

Ki Buem Kim

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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.

186
papers

3,892
citations

32
h-index

55
g-index

187
ext. papers

4,269
ext. citations

4.5
avg, IF

5.24
L-index

#	Paper	IF	Citations
186	"Work-Hardenable" ductile bulk metallic glass. <i>Physical Review Letters</i> , 2005 , 94, 205501	7.4	791
185	High strength ductile Cu-base metallic glass. <i>Intermetallics</i> , 2006 , 14, 876-881	3.5	118
184	Nanostructure-dendrite composites in the Fe-Zr binary alloy system exhibiting high strength and plasticity. <i>Scripta Materialia</i> , 2007 , 57, 1153-1156	5.6	100
183	High strength ultrafine eutectic Fe-Nb-Al composites with enhanced plasticity. <i>Intermetallics</i> , 2008 , 16, 642-650	3.5	89
182	Microscopic deformation mechanism of a Ti66.1Nb13.9Ni4.8Cu8Sn7.2 nanostructure-dendrite composite. <i>Acta Materialia</i> , 2006 , 54, 3701-3711	8.4	89
181	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. <i>Journal of Materials Research</i> , 2009 , 24, 2605-2609	2.5	85
180	Deformation-induced rotational eutectic colonies containing length-scale heterogeneity in an ultrafine eutectic Fe ₈₃ Ti ₇ Zr ₆ B ₄ alloy. <i>Applied Physics Letters</i> , 2007 , 91, 131907	3.4	66
179	Development of lightweight MgLiAl alloys with high specific strength. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 116-120	5.7	65
178	Interfacial reaction during the fabrication of Ni ₆₀ Nb ₄₀ metallic glass particles-reinforced Al based MMCs. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 444, 206-213	5.3	64
177	Amorphization in mechanically alloyed (Ti, Zr, Nb) _x (Cu, Ni) _{1-x} Al equiatomic alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 428, 157-163	5.7	60
176	Propagation of shear bands and accommodation of shear strain in the Fe ₅₆ Nb ₄ Al ₄₀ ultrafine eutectic-dendrite composite. <i>Applied Physics Letters</i> , 2008 , 92, 091910	3.4	57
175	Investigation of structure and mechanical properties of TiZrHfNiCuCo high entropy alloy thin films synthesized by magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 834-841	5.7	53
174	Novel Multicomponent Amorphous Alloys. <i>Materials Science Forum</i> , 2002 , 386-388, 27-32	0.4	51
173	Spectroscopic studies and electrical properties of transparent conductive films fabricated by using surfactant-stabilized single-walled carbon nanotube suspensions. <i>Carbon</i> , 2011 , 49, 4301-4313	10.4	46
172	Multi-phase Al-based ultrafine composite with multi-scale microstructure. <i>Intermetallics</i> , 2010 , 18, 1829-1833	3.9	45
171	Mechano-chemical synthesis and characterization of microstructure and magnetic properties of nanocrystalline Mn _{1-x} Zn _x Fe ₂ O ₄ . <i>Journal of Alloys and Compounds</i> , 2006 , 424, 13-20	5.7	45
170	Metallic glass formation in multicomponent (Ti, Zr, Hf, Nb) _x (Ni, Cu, Ag) _{1-x} Al alloys. <i>Journal of Non-Crystalline Solids</i> , 2003 , 317, 17-22	3.9	43

