

Juergen H Eckert

List of Publications by Year in descending order

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1,262
papers

51,889
citations

1893

102
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4774

169
g-index

1283
all docs

1283
docs citations

1283
times ranked

24433
citing authors

#	ARTICLE	IF	CITATIONS
1	“Work-Hardenable” Ductile Bulk Metallic Glass. <i>Physical Review Letters</i> , 2005, 94, 205501.	7.8	857
2	Difference in compressive and tensile fracture mechanisms of Zr ₅₉ Cu ₂₀ Al ₁₀ Ni ₈ Ti ₃ bulk metallic glass. <i>Acta Materialia</i> , 2003, 51, 1167-1179.	7.9	797
3	Novel Ti-base nanostructure “dendrite composite with enhanced plasticity. <i>Nature Materials</i> , 2003, 2, 33-37.	27.5	684
4	Microstructure and mechanical properties of Al “12Si produced by selective laser melting: Effect of heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 590, 153-160.	5.6	649
5	Manufacture by selective laser melting and mechanical behavior of commercially pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 593, 170-177.	5.6	566
6	Additive Manufacturing Processes: Selective Laser Melting, Electron Beam Melting and Binder Jetting “Selection Guidelines. <i>Materials</i> , 2017, 10, 672.	2.9	513
7	Correlation between enthalpy change and free volume reduction during structural relaxation of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ metallic glass. <i>Scripta Materialia</i> , 2004, 50, 39-44.	5.2	483
8	Selective laser melting of in situ titanium “titanium boride composites: Processing, microstructure and mechanical properties. <i>Acta Materialia</i> , 2014, 76, 13-22.	7.9	483
9	Manufacture by selective laser melting and mechanical behavior of a biomedical Ti “24Nb “4Zr “8Sn alloy. <i>Scripta Materialia</i> , 2011, 65, 21-24.	5.2	482
10	Transformation-mediated ductility in CuZr-based bulk metallic glasses. <i>Nature Materials</i> , 2010, 9, 473-477.	27.5	454
11	Structural and thermodynamic properties of nanocrystalline fcc metals prepared by mechanical attrition. <i>Journal of Materials Research</i> , 1992, 7, 1751-1761.	2.6	443
12	Simultaneous enhancements of strength and toughness in an Al-12Si alloy synthesized using selective laser melting. <i>Acta Materialia</i> , 2016, 115, 285-294.	7.9	408
13	Formation of metastable cellular microstructures in selective laser melted alloys. <i>Journal of Alloys and Compounds</i> , 2017, 707, 27-34.	5.5	387
14	Mechanical properties of bulk metallic glasses and composites. <i>Journal of Materials Research</i> , 2007, 22, 285-301.	2.6	386
15	Functional Mesoporous Carbon “Coated Separator for Long “Life, High “Energy Lithium “Sulfur Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 5285-5291.	14.9	374
16	Crystallization Behavior and Phase Formation in Zr “Al “Cu “Ni Metallic Glass Containing Oxygen. <i>Materials Transactions, JIM</i> , 1998, 39, 623-632.	0.9	349
17	Processing metallic glasses by selective laser melting. <i>Materials Today</i> , 2013, 16, 37-41.	14.2	345
18	Mechanical Properties of Bulk Metallic Glasses. <i>MRS Bulletin</i> , 2007, 32, 635-638.	3.5	328

