Ki Buem Kim

List of Publications by Year in Descending Order

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	Fabrication of ultrafine powder using processing control agent, and investigation of its effect on microstructure and thermoelectric properties of p-type (Bi, Sb)2Te3 alloys. *Advanced Powder Technology*, **2022**, 33, 103386	4.6	0
185	Nanocrystalline single-phase high-entropy alloy synthesized by using intermetallic compound type (TiZrHf)-(NiCuCo) high-entropy metallic glass precursor. *Scripta Materialia*, **2022**, 209, 114391	5.6	1
184	Stress-induced transformation behavior in near-eutectic (AlNi2)70-Co30Cr medium entropy alloys. *Journal of Alloys and Compounds*, **2022**, 891, 161995	5.7	4
183	Formation of photo-reactive heterostructure from a multicomponent amorphous alloy with atomically random distribution. *Journal of Materials Science and Technology*, **2021**, 109, 245-245	9.1	0
182	Hierarchical heterostructured FeCr(Mg,Mg2Ni) composite with 3D interconnected and lamellar structures synthesized by liquid metal dealloying. *Journal of Materials Research and Technology*, **2021**, 15, 4573-4579	5.5	0
181	Developing high-strength ferritic alloys reinforced by combination of hierarchical and laves precipitates. *Journal of Alloys and Compounds*, **2021**, 856, 158162	5.7	4
180	Ultrafine shape memory alloys synthesized using a metastable metallic glass precursor with polymorphic crystallization. *Applied Materials Today*, **2021**, 22, 100961	6.6	1
179	Development of Precipitation-Strengthened AlNbTiVM (M = Co, Ni) Light-Weight Refractory High-Entropy Alloys. *Materials*, **2021**, 14,	3.5	1
178	Understanding the microstructure and mechanical properties of Ta Al0.7CoCrFeNi2.1 eutectic high entropy composites: Multi-scale deformation mechanism analysis. *Composites Part B: Engineering*, **2021**, 214, 108750	10	7
177	Nano-scale structural evolution of quaternary AlCrFeNi based high entropy alloys by the addition of specific minor elements and its effect on mechanical characteristics. *Journal of Alloys and Compounds*, **2021**, 868, 159217	5.7	11
176	Cryo-Casting for Controlled Decomposition of Cu2Zr4Al Bulk Metallic Glass into Nanomaterials: Implications for Design Optimization. *ACS Applied Nano Materials*, **2021**, 4, 7771-7780	5.6	1
175	Investigation of graphene dispersion on thermoelectric, magnetic, and mechanical properties of p-type Bi0.5Sb1.5Te3 alloys. *Materials Chemistry and Physics*, **2021**, 266, 124512	4.4	2
174	Development of coloring alloys: Color design for lightweight Al-Mg-Si alloys. *Materials and Design*, **2021**, 200, 109449	8.1	4
173	Development of coherent-precipitate-hardened high-entropy alloys with hierarchical NiAl/Ni2TiAl precipitates in CrMnFeCoNiAlxTiy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 823, 141763	5.3	3
172	Formation of inhomogeneous micro-scale pores attributed ultralow lat and concurrent enhancement of thermoelectric performance in p-type Bi0.5Sb1.5Te3 alloys. *Journal of Alloys and Compounds*, **2021**, 881, 160499	5.7	2
171	Beyond strength-ductility trade-off: 3D interconnected heterostructured composites by liquid metal dealloying. *Composites Part B: Engineering*, **2021**, 225, 109266	10	3
170	Design of nano-scale multilayered nitride hard coatings deposited by arc ion plating process: Microstructural and mechanical characterization. *Journal of Materials Research and Technology*, **2021**, 15, 572-581	5.5	3

169	Investigation of phase-transformation path in TiZrHf(VNbTa)x refractory high-entropy alloys and its effect on mechanical property. *Journal of Alloys and Compounds*, **2021**, 886, 161187	5.7	7
168	Mechanical properties and microstructural change in (CuFe) immiscible metal matrix composite: Effect of Mg on secondary phase separation. *Journal of Materials Research and Technology*, **2020**, 9, 15989-15995	5.5	6
