticity in Cu□r□Al bulk metallic glasses. *Acta Materialia*, **2010**, 58, 4883-4890	8.4	69
1106	Oxide dispersion strengthened mechanically alloyed amorphous Zr-Al-Cu-Ni composites. *Scripta Materialia*, **1998**, 38, 595-602	5.6	69
1105	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
1104	Novel Approach for Alternating Current (AC)-Driven Organic Light-Emitting Devices. *Advanced Functional Materials*, **2012**, 22, 210-217	15.6	68

1103	Structural evolution of Cu□r metallic glasses under tension. *Acta Materialia*, **2009**, 57, 4133-4139	8.4	68
1102	Corrosion behaviour of Zr-based bulk glass-forming alloys containing Nb or Ti. *Materials Letters*, **2002**, 57, 173-177	3.3	68
1101	Phase formation and thermal stability in Cu□rTi(Al) metallic glasses. *Intermetallics*, **2009**, 17, 453-462	3.5	67
1100	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
1099	Brittle-to-Ductile Transition in Metallic Glass Nanowires. *Nano Letters*, **2016**, 16, 4467-71	11.5	66
1098	Phase formation and mechanical properties of Ti□uNi□r bulk metallic glass composites. *Acta Materialia*, **2014**, 65, 259-269	8.4	66
1097	Nanostructured □phase Ti□1.0Fe□.0Sn and sub-□n structured Ti□9.3Nb□3.3Zr□0.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. *Materials Science and Engineering C*, **2012**, 32, 2418-2425	8.3	66
1096	Crystallization in Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass under pressure. *Applied Physics Letters*, **2000**, 77, 3553-3555	3.4	66
1095	Metallic glasses: Notch-insensitive materials. *Scripta Materialia*, **2012**, 66, 733-736	5.6	65
1094	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
1093	Origin of intermittent plastic flow and instability of shear band sliding in bulk metallic glasses. *Physical Review Letters*, **2013**, 110, 225501	7.4	64
1092	Ductile bulk metallic glasses produced through designed heterogeneities. *Scripta Materialia*, **2011**, 65, 815-818	5.6	64
1091	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
1090	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
1089	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. *Intermetallics*, **2006**, 14, 982-986	3.5	64
1088	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
1087	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
1086	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

1085	Production of Porous Ti-Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. *Materials*, **2013**, 6, 5700-5712	3.5	63
1084	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
1083	Kinetics of the glass-transition and crystallization process of Fe72-xNbxAl5Ga2P11C6B4 (x=0, 2) metallic glasses. *Applied Physics Letters*, **2001**, 78, 2145-2147	3.4	63
1082	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
1081	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
1080	Mechanical alloying and milling of Al-Mg alloys. *Journal of Alloys and Compounds*, **2009**, 483, 2-7	5.7	62
1079	Ductile ultrafine-grained Ti-based alloys with high yield strength. *Applied Physics Letters*, **2007**, 91, 051906	3.4	62
1078	Thermal stability and crystallization kinetics of mechanically alloyed TiC-Ti-based metallic glass matrix composite. *Journal of Applied Physics*, **2006**, 100, 033514	2.5	62
1077	Origin of large plasticity and multiscale effects in iron-based metallic glasses. *Nature Communications*, **2018**, 9, 1333	17.4	61
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