

Min Song

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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.

264
papers

5,253
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272
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6,717
ext. citations

4.6
avg, IF

6.34
L-index

#	Paper	IF	Citations
264	Structural evolutions of metallic materials processed by severe plastic deformation. <i>Materials Science and Engineering Reports</i> , 2018 , 133, 1-59	30.9	231
263	Effects of particle size and distribution on the mechanical properties of SiC reinforced AlCu alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1131-1137	5.3	136
262	BODIPY-based conjugated porous polymers for highly efficient volatile iodine capture. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6622-6629	13	111
261	Microstructure, mechanical and corrosion behaviors of AlCoCuFeNi-(Cr,Ti) high entropy alloys. <i>Materials and Design</i> , 2017 , 116, 438-447	8.1	111
260	Improving the mechanical properties of carbon nanotubes reinforced pure aluminum matrix composites by achieving non-equilibrium interface. <i>Materials and Design</i> , 2017 , 120, 56-65	8.1	110
259	Influence of high-temperature pre-precipitation on local corrosion behaviors of AlZnMg alloy. <i>Scripta Materialia</i> , 2007 , 56, 305-308	5.6	103
258	Exploring the size effects of Al ₄ C ₃ on the mechanical properties and thermal behaviors of Al-based composites reinforced by SiC and carbon nanotubes. <i>Carbon</i> , 2018 , 135, 224-235	10.4	89
257	Effect of extrusion and particle volume fraction on the mechanical properties of SiC reinforced AlCu alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6537-6542	5.3	89
256	Highly Fluoro-Substituted Covalent Organic Framework and Its Application in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42233-42240	9.5	87
255	Microstructures and mechanical properties of C-containing FeCoCrNi high-entropy alloy fabricated by selective laser melting. <i>Intermetallics</i> , 2018 , 94, 165-171	3.5	82
254	Effect of Particle Size on the Microstructures and Mechanical Properties of SiC-Reinforced Pure Aluminum Composites. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 1606-1612	1.6	79
253	Effects of volume fraction of SiC particles on mechanical properties of SiC/Al composites. <i>Transactions of Nonferrous Metals Society of China</i> , 2009 , 19, 1400-1404	3.3	76
252	Dynamic precipitation, microstructure and mechanical properties of Mg-5Zn-1Mn alloy sheets prepared by high strain-rate rolling. <i>Materials and Design</i> , 2016 , 100, 58-66	8.1	73
251	Atomic-scale understanding of stress-induced phase transformation in cold-rolled Hf. <i>Acta Materialia</i> , 2017 , 131, 271-279	8.4	72
250	Elastic modulus of phases in TiMo alloys. <i>Materials Characterization</i> , 2015 , 106, 302-307	3.9	71
249	Structure and Field-Emission Properties of Sub-Micrometer-Sized Tungsten-Whisker Arrays Fabricated by Vapor Deposition. <i>Advanced Materials</i> , 2009 , 21, 2387-2392	24	70
248	Effects of annealing on the hardness and elastic modulus of a Cu ₃₆ Zr ₄₈ Al ₈ Ag ₈ bulk metallic glass. <i>Materials & Design</i> , 2013 , 47, 706-710		66