167	Understanding microstructure and mechanical properties of (AlTa0.76) CoCrFeNi2.1 eutectic high entropy alloys via thermo-physical parameters. *Journal of Materials Science and Technology*, **2020**, 57, 131-137	9.1	23
166	Designing of Fe-containing (Ti33Zr33Hf33)-(Ni50Cu50) high entropy alloys developed by equiatomic substitution: phase evolution and mechanical properties. *Journal of Materials Research and Technology*, **2020**, 9, 7732-7739	5.5	9
165	Influence of N2 Gas Flow Ratio and Working Pressure on Amorphous MoSiN Coating during Magnetron Sputtering. *Coatings*, **2020**, 10, 34	2.9	4
164	Outstanding strengthening behavior and dynamic mechanical properties of in-situ Al/Al3Ni composites by Cu addition. *Composites Part B: Engineering*, **2020**, 189, 107891	10	21
163	Structural and Mechanical Properties of AlCoCrNi High Entropy Nitride Films: Influence of Process Pressure. *Coatings*, **2020**, 10, 10	2.9	13
162	Relationship between phase stability and mechanical properties on near/metastable type TiCr-(Mn) cast alloys. *Journal of Alloys and Compounds*, **2020**, 821, 153516	5.7	7
161	New para-magnetic (CoFeNi)50(CrMo)50-x(CB)x (x = 20, 25, 30) non-equiatomic high entropy metallic glasses with wide supercooled liquid region and excellent mechanical properties. *Journal of Materials Science and Technology*, **2020**, 43, 135-143	9.1	13
160	Studies on directly grown few layer graphene processed using tape-peeling method. *Carbon*, **2020**, 158, 749-755	10.4	7
159	Grain refinement to improve thermoelectric and mechanical performance in n-type Bi2Te2.7Se0.3 alloys. *Materials Chemistry and Physics*, **2020**, 256, 123699	4.4	7
158	Investigation of structure and mechanical properties of TiZrHfNiCuCo high entropy alloy thin films synthesized by magnetron sputtering. *Journal of Alloys and Compounds*, **2019**, 797, 834-841	5.7	53
157	Compositional tuning-induced permanent color adjustment and mechanical properties: Binary Cu-Mg colored metallic system. *Materials and Design*, **2019**, 175, 107814	8.1	8
156	Low-cost beta titanium cast alloys with good tensile properties developed with addition of commercial material. *Journal of Alloys and Compounds*, **2019**, 793, 271-276	5.7	16
155	Modification of Oxygen-Ionic Transport Barrier of BaCo0.4Zr0.1Fe0.4Y0.1O3 Steam (Air) Electrode by Impregnating Samarium-Doped Ceria Nanoparticles for Proton-Conducting Reversible Solid Oxide Cells. *Journal of the Electrochemical Society*, **2019**, 166, F746-F754	3.9	15
154	Influence of directional microstructure on mechanical properties in Al-based ultrafine bimodal lamellar structured alloy. *Material Design and Processing Communications*, **2019**, 1, e52	0.9	2
153	Encapsulation of a gradient Al2O3 layer on hierarchical structured substrate via two-step hybrid processes. *Materials and Design*, **2019**, 167, 107616	8.1	2
152	Structure modification and recovery of amorphous Fe73.5Si13.5B9Nb3Cu1 magnetic ribbons after autoclave treatment: SAXS and thermodynamic analysis. *Journal of Materials Science and Technology*, **2019**, 35, 118-126	9.1	11

151	Chemical evolution-induced strengthening on AlCoCrNi dual-phase high-entropy alloy with high specific strength. *Journal of Alloys and Compounds*, **2019**, 777, 828-834	5.7	40
150	Co-Cr-Mo-C-B metallic glasses with wide supercooled liquid region obtained by systematic adjustment of the metalloid ratio. *Journal of Non-Crystalline Solids*, **2019**, 505, 310-319	3.9	4
149	Tailoring the corrosion behavior of Fe-based metallic glasses through inducing Nb-triggered netlike structure. *Corrosion Science*, **2019**, 147, 94-107	6.8	21
148	A study on the micro-evolution of mechanical property and microstructures in (Cu-30Fe)-2X alloys with the addition of minor alloying elements. *Journal of Alloys and Compounds*, **2019**, 786, 341-345	5.7	24