169	Enhanced proton conductivity of yttrium-doped barium zirconate with sinterability in protonic ceramic fuel cells. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 435-444	5.7	42
168	Gradual martensitic transformation of B2 phase on TiCu-based bulk metallic glass composite during deformation. <i>Intermetallics</i> , 2016 , 75, 1-7	3.5	40
167	Degradation pattern prediction of a polymer electrolyte membrane fuel cell stack with series reliability structure via durability data of single cells. <i>Applied Energy</i> , 2014 , 131, 48-55	10.7	40
166	Chemical evolution-induced strengthening on AlCoCrNi dual-phase high-entropy alloy with high specific strength. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 828-834	5.7	40
165	Bulk ultra-fine eutectic structure in TiBeB ₂ alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 28-31	5.7	39
164	Electrochemical properties of dual phase neodymium-doped ceria alkali carbonate composite electrolytes in intermediate temperature. <i>Journal of Power Sources</i> , 2015 , 275, 563-572	8.9	38
163	Study of Graphene-based 2D-Heterostructure Device Fabricated by All-Dry Transfer Process. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3072-8	9.5	38
162	Understanding the relationship between microstructure and mechanical properties of AlCuSi ultrafine eutectic composites. <i>Materials and Design</i> , 2016 , 92, 1038-1045	8.1	37
161	Influence of Zr content on phase formation, transition and mechanical behavior of Ni-Ti-Hf-Zr high temperature shape memory alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 77-85	5.7	37
160	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. <i>Scientific Reports</i> , 2014 , 4, 6500	4.9	36
159	Work-hardening and plastic deformation behavior of Ti-based bulk metallic glass composites with bimodal sized B2 particles. <i>Intermetallics</i> , 2015 , 62, 36-42	3.5	34
158	High strength NiZr binary ultrafine eutectic-dendrite composite with large plastic deformability. <i>Applied Physics Letters</i> , 2008 , 93, 031913	3.4	34
157	Phase evolution, microstructure and mechanical properties of equi-atomic substituted TiZrHfNiCu and TiZrHfNiCuM (M = Co, Nb) high-entropy alloys. <i>Metals and Materials International</i> , 2016 , 22, 551-556	2.4	33
156	Ti-base bulk nanostructure-dendrite composites: Microstructure and deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 24-29	5.3	32
155	Fe-based amorphous alloys as bipolar plates for PEM fuel cell. <i>Journal of Power Sources</i> , 2006 , 159, 34-37	3.9	32
154	Propagation of shear bands in a Cu _{47.5} Zr _{47.5} Al ₅ bulk metallic glass. <i>Journal of Materials Research</i> , 2008 , 23, 6-12	2.5	31
153	Effect of silicon on microstructure and mechanical properties of Cu-Fe alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 184-188	5.7	29
152	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

151	Formation of ductile ultrafine eutectic structure in TiFeSn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 737-740	5.3	29
150	Heterogeneous eutectic structure in TiFeSn alloys. <i>Intermetallics</i> , 2011 , 19, 536-540	3.5	27
149	Microstructural investigation of a deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure dendrite composite. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 106-109	5.7	27
148	Medium range ordering and its effect on plasticity of FeMnB ₂ Nb bulk metallic glass. <i>Philosophical Magazine</i> , 2010 , 90, 2619-2633	1.6	25
147	Influence of heterogeneities with different length scale on the plasticity of Fe-base ultrafine eutectic alloys. <i>Journal of Materials Research</i> , 2008 , 23, 2003-2008	2.5	25
146	Phase transformations in mechanically milled and annealed single-phase Al ₃ Mg ₂ . <i>Acta Materialia</i> , 2008 , 56, 1136-1143	8.4	25
145	Combinatorial Influence of Bimodal Size of B2 TiCu Compounds on Plasticity of Ti-Cu-Ni-Zr-Sn-Si Bulk Metallic Glass Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2376-2381	2.3	24
144	A study on the micro-evolution of mechanical property and microstructures in (Cu-30Fe)-2X alloys with the addition of minor alloying elements. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 341-345	5.7	24
143	Understanding microstructure and mechanical properties of (AlTa _{0.76}) CoCrFeNi _{2.1} eutectic high entropy alloys via thermo-physical parameters. <i>Journal of Materials Science and Technology</i> , 2020 , 57, 131-137	9.1	23
142	Flexible polymer dispersed liquid crystal film with graphene transparent electrodes. <i>Current Applied Physics</i> , 2016 , 16, 409-414	2.6	23
141	Improving the plasticity and strength of FeNb ultrafine eutectic composite. <i>Materials & Design</i> , 2015 , 76, 190-195		22
140	Crystallization, high temperature deformation behavior and solid-to-solid formability of a Ti-based bulk metallic glass within supercooled liquid region. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 270-278	5.7	22
139	Enhancement of plasticity in Ti-rich TiZrBeCuNiTa bulk glassy alloy via introducing the structural inhomogeneity. <i>Journal of Materials Research</i> , 2008 , 23, 2984-2989	2.5	22
138	Outstanding strengthening behavior and dynamic mechanical properties of in-situ AlAl ₃ Ni composites by Cu addition. <i>Composites Part B: Engineering</i> , 2020 , 189, 107891	10	21
137	Tailoring the corrosion behavior of Fe-based metallic glasses through inducing Nb-triggered netlike structure. <i>Corrosion Science</i> , 2019 , 147, 94-107	6.8	21
136	Plastic deformation behavior of FeCoBSiNbCr bulk metallic glasses under nanoindentation. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 415-419	5.7	20
135	Chemical heterogeneity-induced plasticity in TiFeBi ultrafine eutectic alloys. <i>Materials & Design</i> , 2014 , 60, 363-367		20
134	Crack evolution in bulk metallic glasses. <i>Journal of Applied Physics</i> , 2009 , 106, 103518	2.5	20