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19	Aromatic porous-honeycomb electrodes for a sodium-organic energy storage device. Nature Communications, 2013, 4, 1485.	12.8	327
20	Fracture Mechanisms in Bulk Metallic Glassy Materials. Physical Review Letters, 2003, 91, 045505.	7.8	318
21	Towards Ultrastrong Glasses. Advanced Materials, 2011, 23, 4578-4586.	21.0	314
22	Defining the tensile properties of Al-12Si parts produced by selective laser melting. Acta Materialia, 2017, 126, 25-35.	7.9	304
23	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. Materials Research Letters, 2017, 5, 386-390.	8.7	294
24	Effect of oxygen on phase formation and thermal stability of slowly cooled Zr ₆₅ Al _{7.5} Cu _{17.5} Ni ₁₀ metallic glass. Acta Materialia, 1998, 46, 5475-5482.	7.9	293
25	Mechanically driven alloying and grain size changes in nanocrystalline Fe-Cu powders. Journal of Applied Physics, 1993, 73, 2794-2802.	2.5	285
26	Caloric Effects in Ferroic Materials: New Concepts for Cooling. Advanced Engineering Materials, 2012, 14, 10-19.	3.5	278
27	Free-Standing Single-Atom-Thick Iron Membranes Suspended in Graphene Pores. Science, 2014, 343, 1228-1232.	12.6	274
28	Fabrication of Fe-based bulk metallic glass by selective laser melting: A parameter study. Materials and Design, 2015, 86, 703-708.	7.0	261
29	Class-forming range in mechanically alloyed Ni-Zr and the influence of the milling intensity. Journal of Applied Physics, 1988, 64, 3224-3228.	2.5	257
30	ZrNbCuNiAl bulk metallic glass matrix composites containing dendritic bcc phase precipitates. Applied Physics Letters, 2002, 80, 2478-2480.	3.3	257
31	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.	7.9	246
32	Microstructural heterogeneities governing the deformation of Cu _{47.5} Zr _{47.5} Al ₅ bulk metallic glass composites. Acta Materialia, 2009, 57, 5445-5453.	7.9	241
33	Mechanical behavior of porous commercially pure Ti and Ti-TiB composite materials manufactured by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 350-356.	5.6	235
34	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. Acta Materialia, 2009, 57, 2029-2039.	7.9	229
35	Thermal stability and grain growth behavior of mechanically alloyed nanocrystalline Fe-Cu alloys. Journal of Applied Physics, 1993, 73, 131-141.	2.5	227
36	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.	5.6	225

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37	Comparison of wear properties of commercially pure titanium prepared by selective laser melting and casting processes. Materials Letters, 2015, 142, 38-41.	2.6	222
38	A Growth Mechanism for Free-Standing Vertical Graphene. Nano Letters, 2014, 14, 3064-3071.	9.1	221
39	High-strength materials produced by precipitation of icosahedral quasicrystals in bulk Zrâ€“Tiâ€“Cuâ€“Niâ€“Al amorphous alloys. Applied Physics Letters, 1999, 74, 664-666.	3.3	219
40	Improved superconducting properties in nanocrystalline bulk MgB ₂ . Applied Physics Letters, 2002, 80, 2725-2727.	3.3	214
41	Unified Tensile Fracture Criterion. Physical Review Letters, 2005, 94, 094301.	7.8	213
42	Phase separation in metallic glasses. Progress in Materials Science, 2013, 58, 1103-1172.	32.8	209
43	Additive manufacturing of Cuâ€“10Sn bronze. Materials Letters, 2015, 156, 202-204.	2.6	208
44	Effect of Powder Particle Shape on the Properties of In Situ Tiâ€“TiB Composite Materials Produced by Selective Laser Melting. Journal of Materials Science and Technology, 2015, 31, 1001-1005.	10.7	201
45	Serrated flow and stickâ€“slip deformation dynamics in the presence of shear-band interactions for a Zr-based metallic glass. Acta Materialia, 2012, 60, 4160-4171.	7.9	193
46	Effect of crystalline precipitations on the mechanical behavior of bulk glass forming Zr-based alloys. Scripta Materialia, 1998, 10, 805-817.	0.5	189
47	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.	5.6	185
48	Designing biocompatible Ti-based metallic glasses for implant applications. Materials Science and Engineering C, 2013, 33, 875-883.	7.3	178
49	The Role of Interfacial Oxygen Atoms in the Enhanced Mechanical Properties of Carbonâ€“Nanotubeâ€“Reinforced Metal Matrix Nanocomposites. Small, 2008, 4, 1936-1940.	10.0	177
50	Structural behavior of Cu _x Zr _{100-x} metallic glass (x=35~70). Journal of Non-Crystalline Solids, 2008, 354, 1054-1060.	3.1	177
51	An Energy Storage Principle using Bipolar Porous Polymeric Frameworks. Angewandte Chemie - International Edition, 2012, 51, 7850-7854.	13.8	177
52	Hydrothermal carbon-based nanostructured hollow spheres as electrode materials for high-power lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2013, 15, 6080.	2.8	167
53	Deformation-induced martensitic transformation in Cuâ€“Zrâ€“(Al,Ti) bulk metallic glass composites. Scripta Materialia, 2009, 60, 431-434.	5.2	166
54	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.	18.0	166