247	Nanosized precipitates and dislocation networks reinforced C-containing CoCrFeNi high-entropy alloy fabricated by selective laser melting. <i>Materials Characterization</i> , 2018 , 144, 605-610	3.9	65
246	Microstructures and mechanical properties of carbon nanotubes reinforced pure aluminum composites synthesized by spark plasma sintering and hot rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 282-288	5.3	63
245	Enhanced mechanical properties of aluminum based composites reinforced by chemically oxidized carbon nanotubes. <i>Carbon</i> , 2018 , 139, 459-471	10.4	61
244	Large-scale synthesis and outstanding microwave absorption properties of carbon nanotubes coated by extremely small FeCo-C core-shell nanoparticles. <i>Carbon</i> , 2019 , 153, 52-61	10.4	60
243	Annealing-induced abnormal hardening in a cold rolled CrMnFeCoNi high entropy alloy. <i>Scripta Materialia</i> , 2019 , 162, 345-349	5.6	56
242	Fabrication, microstructure and mechanical properties of AlBe intermetallic particle reinforced Al-based composites. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 537-544	5.7	55
241	Powder metallurgical low-modulus Ti-Mg alloys for biomedical applications. <i>Materials Science and Engineering C</i> , 2015 , 56, 241-50	8.3	54
240	Fabrication of TiAl ₃ Ti core-shell structured particle reinforced Al based composite with promising mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 269-273	5.3	52
239	Effects of carbon on the microstructures and mechanical properties of FeCoCrNiMn high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 356-362	5.3	52
238	Mechanisms for deformation induced hexagonal close-packed structure to face-centered cubic structure transformation in zirconium. <i>Scripta Materialia</i> , 2017 , 132, 63-67	5.6	51
237	Modeling the hardness and yield strength evolutions of aluminum alloy with rod/needle-shaped precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 443, 172-177	5.3	47
236	Dual mechanisms of grain refinement in a FeCoCrNi high-entropy alloy processed by high-pressure torsion. <i>Scientific Reports</i> , 2017 , 7, 46720	4.9	46
235	Synthesis of Ti-Ta alloys with dual structure by incomplete diffusion between elemental powders. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 51, 302-12	4.1	45
234	Atomistic structure of Cu-containing η precipitates in an AlMgSiCu alloy. <i>Scripta Materialia</i> , 2014 , 75, 86-89	5.6	45
233	Effects of particle size on the fracture toughness of SiCp/Al alloy metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 601-607	5.3	45
232	Proposed mechanism of HCP \rightarrow FCC phase transition in titanium through first principles calculation and experiments. <i>Scientific Reports</i> , 2018 , 8, 1992	4.9	44
231	Plasmon enhancement effect in Au gold nanorods@Cu ₂ O core-shell nanostructures and their use in probing defect states. <i>Langmuir</i> , 2015 , 31, 1537-46	4	44
230	Effects of Cu and Al on the crystal structure and composition of η (MgZn ₂) phase in over-aged Al ₇₅ Mg ₂₅ Cu alloys. <i>Journal of Materials Science</i> , 2012 , 47, 5419-5427	4.3	41

229	Effects of Er on the microstructure and mechanical properties of an as-extruded AlMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 504, 183-187	5.3	39
228	Nitrogen induced heterogeneous structures overcome strength-ductility trade-off in an additively manufactured high-entropy alloy. <i>Applied Materials Today</i> , 2020 , 18, 100498	6.6	39
227	Effects of the enhanced heat treatment on the mechanical properties and stress corrosion behavior of an AlZnMg alloy. <i>Journal of Materials Science</i> , 2008 , 43, 5265-5273	4.3	38
226	Precipitation sequence of an aged Al-Mg-Si alloy. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2010 , 46, 171-180	1	36
225	Effect of VC and NbC additions on microstructure and properties of ultrafine WC-10Co cemented carbides. <i>Transactions of Nonferrous Metals Society of China</i> , 2009 , 19, 1520-1525	3.3	36
224	Ameliorated mechanical and thermal properties of SiC reinforced Al matrix composites through hybridizing carbon nanotubes. <i>Materials Characterization</i> , 2018 , 136, 272-280	3.9	35
223	Hot deformation behavior and microstructural evolution of Ag-containing 2519 aluminum alloy. <i>Materials & Design</i> , 2010 , 31, 2171-2176		35
222	Quantified contribution of θ and θ' precipitates to the strengthening of an aged AlMgSi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138776	5.3	35
221	Amorphization at twin-twin intersected region in FeCoCrNi high-entropy alloy subjected to high-pressure torsion. <i>Materials Characterization</i> , 2017 , 127, 111-115	3.9	33
220	Enhancement of strength and ductility by interfacial nano-decoration in carbon nanotube/aluminum matrix composites. <i>Carbon</i> , 2020 , 159, 201-212	10.4	33
219	Linking the thermal characteristics and mechanical properties of Fe-based bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 867-871	5.7	32
218	Effects of cold rolling and subsequent annealing on the microstructure of a HfNbTaTiZr high-entropy alloy. <i>Journal of Materials Research</i> , 2016 , 31, 3815-3823	2.5	32
217	Improving the mechanical properties of a ZM61 magnesium alloy by pre-rolling and high strain rate rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 478-484	5.3	32
216	In situ formed core-shell structured particle reinforced aluminum matrix composites. <i>Materials & Design</i> , 2014 , 56, 405-408		31
215	Effect of Size and Aspect Ratio on the Mechanical Properties of ZrAlNiCuNb Metallic Glass. <i>Rare Metal Materials and Engineering</i> , 2012 , 41, 762-766		31
214	Modeling the fracture toughness and tensile ductility of SiCp/Al metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 474, 371-375	5.3	31
213	Microstructures and mechanical properties of nano carbides reinforced CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 170-179	5.7	30
212	Regulating the strength and ductility of a cold rolled FeCrCoMnNi high-entropy alloy via annealing treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 755, 289-294	5.3	29