133	Influence of microstructural evolution on mechanical behavior of Fe ₈₀ Nb ₁₀ B ₁₀ ultrafine composites with a correlation to elastic modulus and hardness. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 886-891	5.7	19
132	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
131	High-current field emission of point-type carbon nanotube emitters on Ni-coated metal wires. <i>Carbon</i> , 2012 , 50, 2126-2133	10.4	19
130	Favorable microstructural modulation and enhancement of mechanical properties of Ti ₈₀ Fe ₁₀ Nb ₁₀ ultrafine composites. <i>Philosophical Magazine Letters</i> , 2009 , 89, 623-632	1	19
129	Formation of Metallic Glasses in Novel (Ti ₃₃ Zr ₃₃ Hf ₃₃) _{100-x-y} (Ni ₅₀ Cu ₅₀) _x Al _y Alloys. <i>Materials Transactions</i> , 2003 , 44, 411-413	1.3	19
128	Influence of silicon content on microstructure and mechanical properties of Ti-Cr-Si alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 53-57	5.7	19
127	Degradation analysis of anode-supported intermediate temperature-solid oxide fuel cells under various failure modes. <i>Journal of Power Sources</i> , 2015 , 276, 120-132	8.9	18
126	Crystallization behavior and microhardness evolution in Al ₉₂ Ni ₈ La _x amorphous alloys. <i>Journal of Materials Research</i> , 2005 , 20, 2927-2933	2.5	18
125	Low-cost beta titanium cast alloys with good tensile properties developed with addition of commercial material. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 271-276	5.7	16
124	Effect of Ca addition on the plastic deformation behavior of extruded Mg-11Li-3Al-1Sn-0.4Mn alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 821-826	5.7	16
123	Evolution of constitution, structure, and mechanical properties in Fe-Ti-Zr-B heterogeneous multiphase composites. <i>Journal of Materials Research</i> , 2011 , 26, 365-371	2.5	16
122	Modification of Oxygen-Ionic Transport Barrier of BaCo _{0.4} Zr _{0.1} Fe _{0.4} Y _{0.1} O ₃ Steam (Air) Electrode by Impregnating Samarium-Doped Ceria Nanoparticles for Proton-Conducting Reversible Solid Oxide Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F746-F754	3.9	15
121	Martensitic transformation in a B ₂ -containing CuZr-based BMG composite revealed by in situ neutron diffraction. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 714-721	5.7	15
120	Sn effect on microstructure and mechanical properties of ultrafine eutectic Ti ₈₀ Fe ₁₀ Sn alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 44-46	5.7	15
119	Mechanical properties of large-scale Mg ₇₀ Ti ₃₀ ultrafine eutectic composites. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 135-139	5.7	15
118	Fabrication of a bulk icosahedral material through mechanical alloying of the powder mixture Ti _{41.5} Zr _{41.5} Ni ₁₇ . <i>Materials Letters</i> , 2002 , 52, 75-79	3.3	15
117	Effect of boron addition on thermal and mechanical properties of Co-Cr-Mo-C(B) glass-forming alloys. <i>Intermetallics</i> , 2018 , 99, 1-7	3.5	15
116	Microstructure and mechanical properties of the as-cast and warm rolled Mg-9Li-x(Al-Si)-yTi alloys with x=1, 3, 5 and y=0.05wt.%. <i>Journal of Alloys and Compounds</i> , 2017 , 711, 243-249	5.7	14