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55	Powder metallurgy of Al-based metal matrix composites reinforced with Al_2Mg intermetallic particles: Analysis and modeling of mechanical properties. <i>Acta Materialia</i> , 2009, 57, 4529-4538.	7.9	165
56	Formation of quasicrystals by mechanical alloying. <i>Applied Physics Letters</i> , 1989, 55, 117-119.	3.3	163
57	Improved mechanical behavior of Cu-Ti-based bulk metallic glass by in situ formation of nanoscale precipitates. <i>Scripta Materialia</i> , 2003, 48, 653-658.	5.2	161
58	Synergistically Enhanced Polysulfide Chemisorption Using a Flexible Hybrid Separator with N and S Dual-Doped Mesoporous Carbon Coating for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14586-14595.	8.0	153
59	Heterogeneity of a $\text{Cu}_{47.5}\text{Zr}_{47.5}\text{Al}_5$ bulk metallic glass. <i>Applied Physics Letters</i> , 2006, 88, 051911.	3.3	152
60	High-strength Ti-base ultrafine eutectic with enhanced ductility. <i>Applied Physics Letters</i> , 2005, 87, 161907.	3.3	151
61	Melting behavior of nanocrystalline aluminum powders. <i>Scripta Materialia</i> , 1993, 2, 407-413.	0.5	150
62	Multimetallic Aerogels by Template-Free Self-Assembly of Au, Ag, Pt, and Pd Nanoparticles. <i>Chemistry of Materials</i> , 2014, 26, 1074-1083.	6.7	148
63	Selective laser melting of Al-Zn-Mg-Cu: Heat treatment, microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2017, 707, 287-290.	5.5	147
64	Effect of aspect ratio on the compressive deformation and fracture behaviour of Zr-based bulk metallic glass. <i>Philosophical Magazine Letters</i> , 2005, 85, 513-521.	1.2	145
65	Influence of Annealing on Mechanical Properties of Al-20Si Processed by Selective Laser Melting. <i>Metals</i> , 2014, 4, 28-36.	2.3	144
66	Relation between short-range order and crystallization behavior in Zr-based amorphous alloys. <i>Applied Physics Letters</i> , 2000, 77, 1970-1972.	3.3	138
67	Tribological and corrosion properties of Al_{12}Si produced by selective laser melting. <i>Journal of Materials Research</i> , 2014, 29, 2044-2054.	2.6	138
68	Microstructure and mechanical properties of the near-beta titanium alloy Ti-5553 processed by selective laser melting. <i>Materials and Design</i> , 2016, 105, 75-80.	7.0	138
69	Microstructure and properties of FeCrMoVC tool steel produced by selective laser melting. <i>Materials and Design</i> , 2016, 89, 335-341.	7.0	135
70	A heat treatable $\text{TiB}_2/\text{Al}-3.5\text{Cu}-1.5\text{Mg}-1\text{Si}$ composite fabricated by selective laser melting: Microstructure, heat treatment and mechanical properties. <i>Composites Part B: Engineering</i> , 2018, 147, 162-168.	12.0	134
71	High strength Ti-Fe-Sn ultrafine composites with large plasticity. <i>Scripta Materialia</i> , 2007, 57, 101-104.	5.2	133
72	Triple yielding and deformation mechanisms in metastable $\text{Cu}_{47.5}\text{Zr}_{47.5}\text{Al}_5$ composites. <i>Acta Materialia</i> , 2012, 60, 6000-6012.	7.9	133