211	Effects of Alloying Elements on Microstructure and Properties of Magnesium Alloys for Tripling Ball. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4793-4803	2.3	28
210	Texture, Microstructure and Mechanical Properties of 6111 Aluminum Alloy Subject to Rolling Deformation. <i>Materials Research</i> , 2017 , 20, 1360-1368	1.5	27
209	A coupled EBSD/TEM study of the microstructural evolution of multi-axial compressed pure Al and AlMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 658, 16-27	5.3	27
208	Effects of Zr Content on the Yield Strength of an Al-Sc Alloy. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 377-381	1.6	27
207	Modeling the Age-Hardening Behavior of SiC/Al Metal Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 638-648	2.3	27
206	Abnormal internal friction in the in-situ Ti60Zr15V10Cu5Be10 metallic glass matrix composite. <i>Journal of Alloys and Compounds</i> , 2017 , 724, 921-931	5.7	26
205	Effects of selective laser melting build orientations on the microstructure and tensile performance of Ti6Al4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 776, 139001	5.3	26
204	Deformation-induced crystalline-to-amorphous phase transformation in a CrMnFeCoNi high-entropy alloy. <i>Science Advances</i> , 2021 , 7,	14.3	26
203	Effects of grain size on the microstructures and mechanical properties of 304 austenitic steel processed by torsional deformation. <i>Micron</i> , 2018 , 105, 93-97	2.3	26
202	Grain refinement and phase transition of commercial pure zirconium processed by cold rolling. <i>Materials Characterization</i> , 2017 , 129, 149-155	3.9	25
201	Dynamic recrystallization behaviors of high Mg alloyed Al-Mg alloy during high strain rate rolling deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 753, 59-69	5.3	25
200	Acquiring well balanced strength and ductility of Cu/CNTs composites with uniform dispersion of CNTs and strong interfacial bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 733, 144-152	5.3	25
199	Facile synthesis of Fe/Fe ₃ C-C core-shell nanoparticles as a high-efficiency microwave absorber. <i>Applied Surface Science</i> , 2019 , 493, 1083-1089	6.7	25
198	Deformation induced dynamic recrystallization and precipitation strengthening in an MgZnMn alloy processed by high strain rate rolling. <i>Materials Characterization</i> , 2016 , 121, 135-138	3.9	25
197	Synthesis and Morphology Evolution of Ultrahigh Content Nitrogen-Doped, Micropore-Dominated Carbon Materials as High-Performance Supercapacitors. <i>ChemSusChem</i> , 2018 , 11, 3932-3940	8.3	25
196	Temperature-dependent chemical state of the nickel catalyst for the growth of carbon nanofibers. <i>Carbon</i> , 2016 , 96, 904-910	10.4	24
195	Effects of torsional deformation on the microstructures and mechanical properties of a CoCrFeNiMo _{0.15} high-entropy alloy. <i>Philosophical Magazine</i> , 2017 , 97, 3229-3245	1.6	24
194	Twinning via the motion of incoherent twin boundaries nucleated at grain boundaries in a nanocrystalline Cu alloy. <i>Scripta Materialia</i> , 2014 , 72-73, 35-38	5.6	24