147	Investigation on the Relationship Between Transition Energy and the Color Change of Cu□M Alloys. *Metals and Materials International*, **2019**, 25, 539-545	2.4	7
146	Development of High Strength Ni□Cu□Zr□Ti□Si□Sn In-Situ Bulk Metallic Glass Composites Reinforced by Hard B2 Phase. *Metals and Materials International*, **2018**, 24, 241-247	2.4	11
145	Thermally-triggered Dual In-situ Self-healing Metallic Materials. *Scientific Reports*, **2018**, 8, 2120	4.9	7
144	Thermal analysis of directional pressure annealed Fe78Si9B13 amorphous ribbons. *Thermochimica Acta*, **2018**, 661, 67-77	2.9	5
143	Microstructure and mechanical properties of hierarchical multi-phase composites based on Al-Ni-type intermetallic compounds in the Al-Ni-Cu-Si alloy system. *Journal of Alloys and Compounds* , **2018**, 749, 205-210	5.7	29
142	Carbide formation in electric-discharge-sintered Ti3Al compact caused by steric acid in ball-milled Ti and Al powder mixture. *Ceramics International*, **2018**, 44, 19771-19778	5.1	2
141	Cooperative deformation behavior between the shear band and boundary sliding of an Al-based nanostructure-dendrite composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 735, 81-88	5.3	19
140	Influence of silicon content on microstructure and mechanical properties of Ti-Cr-Si alloys. *Journal of Alloys and Compounds*, **2018**, 737, 53-57	5.7	19
139	Mechanical, deformation and fracture behaviors of bulk metallic glass composites reinforced by spherical B2 particles. *Progress in Natural Science: Materials International*, **2018**, 28, 704-710	3.6	4
138	Effect of boron addition on thermal and mechanical properties of Co-Cr-Mo-C-(B) glass-forming alloys. *Intermetallics*, **2018**, 99, 1-7	3.5	15
137	Influence of Nb on microstructure and mechanical properties of Ti-Sn ultrafine eutectic alloy. *Metals and Materials International*, **2017**, 23, 20-25	2.4	9
136	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□=□0.05□wt.%. *Journal of Alloys and Compounds*, **2017**, 711, 243-249	5.7	14
135	Effect of silicon on microstructure and mechanical properties of Cu-Fe alloys. *Journal of Alloys and Compounds*, **2017**, 707, 184-188	5.7	29
134	Crystallization and phase transformation behavior of TiCu-based bulk metallic glass composite with B2 particles. *Journal of Alloys and Compounds*, **2017**, 707, 87-91	5.7	9

133	Influence of spherical particles and interfacial stress distribution on viscous flow behavior of Ti-Cu-Ni-Zr-Sn bulk metallic glass composites. *Intermetallics*, **2017**, 91, 90-94	3.5	12
132	Martensitic transformation in a B2-containing CuZr-based BMG composite revealed by in situ neutron diffraction. *Journal of Alloys and Compounds*, **2017**, 723, 714-721	5.7	15
131	Influence of Zr content on phase formation, transition and mechanical behavior of Ni-Ti-Hf-Zr high temperature shape memory alloys. *Journal of Alloys and Compounds*, **2017**, 692, 77-85	5.7	37
130	Effect of Ca addition on the plastic deformation behavior of extruded Mg-11Li-3Al-1Sn-0.4Mn alloy. *Journal of Alloys and Compounds*, **2016**, 687, 821-826	5.7	16
129	Experimental data of inorganic gel based smart window using silica sol-gel process. *Data in Brief*, **2016**, 9, 716-722	1.2	
128	Gradual martensitic transformation of B2 phase on TiCu-based bulk metallic glass composite during deformation. *Intermetallics*, **2016**, 75, 1-7	3.5	40
127	Study of Graphene-based 2D-Heterostructure Device Fabricated by All-Dry Transfer Process. *ACS Applied Materials & Interfaces*, **2016**, 8, 3072-8	9.5	38
126	Flexible polymer dispersed liquid crystal film with graphene transparent electrodes. *Current Applied Physics*, **2016**, 16, 409-414	2.6	23