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73	Strategy for pinpointing the formation of B2 CuZr in metastable CuZr-based shape memory alloys. <i>Acta Materialia</i> , 2011, 59, 6620-6630.	7.9	131
74	Selective laser melting of a beta-solidifying TNM-B1 titanium aluminide alloy. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1852-1860.	6.3	131
75	SEI-component formation on sub 5 nm sized silicon nanoparticles in Li-ion batteries: the role of electrode preparation, FEC addition and binders. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24956-24967.	2.8	129
76	Improved plasticity of bulk metallic glasses upon cold rolling. <i>Scripta Materialia</i> , 2010, 62, 678-681.	5.2	128
77	Ultrafine composite microstructure in a bulk Ti alloy for high strength, strain hardening and tensile ductility. <i>Acta Materialia</i> , 2006, 54, 1349-1357.	7.9	125
78	In situ formed Ti-Cu-Ni-Sn-Ta nanostructure-dendrite composite with large plasticity. <i>Acta Materialia</i> , 2003, 51, 5223-5234.	7.9	123
79	High strength ductile Cu-base metallic glass. <i>Intermetallics</i> , 2006, 14, 876-881.	3.9	123
80	Short-range order of Cu-Zr metallic glasses. <i>Journal of Alloys and Compounds</i> , 2009, 485, 163-169.	5.5	122
81	Microstructure and mechanical properties of a heat-treatable Al-3.5Cu-1.5Mg-1Si alloy produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 562-570.	5.6	121
82	Hydrothermal nanocasting: Synthesis of hierarchically porous carbon monoliths and their application in lithium-sulfur batteries. <i>Carbon</i> , 2013, 61, 245-253.	10.3	120
83	Mesoporous Carbon Interlayers with Tailored Pore Volume as Polysulfide Reservoir for High-Energy Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4580-4587.	3.1	120
84	Production of high strength Al ₈₅ Nd ₈ Ni ₅ Co ₂ alloy by selective laser melting. <i>Additive Manufacturing</i> , 2015, 6, 1-5.	3.0	120
85	<i>In Situ</i> Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. <i>ACS Nano</i> , 2015, 9, 11408-11413.	14.6	118
86	Comparative study of microstructures and mechanical properties of in situ Ti-TiB composites produced by selective laser melting, powder metallurgy, and casting technologies. <i>Journal of Materials Research</i> , 2014, 29, 1941-1950.	2.6	116
87	Improved cycling stability of lithium-sulfur batteries using a polypropylene-supported nitrogen-doped mesoporous carbon hybrid separator as polysulfide adsorbent. <i>Journal of Power Sources</i> , 2016, 303, 317-324.	7.8	114
88	Investigations on the electrochemical behaviour of Zr-based bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999, 267, 294-300.	5.6	113
89	Friction welding of Al-12Si parts produced by selective laser melting. <i>Materials & Design</i> , 2014, 57, 632-637.	5.1	113
90	Manipulation of free volumes in a metallic glass through Xe-ion irradiation. <i>Acta Materialia</i> , 2016, 106, 66-77.	7.9	113

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91	Grain refinement assisted strengthening of carbon nanotube reinforced copper matrix nanocomposites. Applied Physics Letters, 2008, 92, .	3.3	112
92	Selective laser melting of La(Fe,Co,Si) ₁₃ geometries for magnetic refrigeration. Journal of Applied Physics, 2013, 114, .	2.5	111
93	Nanostructured Ti-based multi-component alloys with potential for biomedical applications. Biomaterials, 2003, 24, 5115-5120.	11.4	110
94	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.	7.9	110
95	Reversible grain size changes in ball-milled nanocrystalline Fe-Cu alloys. Journal of Materials Research, 1992, 7, 1980-1983.	2.6	109
96	Effect of cooling rate on the precipitation of quasicrystals from the Zr-Cu-Al-Ni-Ti amorphous alloy. Applied Physics Letters, 1998, 73, 2110-2112.	3.3	109
97	High-strength Zr-Nb-(Cu,Ni,Al) composites with enhanced plasticity. Applied Physics Letters, 2003, 82, 4690-4692.	3.3	108
98	Mechanical behavior of Fe _{65.5} Cr ₄ Mo ₄ Ga ₄ P ₁₂ C ₅ B _{5.5} bulk metallic glass. Intermetallics, 2005, 13, 764-769.	3.9	108
99	Comparison of different post processing technologies for SLM generated 316l steel parts. Rapid Prototyping Journal, 2013, 19, 173-179.	3.2	108
100	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO ₂ by Chemical Vapor Deposition. ACS Nano, 2017, 11, 1946-1956.	14.6	108
101	Thermal stability and phase transformations of martensitic Ti-Nb alloys. Science and Technology of Advanced Materials, 2013, 14, 055004.	6.1	107
102	A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting. Transactions of Nonferrous Metals Society of China, 2020, 30, 2001-2034.	4.2	106
103	Pitting corrosion of bulk glass-forming zirconium-based alloys. Journal of Alloys and Compounds, 2004, 377, 290-297.	5.5	104
104	Processing of Al-12Si-Ti-Ni composites by selective laser melting and evaluation of compressive and wear properties. Journal of Materials Research, 2016, 31, 55-65.	2.6	103
105	Synthesis and mechanical properties of cast quasicrystal-reinforced Al-alloys. Acta Materialia, 2001, 49, 1351-1361.	7.9	102
106	Stability, phase transformation and deformation behavior of Ti-base metallic glass and composites. Acta Materialia, 2003, 51, 1621-1631.	7.9	102
107	Structure-property relationships in nanoporous metallic glasses. Acta Materialia, 2016, 106, 199-207.	7.9	101
108	Effect of Ta on glass formation, thermal stability and mechanical properties of a Zr _{52.25} Cu _{28.5} Ni _{4.75} Al _{9.5} Ta ₅ bulk metallic glass. Acta Materialia, 2003, 51, 2383-2395.	7.9	100