193	Effects of Cu content on the precipitation process of Al ₇₅ Ni ₂₅ Mg alloys. <i>Journal of Materials Science</i> , 2012 , 47, 8174-8187	4.3	24
192	Effects of die-pressing pressure and extrusion on the microstructures and mechanical properties of SiC reinforced pure aluminum composites. <i>Materials & Design</i> , 2010 , 31, 985-989		24
191	Effects of Yb on the mechanical properties and microstructures of an AlMg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 519-523	5.3	24
190	Compositionally gradient Ti-Ta metal-metal composite with ultra-high strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 386-393	5.3	24
189	Improving the plasticity of bulk metallic glasses via pre-compression below the yield stress. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 602, 68-76	5.3	23
188	Effect of Fe on microstructure, phase evolution and mechanical properties of (AlCoCrFeNi) _{100-x} Fe _x high entropy alloys processed by spark plasma sintering. <i>Intermetallics</i> , 2018 , 103, 1-11	3.5	23
187	Quantitative measurement for the microstructural parameters of nano-precipitates in Al-Mg-Si-Cu alloys. <i>Materials Characterization</i> , 2016 , 118, 352-362	3.9	22
186	Multi-scale model for the ductility of multiple phase materials. <i>Mechanics of Materials</i> , 2009 , 41, 622-633	3.3	22
185	Effects of annealing on the microstructural evolution and phase transition in an AlCrCuFeNi high-entropy alloy. <i>Micron</i> , 2017 , 101, 69-77	2.3	21
184	The effect of mechanical milling on the soft magnetic properties of amorphous FINEMET alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 381, 322-327	2.8	21
183	Experimental and Modeling of the Coupled Influences of Various Sized Particles on the Tensile Ductility of SiC p /Al Metal Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2127-2137	2.3	21
182	Microstructural evolution of CuAl alloys subjected to multi-axial compression. <i>Materials Characterization</i> , 2015 , 103, 107-119	3.9	20
181	Facile synthesis and influences of Fe/Ni ratio on the microwave absorption performance of ultra-small FeNi-C core-shell nanoparticles. <i>Materials Research Bulletin</i> , 2020 , 126, 110837	5.1	20
180	Novel C/Cu sheath/core nanostructures synthesized via low-temperature MOCVD. <i>Nanotechnology</i> , 2011 , 22, 405704	3.4	20
179	Yield stress of SiC reinforced aluminum alloy composites. <i>Journal of Materials Science</i> , 2010 , 45, 4097-4110	4.0	20
178	Formation of large scaled zero-strain deformation twins in coarse-grained copper. <i>Scripta Materialia</i> , 2016 , 125, 49-53	5.6	19
177	CALPHAD aided design of high entropy alloy to achieve high strength via precipitate strengthening. <i>Science China Materials</i> , 2020 , 63, 288-299	7.1	19
176	High strength and large ductility of a fine-grained AlMg alloy processed by high strain rate hot rolling and cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 787, 139481	5.3	18