115	Characterization and deformation behavior of Ti hybrid compacts with solid-to-porous gradient structure. <i>Materials & Design</i> , 2014 , 60, 66-71		14
114	Influence and mitigation methods of reaction intermediates on cell performance in direct methanol fuel cell system. <i>Journal of Power Sources</i> , 2011 , 196, 5446-5452	8.9	14
113	Role of heterogeneity on deformation behavior of bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 233-236	5.7	14
112	Microstructural Modulations Enhance the Mechanical Properties in AlCu(Si, Ga) Ultrafine Composites. <i>Advanced Engineering Materials</i> , 2010 , 12, 1137-1141	3.5	14
111	Optimization of mechanical properties of TiBeSn alloys by controlling heterogeneous eutectic structure. <i>Intermetallics</i> , 2012 , 23, 27-31	3.5	13
110	High strength porous TiAlV foams synthesized by solid state powder processing. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 105404	3	13
109	Formation of icosahedral phase in an Al ₉₃ Fe ₃ Cr ₂ Ti ₂ bulk alloy. <i>Journal of Alloys and Compounds</i> , 2007 , 436, L1-L4	5.7	13
108	Structural and Mechanical Properties of AlCoCrNi High Entropy Nitride Films: Influence of Process Pressure. <i>Coatings</i> , 2020 , 10, 10	2.9	13
107	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
106	Influence of spherical particles and interfacial stress distribution on viscous flow behavior of Ti-Cu-Ni-Zr-Sn bulk metallic glass composites. <i>Intermetallics</i> , 2017 , 91, 90-94	3.5	12
105	Post-mortem analysis of a long-term tested proton exchange membrane fuel cell stack under low cathode humidification conditions. <i>Journal of Power Sources</i> , 2014 , 253, 90-97	8.9	12
104	Heterogeneous duplex structured TiSnMo alloys with high strength and large plastic deformability. <i>Journal of Alloys and Compounds</i> , 2013 , 574, 546-551	5.7	12
103	Consolidation of mechanical alloyed Ti _{7.5} at.% Si powder mixture using an electro-discharge technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 467, 89-92	5.3	12
102	Hydrogen-induced amorphization and embrittlement resistance in Ti-based in situ composite with bcc-phase in an amorphous matrix. <i>Journal of Materials Research</i> , 2007 , 22, 428-436	2.5	12
101	Development of High Strength NiCuZrTiSiSn In-Situ Bulk Metallic Glass Composites Reinforced by Hard B2 Phase. <i>Metals and Materials International</i> , 2018 , 24, 241-247	2.4	11
100	Toughening mechanisms of a Ti-based nanostructured composite containing ductile dendrites. <i>International Journal of Materials Research</i> , 2005 , 96, 675-680		11
99	Nano-scale structural evolution of quaternary AlCrFeNi based high entropy alloys by the addition of specific minor elements and its effect on mechanical characteristics. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 159217	5.7	11
98	Structure modification and recovery of amorphous Fe _{73.5} Si _{13.5} B ₉ Nb ₃ Cu ₁ magnetic ribbons after autoclave treatment: SAXS and thermodynamic analysis. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 118-126	9.1	11