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109	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, 15641-15646.	7.1	100
110	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.	3.1	100
111	Mechanically alloyed Zr ₅₅ Al ₁₀ Cu ₃₀ Ni ₅ metallic glass composites containing nanocrystalline W particles. Journal of Applied Physics, 1999, 85, 7112-7119.	2.5	99
112	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. Journal of Materials Research, 2009, 24, 2605-2609.	2.6	98
113	Review on manufacture by selective laser melting and properties of titanium based materials for biomedical applications. Materials Technology, 2016, 31, 66-76.	3.0	97
114	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy Storage Material. Advanced Energy Materials, 2014, 4, 1300645.	19.5	96
115	Fabrication and mechanical properties of Ni-Nb metallic glass particle-reinforced Al-based metal matrix composite. Scripta Materialia, 2006, 54, 1445-1450.	5.2	95
116	High strength ultrafine eutectic Fe-Nb-Al composites with enhanced plasticity. Intermetallics, 2008, 16, 642-650.	3.9	95
117	Microscopic deformation mechanism of a Ti _{66.1} Nb _{13.9} Ni _{4.8} Cu ₈ Sn _{7.2} nanostructure-dendrite composite. Acta Materialia, 2006, 54, 3701-3711.	7.9	93
118	Phase stability and its effect on the deformation behavior of Ti-Nb-Ta-In/Cr alloys. Scripta Materialia, 2006, 54, 1943-1948.	5.2	93
119	Direct Growth of Ultrafast Transparent Single-Layer Graphene Defoggers. Small, 2015, 11, 1840-1846.	10.0	92
120	Formation of quasicrystalline and amorphous phases in mechanically alloyed Al-based and Ti-Ni-based alloys. Acta Metallurgica Et Materialia, 1991, 39, 1497-1506.	1.8	90
121	Nanostructured β -phase Ti-31.0Fe-9.0Sn and sub- μ m structured Ti-39.3Nb-13.3Zr-10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. Materials Science and Engineering C, 2012, 32, 2418-2425.	7.3	90
122	Origin of large plasticity and multiscale effects in iron-based metallic glasses. Nature Communications, 2018, 9, 1333.	12.8	89
123	Newtonian flow of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk metallic glassy alloys. Scripta Materialia, 2000, 43, 459-464.	5.2	88
124	Short-range order of Zr _{62-x} Ti _x Al ₁₀ Cu ₂₀ Ni ₈ bulk metallic glasses. Acta Materialia, 2002, 50, 305-314.	7.9	88
125	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. Scripta Materialia, 2007, 56, 605-608.	5.2	88
126	Production and mechanical properties of metallic glass-reinforced Al-based metal matrix composites. Journal of Materials Science, 2008, 43, 4518-4526.	3.7	88