125	Crystallization, high temperature deformation behavior and solid-to-solid formability of a Ti-based bulk metallic glass within supercooled liquid region. *Journal of Alloys and Compounds*, **2016**, 663, 270-278	5.7	22
124	Understanding the relationship between microstructure and mechanical properties of AlCuSi ultrafine eutectic composites. *Materials and Design*, **2016**, 92, 1038-1045	8.1	37
123	Crystallization Kinetics and Thermo-Mechanical Behavior on Supercooled Liquid Region of TiCuNiZrSnSi Bulk Metallic Glass. *Science of Advanced Materials*, **2016**, 8, 1989-1994	2.3	4
122	Phase evolution, microstructure and mechanical properties of equi-atomic substituted TiZrHfNiCu and TiZrHfNiCuM (M = Co, Nb) high-entropy alloys. *Metals and Materials International*, **2016**, 22, 551-556	2.4	33
121	Development of lightweight MgLiAl alloys with high specific strength. *Journal of Alloys and Compounds*, **2016**, 680, 116-120	5.7	65
120	Enhancement of mechanical properties in a Fe81Nb9B10 ultrafine-eutectic composite with in-situ polygonal pro-eutectic and encapsulating eutectic structure. *Journal of Alloys and Compounds*, **2015**, 643, S204-S208	5.7	2
119	Role of tri-capped triangular prism (TTP) polyhedra in formation and destabilization of FeYB glassy alloys. *Journal of Non-Crystalline Solids*, **2015**, 425, 67-73	3.9	7
118	Designing porous metallic glass compact enclosed with surface iron oxides. *Journal of Alloys and Compounds*, **2015**, 635, 233-237	5.7	5
117	Improving the plasticity and strength of FeNbB ultrafine eutectic composite. *Materials & Design*, **2015**, 76, 190-195		22
116	Effect of Metallic Glass Particle Size on the Contact Resistance of Ag/Metallic Glass Electrode. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 2443-2448	2.3	4

115	Work-hardening and plastic deformation behavior of Ti-based bulk metallic glass composites with bimodal sized B2 particles. *Intermetallics*, **2015**, 62, 36-42	3.5	34
114	Enhanced proton conductivity of yttrium-doped barium zirconate with sinterability in protonic ceramic fuel cells. *Journal of Alloys and Compounds*, **2015**, 639, 435-444	5.7	42
113	Influence of microstructural evolution on mechanical behavior of FeNbB ultrafine composites with a correlation to elastic modulus and hardness. *Journal of Alloys and Compounds*, **2015**, 647, 886-891	5.7	19
112	Degradation analysis of anode-supported intermediate temperature-solid oxide fuel cells under various failure modes. *Journal of Power Sources*, **2015**, 276, 120-132	8.9	18
111	Electrochemical properties of dual phase neodymium-doped ceria alkali carbonate composite electrolytes in intermediate temperature. *Journal of Power Sources*, **2015**, 275, 563-572	8.9	38
110	Enhancing Corrosion and Wear Resistance of AA6061 by Friction Stir Processing with FeSiB Glass Particles. *Materials*, **2015**, 8, 5084-5097	3.5	10
109	Phase Transformation and Work-hardening Behavior of Ti-based Bulk Metallic Glass Composite. *Applied Microscopy*, **2015**, 45, 37-43	1.1	6
108	Plastic deformation behavior of FeCoBSiNbCr bulk metallic glasses under nanoindentation. *Journal of Alloys and Compounds*, **2014**, 587, 415-419	5.7	20
107	Degradation pattern prediction of a polymer electrolyte membrane fuel cell stack with series reliability structure via durability data of single cells. *Applied Energy*, **2014**, 131, 48-55	10.7	40
106	Combinatorial Influence of Bimodal Size of B2 TiCu Compounds on Plasticity of Ti-Cu-Ni-Zr-Sn-Si Bulk Metallic Glass Composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 2376-2381	2.3	24
105	Post-mortem analysis of a long-term tested proton exchange membrane fuel cell stack under low cathode humidification conditions. *Journal of Power Sources*, **2014**, 253, 90-97	8.9	12
104	Mechanically stable tuning fork sensor with high quality factor for the atomic force microscope. *Scanning*, **2014**, 36, 632-9	1.6	3