97	Enhancing Corrosion and Wear Resistance of AA6061 by Friction Stir Processing with FeSiB Glass Particles. <i>Materials</i> , 2015 , 8, 5084-5097	3.5	10
96	Solid-state phase transformation-induced heterogeneous duplex structure in TiB ₂ /Fe alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 515, 86-89	5.7	10
95	Necking mechanisms on porous metallic glass and W compacts using electro-discharge sintering. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S78-S82	5.7	10
94	Formation of bimodal eutectic structure in Ti _{63.5} Fe _{30.5} Sn ₆ and Mg ₇₂ Cu ₅ Zn ₂₃ alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S353-S356	5.7	10
93	Microstructural evolution and mechanical properties of Mg ₇₂ Cu ₅ Zn ultrafine eutectic composites. <i>Journal of Materials Research</i> , 2009 , 24, 2892-2898	2.5	10
92	Structural relaxation and glass transition behavior of novel (Ti ₃₃ Zr ₃₃ Hf ₃₃) ₅₀ (Ni ₅₀ Cu ₅₀) ₄₀ Al ₁₀ alloy developed by equiatomic substitution. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 3338-3341	3.9	10
91	Influence of Nb on microstructure and mechanical properties of Ti-Sn ultrafine eutectic alloy. <i>Metals and Materials International</i> , 2017 , 23, 20-25	2.4	9
90	Crystallization and phase transformation behavior of TiCu-based bulk metallic glass composite with B ₂ particles. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 87-91	5.7	9
89	Designing of Fe-containing (Ti ₃₃ Zr ₃₃ Hf ₃₃)-(Ni ₅₀ Cu ₅₀) high entropy alloys developed by equiatomic substitution: phase evolution and mechanical properties. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 7732-7739	5.5	9
88	Field emission characteristics of carbon nanotube films fabricated on a metal mesh by filtration. <i>Journal of Alloys and Compounds</i> , 2012 , 521, 126-133	5.7	9
87	Compositional tuning-induced permanent color adjustment and mechanical properties: Binary Cu-Mg colored metallic system. <i>Materials and Design</i> , 2019 , 175, 107814	8.1	8
86	Formation of porous metallic glass compacts by electro-discharge sintering. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S184-S187	5.7	8
85	Microstructural modulation of TiFe ₂ /V ultrafine eutectic alloys with enhanced mechanical properties. <i>Journal of Alloys and Compounds</i> , 2010 , 491, 178-181	5.7	8
84	Role of tri-capped triangular prism (TTP) polyhedra in formation and destabilization of Fe ₇₃ B glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2015 , 425, 67-73	3.9	7
83	Thermally-triggered Dual In-situ Self-healing Metallic Materials. <i>Scientific Reports</i> , 2018 , 8, 2120	4.9	7
82	Effect of solubility on strengthening of Ag ₇₀ Cu ultrafine eutectic composites. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9015-9018	5.7	7
81	Mechanical behavior of metallic glass reinforced nanostructured tungsten composites synthesized by spark plasma sintering. <i>Intermetallics</i> , 2010 , 18, 2009-2013	3.5	7
80	Stable operation of air-blowing direct methanol fuel cell stacks through uniform oxidant supply by varying fluid flow fixtures and developing the flow sensor. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9205-9215	6.7	7