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127	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.	5.6	88
128	Cooling Rate Evaluation for Bulk Amorphous Alloys from Eutectic Microstructures in Casting Processes. Materials Transactions, 2002, 43, 1670-1675.	1.2	87
129	Structural bulk metallic glasses with different length-scale of constituent phases. Intermetallics, 2002, 10, 1183-1190.	3.9	87
130	Brittle-to-Ductile Transition in Metallic Glass Nanowires. Nano Letters, 2016, 16, 4467-4471.	9.1	87
131	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.	5.9	87
132	Behavior of multiple shear bands in Zr-based bulk metallic glass. Materials Chemistry and Physics, 2005, 93, 174-177.	4.0	86
133	Influence of embedded-carbon nanotubes on the thermal properties of copper matrix nanocomposites processed by molecular-level mixing. Scripta Materialia, 2011, 64, 181-184.	5.2	86
134	Fatigue and fracture behavior of bulk metallic glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 3489-3498.	2.2	85
135	Ti-Cu-Ni shape memory bulk metallic glass composites. Acta Materialia, 2013, 61, 151-162.	7.9	84
136	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.	5.5	84
137	Wavy cleavage fracture of bulk metallic glass. Applied Physics Letters, 2006, 89, 251917.	3.3	83
138	Significant tensile ductility induced by cold rolling in Cu _{47.5} Zr _{47.5} Al ₅ bulk metallic glass. Intermetallics, 2011, 19, 1394-1398.	3.9	83
139	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.	5.6	83
140	Local atomic arrangements and their topology in Ti-Zr and Cu-Zr glassy and crystalline alloys. Acta Materialia, 2013, 61, 2509-2520.	7.9	83
141	Role of 1,3-Dioxolane and LiNO ₃ Addition on the Long Term Stability of Nanostructured Silicon/Carbon Anodes for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2016, 163, A557-A564.	2.9	83
142	Atomic-scale origin of shear band multiplication in heterogeneous metallic glasses. Scripta Materialia, 2020, 178, 57-61.	5.2	83
143	Fabrication and mechanical properties of Al-based metal matrix composites reinforced with Mg ₆₅ Cu ₂₀ Zn ₅ Y ₁₀ metallic glass particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 53-58.	5.6	82
144	Hybrid nanostructured aluminum alloy with super-high strength. NPG Asia Materials, 2015, 7, e229-e229.	7.9	82

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145	Cold-consolidation of ball-milled Fe-based amorphous ribbons by high pressure torsion. Scripta Materialia, 2004, 50, 1221-1225.	5.2	81
146	Microstructure and thermal expansion behavior of spray-deposited Al ⁵⁰ Si. Materials & Design, 2014, 57, 585-591.	5.1	81
147	Enhanced polysulphide redox reaction using a RuO ₂ nanoparticle-decorated mesoporous carbon as functional separator coating for advanced lithium-sulphur batteries. Chemical Communications, 2016, 52, 8134-8137.	4.1	81
148	Giant thermal expansion and ϵ -precipitation pathways in Ti-alloys. Nature Communications, 2017, 8, 1429.	12.8	81
149	Premature failure of an additively manufactured material. NPG Asia Materials, 2020, 12, .	7.9	81
150	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.	3.0	80
151	Tailoring of microstructure and mechanical properties of a Ti-based bulk metallic glass-forming alloy. Scripta Materialia, 2007, 57, 1101-1104.	5.2	78
152	Corrosion behaviour of Zr-based bulk glass-forming alloys containing Nb or Ti. Materials Letters, 2002, 57, 173-177.	2.6	77
153	Modeling deformation behavior of Cu-Zr-Al bulk metallic glass matrix composites. Applied Physics Letters, 2009, 95, .	3.3	77
154	Production of Porous β -Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. Materials, 2013, 6, 5700-5712.	2.9	77
155	Phase formation and thermal stability in Cu-Zr-Ti(Al) metallic glasses. Intermetallics, 2009, 17, 453-462.	3.9	76
156	Criteria for tensile plasticity in Cu-Zr-Al bulk metallic glasses. Acta Materialia, 2010, 58, 4883-4890.	7.9	76
157	Ductile bulk metallic glasses produced through designed heterogeneities. Scripta Materialia, 2011, 65, 815-818.	5.2	76
158	Interfacial tension, wetting and nucleation in Al-Bi and Al-Pb monotectic alloys. Acta Materialia, 2011, 59, 6880-6889.	7.9	76
159	Novel Approach for Alternating Current (AC)-Driven Organic Light-Emitting Devices. Advanced Functional Materials, 2012, 22, 210-217.	14.9	76
160	Phase formation and mechanical properties of Ti-Cu-Ni-Zr bulk metallic glass composites. Acta Materialia, 2014, 65, 259-269.	7.9	76
161	Formation of a bimodal eutectic structure in Ti-Fe-Sn alloys with enhanced plasticity. Applied Physics Letters, 2008, 93, .	3.3	75
162	Structural evolution of Cu-Zr metallic glasses under tension. Acta Materialia, 2009, 57, 4133-4139.	7.9	75

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163	High-mobility graphene on liquid p-block elements by ultra-low-loss CVD growth. Scientific Reports, 2013, 3, 2670.	3.3	75
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