103	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. *Scientific Reports*, **2014**, 4, 6500	4.9	36
102	Chemical heterogeneity-induced plasticity in TiFeBi ultrafine eutectic alloys. *Materials & Design*, **2014**, 60, 363-367		20
101	Characterization and deformation behavior of Ti hybrid compacts with solid-to-porous gradient structure. *Materials & Design*, **2014**, 60, 66-71		14
100	Heterogeneous duplex structured TiSnMo alloys with high strength and large plastic deformability. *Journal of Alloys and Compounds*, **2013**, 574, 546-551	5.7	12
99	Thermal Stability, Mechanical Properties and Magnetic Properties of Fe-based Amorphous Ribbons with the Addition of Mo and Nb. *Journal of Magnetics*, **2013**, 18, 395-399	1.9	4
98	Optimization of mechanical properties of TiFeSn alloys by controlling heterogeneous eutectic structure. *Intermetallics*, **2012**, 23, 27-31	3.5	13

97	Solid-state phase transformation-induced heterogeneous duplex structure in TiSnFe alloys. *Journal of Alloys and Compounds*, **2012**, 515, 86-89	5.7	10
96	Field emission characteristics of carbon nanotube films fabricated on a metal mesh by filtration. *Journal of Alloys and Compounds*, **2012**, 521, 126-133	5.7	9
95	Necking mechanisms on porous metallic glass and W compacts using electro-discharge sintering. *Journal of Alloys and Compounds*, **2012**, 536, S78-S82	5.7	10
94	High-speed atomic force microscopy with phase-detection. *Current Applied Physics*, **2012**, 12, 989-994	2.6	5
93	High-current field emission of point-type carbon nanotube emitters on Ni-coated metal wires. *Carbon*, **2012**, 50, 2126-2133	10.4	19
92	Influence of Minor Element on Microstructure and Mechanical Properties of TiFe Ultrafine Eutectic Alloys. *Korean Journal of Materials Research*, **2012**, 22, 615-619	0.2	
91	Microstructure and mechanical properties of FeSiTiC(Cu, Al) heterostructured ultrafine composites. *Journal of Alloys and Compounds*, **2011**, 509, S367-S370	5.7	5
90	Formation of bimodal eutectic structure in Ti63.5Fe30.5Sn6 and Mg72Cu5Zn23 alloys. *Journal of Alloys and Compounds*, **2011**, 509, S353-S356	5.7	10
89	Formation of porous metallic glass compacts by electro-discharge sintering. *Journal of Alloys and Compounds*, **2011**, 509, S184-S187	5.7	8
88	Effect of solubility on strengthening of AgCu ultrafine eutectic composites. *Journal of Alloys and Compounds*, **2011**, 509, 9015-9018	5.7	7
87	Heterogeneous eutectic structure in TiFeSn alloys. *Intermetallics*, **2011**, 19, 536-540	3.5	27
86	Influence and mitigation methods of reaction intermediates on cell performance in direct methanol fuel cell system. *Journal of Power Sources*, **2011**, 196, 5446-5452	8.9	14
85	Evolution of constitution, structure, and mechanical properties in Fe-Ti-Zr-B heterogeneous multiphase composites. *Journal of Materials Research*, **2011**, 26, 365-371	2.5	16
84	Spectroscopic studies and electrical properties of transparent conductive films fabricated by using surfactant-stabilized single-walled carbon nanotube suspensions. *Carbon*, **2011**, 49, 4301-4313	10.4	46
83	Stable operation of air-blowing direct methanol fuel cell stacks through uniform oxidant supply by varying fluid flow fixtures and developing the flow sensor. *International Journal of Hydrogen Energy* , **2011**, 36, 9205-9215	6.7	7
82	TiCu-Based Bulk Metallic Glasses Exhibiting Large Compressive Plastic Strain . *Applied Mechanics and Materials*, **2011**, 138-139, 624-629	0.3	0
81	Medium range ordering and its effect on plasticity of FeMnBSiNb bulk metallic glass. *Philosophical Magazine*, **2010**, 90, 2619-2633	1.6	25
80	FABRICATION OF POROUS Ti- AND W-COMPACTS BY ELECTRO-DISCHARGE-SINTERING PROCESS. *Surface Review and Letters*, **2010**, 17, 245-250	1.1	5