79	Microstructure and mechanical properties of metallic glass/metallic glass composites. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 286-288	5.7	7
78	Microstructural comparison of Zr _{73.5} Nb ₉ Cu ₇ Ni ₁ Al _{9.5} nanostructure-dendrite composites produced by different casting techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 747-751	5.3	7
77	Effect of cooling rate on microstructure and glass-forming ability of a (Ti ₃₃ Zr ₃₃ Hf ₃₃) ₇₀ (Ni ₅₀ Cu ₅₀) ₂₀ Al ₁₀ alloy. <i>Intermetallics</i> , 2006 , 14, 972-977	3.5	7
76	Effect of Cu on local amorphization in bulk Ni ₄₀ Ti ₄₀ Zr ₂₀ Si alloys during solidification. <i>Acta Materialia</i> , 2006 , 54, 3141-3150	8.4	7
75	Relationship between phase stability and mechanical properties on near/metastable B2-type Ti ₄₀ Zr ₄₀ (Mn) cast alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153516	5.7	7
74	Studies on directly grown few layer graphene processed using tape-peeling method. <i>Carbon</i> , 2020 , 158, 749-755	10.4	7
73	Grain refinement to improve thermoelectric and mechanical performance in n-type Bi ₂ Te _{2.7} Se _{0.3} alloys. <i>Materials Chemistry and Physics</i> , 2020 , 256, 123699	4.4	7
72	Understanding the microstructure and mechanical properties of Ta Al _{0.7} CoCrFeNi _{2.1} eutectic high entropy composites: Multi-scale deformation mechanism analysis. <i>Composites Part B: Engineering</i> , 2021 , 214, 108750	10	7
71	Investigation on the Relationship Between Transition Energy and the Color Change of Cu ₂ N Alloys. <i>Metals and Materials International</i> , 2019 , 25, 539-545	2.4	7
70	Investigation of phase-transformation path in TiZrHf(VNbTa) _x refractory high-entropy alloys and its effect on mechanical property. <i>Journal of Alloys and Compounds</i> , 2021 , 886, 161187	5.7	7
69	Mechanical properties and microstructural change in (Cu ₈₀ Be) ₂₀ immiscible metal matrix composite: Effect of Mg on secondary phase separation. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15989-15995	5.5	6
68	Synthesis of bulk amorphous composites with three amorphous phases by consolidation of milled amorphous powders. <i>Intermetallics</i> , 2010 , 18, 2019-2023	3.5	6
67	Devitrification of nano-scale icosahedral phase in multicomponent alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 983-986	5.3	6
66	Metallic glass formation in the Cu ₄₇ Ti ₃₃ Zr ₁₁ Ni ₈ Si ₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 444, 257-264	5.3	6
65	Enhanced thermal stability of the devitrified nanoscale icosahedral phase in novel multicomponent amorphous alloys. <i>Journal of Materials Research</i> , 2006 , 21, 823-831	2.5	6
64	Novel Multicomponent Alloys. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005 , 24-25, 1-6	0.2	6
63	Ozone Electrical Trimming of Carbon Nanotubes to Improve Their Field-Emission Lifetime and Uniformity. <i>Journal of the Korean Physical Society</i> , 2009 , 54, 185-189	0.6	6
62	Phase Transformation and Work-hardening Behavior of Ti-based Bulk Metallic Glass Composite. <i>Applied Microscopy</i> , 2015 , 45, 37-43	1.1	6