79	Effects of Co on the microstructures and mechanical properties of Ti50Cu50 □x Co x alloys (x = 0□5 at.%). *Philosophical Magazine Letters*, **2010**, 90, 43-50	1	4
78	Effect of martensitic □phase on mechanical properties of Ti100□Cox alloys with x=5, 7 and 9. *Intermetallics*, **2010**, 18, 725-729	3.5	3
77	Multi-phase Al-based ultrafine composite with multi-scale microstructure. *Intermetallics*, **2010**, 18, 1829-1833	3.5	45
76	Effect of Si on microstructure and mechanical properties of Fe-based ultrafine eutectic composites. *Intermetallics*, **2010**, 18, 1856-1859	3.5	4
75	Mechanical behavior of metallic glass reinforced nanostructured tungsten composites synthesized by spark plasma sintering. *Intermetallics*, **2010**, 18, 2009-2013	3.5	7
74	Synthesis of bulk amorphous composites with three amorphous phases by consolidation of milled amorphous powders. *Intermetallics*, **2010**, 18, 2019-2023	3.5	6
73	Decomposition of icosahedral phase in Ti52Zr28Ni20 powder during electro-discharge sintering. *Journal of Alloys and Compounds*, **2010**, 504, S302-S305	5.7	2
72	Effect of Nb on microstructure and mechanical properties of ultrafine eutectic Fe□Ni□Si composites. *Journal of Alloys and Compounds*, **2010**, 504, S487-S490	5.7	2
71	Microstructural modulation of Ti□Fe□V ultrafine eutectic alloys with enhanced mechanical properties. *Journal of Alloys and Compounds*, **2010**, 491, 178-181	5.7	8
70	Real-time atomic force microscopy in lubrication condition. *Ultramicroscopy*, **2010**, 110, 826-30	3.1	2
69	Influence of hetero-duplex structure on mechanical properties of Mg□Al/Cu□Zn alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 528, 371-378	5.3	2
68	Deformation mechanisms of a bimodal eutectic Mg72Cu5Zn23 ultrafine composite. *Materials Letters*, **2010**, 64, 534-536	3.3	2
67	Microstructural Modulations Enhance the Mechanical Properties in Al□Cu□(Si, Ga) Ultrafine Composites. *Advanced Engineering Materials*, **2010**, 12, 1137-1141	3.5	14
66	Effect of micro and nanoparticle inorganic fillers on the field emission characteristics of photosensitive carbon nanotube pastes. *Applied Surface Science*, **2010**, 256, 2636-2642	6.7	5
65	TEM INVESTIGATION ON CRYSTALLIZATION BEHAVIOR OF A Fe68C10.5Si4.4B6.5P8.6Al2 BULK METALLIC GLASS. *International Journal of Modern Physics B*, **2009**, 23, 1223-1228	1.1	
64	MICROSTRUCTURAL EVOLUTION AND MECHANICAL PROERTIES OF Ti-(Ni, Fe)-Sn ULTRAFINE EUTECTIC ALLOYS. *International Journal of Modern Physics B*, **2009**, 23, 953-959	1.1	1
63	DEVELOPMENT OF HIGH STRENGTH Mg-Cu-Zn ULTRAFINE EUTECTIC COMPOSITES WITH ENHANCED PLASTICITY. *International Journal of Modern Physics B*, **2009**, 23, 947-952	1.1	1
62	Crack evolution in bulk metallic glasses. *Journal of Applied Physics*, **2009**, 106, 103518	2.5	20

61	Microstructural evolution and mechanical properties of MgCuZn ultrafine eutectic composites. *Journal of Materials Research*, **2009**, 24, 2892-2898	2.5	10
60	Sn effect on microstructure and mechanical properties of ultrafine eutectic TiFeSn alloys. *Journal of Alloys and Compounds*, **2009**, 483, 44-46	5.7	15
59	Microstructure and mechanical properties of metallic glass/metallic glass composites. *Journal of Alloys and Compounds*, **2009**, 483, 286-288	5.7	7
58	Mechanical properties of large-scale MgCuZn ultrafine eutectic composites. *Journal of Alloys and Compounds*, **2009**, 481, 135-139	5.7	15
57	Role of heterogeneity on deformation behavior of bulk metallic glasses. *Journal of Alloys and Compounds*, **2009**, 486, 233-236	5.7	14
56	Favorable microstructural modulation and enhancement of mechanical properties of TiFeNb ultrafine composites. *Philosophical Magazine Letters*, **2009**, 89, 623-632	1	19
55	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. *Journal of Materials Research*, **2009**, 24, 2605-2609	2.5	85
54	Formation of deformation-induced bimodal grain structure of a high strength Ti93Co7alloy with enhancing plasticity. *Journal Physics D: Applied Physics*, **2009**, 42, 032002	3	3
53	Ozone Electrical Trimming of Carbon Nanotubes to Improve Their Field-Emission Lifetime and Uniformity. *Journal of the Korean Physical Society*, **2009**, 54, 185-189	0.6	6
52	Formation of reactive layers in brazed Ti and Cu using a melt-spun Zr41.2Ti13.8Ni10.0Cu12.5Be22.5 alloy. *Materials Letters*, **2008**, 62, 4483-4485	3.3	5
51	Formation of nano-scale phase in arc-melted micron-scale dendrite reinforced Zr73.5Nb9Cu7Ni1Al9.5 ultrafine composite during heat treatment. *Intermetallics*, **2008**, 16, 538-543	3.5	3
50	High strength ultrafine eutectic FeNbAl composites with enhanced plasticity. *Intermetallics*, **2008** , 16, 642-650	3.5	89
49	Influence of heterogeneities with different length scale on the plasticity of Fe-base ultrafine eutectic alloys. *Journal of Materials Research*, **2008**, 23, 2003-2008	2.5	25
48	Propagation of shear bands in a Cu47.5Zr47.5Al5 bulk metallic glass. *Journal of Materials Research*, **2008**, 23, 6-12	2.5	31
47	High strength porous TiAlV foams synthesized by solid state powder processing. *Journal Physics D: Applied Physics*, **2008**, 41, 105404	3	13
46	Propagation of shear bands and accommodation of shear strain in the Fe56Nb4Al40 ultrafine eutectic-dendrite composite. *Applied Physics Letters*, **2008**, 92, 091910	3.4	57
45	High strength NiZr binary ultrafine eutectic-dendrite composite with large plastic deformability. *Applied Physics Letters*, **2008**, 93, 031913	3.4	34
44	Enhancement of plasticity in Ti-rich TiZrBeCuNiTa bulk glassy alloy via introducing the structural inhomogeneity. *Journal of Materials Research*, **2008**, 23, 2984-2989	2.5	22

43	Deformation and fracture of Ti-base nanostructured composite. *International Journal of Materials Research*, **2008**, 99, 985-990	0.5	1
42	Phase transformations in mechanically milled and annealed single-phase Al3Mg2. *Acta Materialia*, **2008**, 56, 1136-1143	8.4	25
41	Ti-base bulk nanostructure-dendrite composites: Microstructure and deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 24-29	5.3	32
40	Devitrification of nano-scale icosahedral phase in multicomponent alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 983-986	5.3	6
39	Microstructural comparison of Zr73.5Nb9Cu7Ni1Al9.5 nanostructure-dendrite composites produced by different casting techniques. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 747-751	5.3	7
38	Formation of ductile ultrafine eutectic structure in TiFeSn alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 737-740	5.3	29
37	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
36	Consolidation of mechanical alloyed Ti37.5at.% Si powder mixture using an electro-discharge technique. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 467, 89-92	5.3	12
35	Metallic glass formation in the Cu47Ti33Zr11Ni8Si1 alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 444, 257-264	5.3	6
34	Ti oxynitriding of microporous Ti6Al4V compact by electrodischarge sintering in an N2 atmosphere. *Scripta Materialia*, **2007**, 57, 129-132	5.6	2
33	Nanostructure dendrite composites in the Fe Zr binary alloy system exhibiting high strength and plasticity. *Scripta Materialia*, **2007**, 57, 1153-1156	5.6	100
32	Hydrogen-induced amorphization and embrittlement resistance in Ti-based in situ composite with bcc-phase in an amorphous matrix. *Journal of Materials Research*, **2007**, 22, 428-436	2.5	12
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30	Influence of additional elements on the development of nanoscale heterogeneities in (TiCu)-based bulk metallic glasses with enhanced ductility. *Journal of Materials Research*, **2007**, 22, 2223-2229	2.5	3
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