61	Designing porous metallic glass compact enclosed with surface iron oxides. <i>Journal of Alloys and Compounds</i> , 2015 , 635, 233-237	5.7	5
60	Thermal analysis of directional pressure annealed Fe ₇₈ Si ₉ B ₁₃ amorphous ribbons. <i>Thermochimica Acta</i> , 2018 , 661, 67-77	2.9	5
59	High-speed atomic force microscopy with phase-detection. <i>Current Applied Physics</i> , 2012 , 12, 989-994	2.6	5
58	Microstructure and mechanical properties of Fe ₈₀ (Cu, Al) heterostructured ultrafine composites. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S367-S370	5.7	5
57	FABRICATION OF POROUS Ti- AND W-COMPACTS BY ELECTRO-DISCHARGE-SINTERING PROCESS. <i>Surface Review and Letters</i> , 2010 , 17, 245-250	1.1	5
56	Effect of micro and nanoparticle inorganic fillers on the field emission characteristics of photosensitive carbon nanotube pastes. <i>Applied Surface Science</i> , 2010 , 256, 2636-2642	6.7	5
55	Formation of reactive layers in brazed Ti and Cu using a melt-spun Zr _{41.2} Ti _{13.8} Ni _{10.0} Cu _{12.5} Be _{22.5} alloy. <i>Materials Letters</i> , 2008 , 62, 4483-4485	3.3	5
54	Glass Forming Ability and Crystallization Behaviour of New Multicomponent (Ti ₃₃ Zr ₃₃ Hf ₃₃) ₆₀ (Ni ₅₀ Cu ₅₀) ₂₀ Al ₂₀ Alloy Developed by Equiatomic Substitution. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2003 , 15-16, 143-148	0.2	5
53	Structural evolution of the Ti ₇₀ Ni ₁₅ Al ₁₅ powders prepared by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 300, 148-152	5.3	5
52	Novel Multicomponent Amorphous Alloys. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2002 , 13, 27-32	0.2	5
51	Effect of Metallic Glass Particle Size on the Contact Resistance of Ag/Metallic Glass Electrode. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2443-2448	2.3	4
50	Influence of N ₂ Gas Flow Ratio and Working Pressure on Amorphous Mo ₅₀ Bi ₅₀ Coating during Magnetron Sputtering. <i>Coatings</i> , 2020 , 10, 34	2.9	4
49	Effects of Co on the microstructures and mechanical properties of Ti ₅₀ Cu ₅₀ /x Co x alloys (x = 0-5 at.%). <i>Philosophical Magazine Letters</i> , 2010 , 90, 43-50	1	4
48	Effect of Si on microstructure and mechanical properties of Fe-based ultrafine eutectic composites. <i>Intermetallics</i> , 2010 , 18, 1856-1859	3.5	4
47	Crystallization Behaviour of Novel(Ti ₃₃ Zr ₃₃ Hf ₃₃) _{100-x} (Ni ₅₀ Cu ₅₀) _x Alloys with X=48 to 55. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005 , 24-25, 657-660	0.2	4
46	Crystallization Kinetics and Thermo-Mechanical Behavior on Supercooled Liquid Region of Ti ₄₀ Ni ₄₀ Zr ₁₀ Bi ₁₀ Bulk Metallic Glass. <i>Science of Advanced Materials</i> , 2016 , 8, 1989-1994	2.3	4
45	Thermal Stability, Mechanical Properties and Magnetic Properties of Fe-based Amorphous Ribbons with the Addition of Mo and Nb. <i>Journal of Magnetism</i> , 2013 , 18, 395-399	1.9	4
44	Developing high-strength ferritic alloys reinforced by combination of hierarchical and laves precipitates. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 158162	5.7	4

43	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
42	Development of coloring alloys: Color design for lightweight Al-Mg-Si alloys. <i>Materials and Design</i> , 2021 , 200, 109449	8.1	4
41	Mechanical, deformation and fracture behaviors of bulk metallic glass composites reinforced by spherical B2 particles. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 704-710	3.6	4
40	Stress-induced transformation behavior in near-eutectic (AlNi ₂) ₇₀ -Co ₃₀ Cr medium entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161995	5.7	4
39	Mechanically stable tuning fork sensor with high quality factor for the atomic force microscope. <i>Scanning</i> , 2014 , 36, 632-9	1.6	3
38	Effect of martensitic β phase on mechanical properties of Ti _{100-x} Cox alloys with x=5, 7 and 9. <i>Intermetallics</i> , 2010 , 18, 725-729	3.5	3
37	Formation of deformation-induced bimodal grain structure of a high strength Ti ₉₃ Co ₇ alloy with enhancing plasticity. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 032002	3	3
36	Formation of nano-scale β phase in arc-melted micron-scale dendrite reinforced Zr _{73.5} Nb ₉ Cu ₇ Ni ₁ Al _{9.5} ultrafine composite during heat treatment. <i>Intermetallics</i> , 2008 , 16, 538-543	3.5	3
35	Influence of additional elements on the development of nanoscale heterogeneities in (TiCu)-based bulk metallic glasses with enhanced ductility. <i>Journal of Materials Research</i> , 2007 , 22, 2223-2229	2.5	3
34	Formation of nanocrystals in Ti ₇₈ Fe ₁₅ Si ₇ amorphous alloy with a wide supercooled liquid region. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 366, 421-425	5.3	3
33	Formation of in-situ nanoscale Ag particles in (Ti _{0.33} Zr _{0.33} Hf _{0.33}) ₄₀ (Ni _{0.33} Cu _{0.33} Ag _{0.33}) ₅₀ Al ₁₀ alloy with wide supercooled liquid region. <i>Materials Letters</i> , 2005 , 59, 1117-1120	3.3	3
32	Development of coherent-precipitate-hardened high-entropy alloys with hierarchical NiAl/Ni ₂ TiAl precipitates in CrMnFeCoNiAl _x Ti _y alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141763	5.3	3
31	Beyond strength-ductility trade-off: 3D interconnected heterostructured composites by liquid metal dealloying. <i>Composites Part B: Engineering</i> , 2021 , 225, 109266	10	3
30	Design of nano-scale multilayered nitride hard coatings deposited by arc ion plating process: Microstructural and mechanical characterization. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 572-581	5.5	3
29	Enhancement of mechanical properties in a Fe ₈₁ Nb ₉ B ₁₀ ultrafine-eutectic composite with in-situ polygonal pro-eutectic and encapsulating eutectic structure. <i>Journal of Alloys and Compounds</i> , 2015 , 643, S204-S208	5.7	2
28	Carbide formation in electric-discharge-sintered Ti ₃ Al compact caused by steric acid in ball-milled Ti and Al powder mixture. <i>Ceramics International</i> , 2018 , 44, 19771-19778	5.1	2
27	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
26	Decomposition of icosahedral phase in Ti ₅₂ Zr ₂₈ Ni ₂₀ powder during electro-discharge sintering. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S302-S305	5.7	2

25	Effect of Nb on microstructure and mechanical properties of ultrafine eutectic Fe ₈₀ Ni ₁₅ Si ₅ composites. <i>Journal of Alloys and Compounds</i> , 2010 , 504, S487-S490	5.7	2
24	Real-time atomic force microscopy in lubrication condition. <i>Ultramicroscopy</i> , 2010 , 110, 826-30	3.1	2
23	Influence of hetero-duplex structure on mechanical properties of Mg ₇₀ Al ₁₀ /Cu ₂₀ Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 371-378	5.3	2
22	Deformation mechanisms of a bimodal eutectic Mg ₇₂ Cu ₅ Zn ₂₃ ultrafine composite. <i>Materials Letters</i> , 2010 , 64, 534-536	3.3	2
21	Ti oxynitriding of microporous Ti ₆₀ Al ₄₀ V compact by electrodischarge sintering in an N ₂ atmosphere. <i>Scripta Materialia</i> , 2007 , 57, 129-132	5.6	2
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19	Synthesis of High Strength Bulk Nanocrystalline Alloys Containing Remaining Amorphous Phase. <i>Journal of Metastable and Nanocrystalline Materials</i> , 1999 , 1, 1-8	0.2	2
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17	Encapsulation of a gradient Al ₂ O ₃ layer on hierarchical structured substrate via two-step hybrid processes. <i>Materials and Design</i> , 2019 , 167, 107616	8.1	2
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14	DEVELOPMENT OF HIGH STRENGTH Mg-Cu-Zn ULTRAFINE EUTECTIC COMPOSITES WITH ENHANCED PLASTICITY. <i>International Journal of Modern Physics B</i> , 2009 , 23, 947-952	1.1	1
13	Deformation and fracture of Ti-base nanostructured composite. <i>International Journal of Materials Research</i> , 2008 , 99, 985-990	0.5	1
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11	Ultrafine shape memory alloys synthesized using a metastable metallic glass precursor with polymorphic crystallization. <i>Applied Materials Today</i> , 2021 , 22, 100961	6.6	1
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9	Cryo-Casting for Controlled Decomposition of Cu ₄₀ Zr ₄₀ Al Bulk Metallic Glass into Nanomaterials: Implications for Design Optimization. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7771-7780	5.6	1
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