175	Creep of granular ice with and without dispersed particles. <i>Journal of Glaciology</i> , 2005 , 51, 210-218	3.4	18
174	Effects of solid solution elements on damping capacities of binary magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138707	5.3	18
173	Chemical anchoring of SeS on a fluoro-substituted covalent organic framework as a high-performance cathode material. <i>Chemical Communications</i> , 2019 , 55, 13247-13250	5.8	18
172	Liquid metal embrittlement susceptibility of a high-entropy alloy exposed to oxygen-depleted liquid lead-bismuth eutectic at 250 and 350 °C. <i>Journal of Nuclear Materials</i> , 2020 , 528, 151859	3.3	18
171	Three dimensional crystallographic orientation relationships for hexagonal close packed structure to face centered cubic structure transformation in pure titanium. <i>Scripta Materialia</i> , 2019 , 169, 46-51	5.6	17
170	Exploiting the synergic strengthening effects of stacking faults in carbon nanotubes reinforced aluminum matrix composites for enhanced mechanical properties. <i>Composites Part B: Engineering</i> , 2021 , 211, 108646	10	17
169	$\langle c + a \rangle$ dislocations shearing (0001) plate precipitates in an Mg-Zn-Mn alloy. <i>Scripta Materialia</i> , 2019 , 170, 24-28	5.6	16
168	Effect of thermomechanical treatment on the mechanical properties of an AlCuMg alloy. <i>Materials & Design</i> , 2009 , 30, 857-861		16
167	Tribological and biological behaviors of laser clad Ti-based metallic glass composite coatings. <i>Applied Surface Science</i> , 2020 , 507, 145104	6.7	16
166	Deformation behaviors of a hot rolled near-Ti-5Al-5Mo-5V-1Cr-1Fe alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 390-399	5.3	16
165	Multiple Covalent Triazine Frameworks with Strong Polysulfide Chemisorption for Enhanced Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2019 , 6, 2777-2781	4.3	15
164	Inhomogeneous creep deformation in metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 57-60	5.3	15
163	A detailed appraisal of the stress exponent used for characterizing creep behavior in metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 654, 53-59	5.3	15
162	Effects of Sintering and Extrusion on the Microstructures and Mechanical Properties of a SiC/Al-Cu Composite. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 373-381	1.6	15
161	On the effect of cooling rate during melt spinning of FINEMET ribbons. <i>Nanoscale</i> , 2013 , 5, 7520-7	7.7	15
160	Effect of Minor Cu Addition on the Precipitation Sequence of an As-Cast Al-Mg-Si 6005 Alloy. <i>Archives of Metallurgy and Materials</i> , 2012 , 57,		15
159	Altered microstructural evolution and mechanical properties of CoCrFeNiMo _{0.15} high-entropy alloy by cryogenic rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 574-582	5.3	14
158	Preparation and Pore Structure Stability at High Temperature of Porous Fe-Al Intermetallics. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 3959-3966	1.6	14

157	Simulation of the electron diffraction patterns from needle/rod-like precipitates in AlMgSi alloys. <i>Materials Characterization</i> , 2011 , 62, 894-903	3.9	14
156	Strain direction dependency of deformation mechanisms in an HCP-Ti crystalline by molecular dynamics simulations. <i>Computational Materials Science</i> , 2020 , 172, 109328	3.2	14
155	Enhancing the mechanical properties of high strain rate rolled Mg ₆ Zn ₁ Mn alloy by pre-rolling. <i>Journal of Materials Science</i> , 2017 , 52, 10557-10566	4.3	13
154	Mechanisms for nucleation and propagation of incoherent twins in a CoCrFeNiMo 0.15 high-entropy alloy subject to cold rolling and annealing. <i>Intermetallics</i> , 2018 , 96, 104-110	3.5	13
153	Combined effect of isothermal annealing and pre-compression on mechanical properties of Cu ₃₆ Zr ₄₈ Al ₈ Ag ₈ bulk metallic glass. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 1620-1628	3.3	13
152	An investigation of the mechanical behaviors of micro-sized tungsten whiskers using nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 594, 278-286	5.3	13
151	The effect of particles on creep rate and microstructures of granular ice. <i>Journal of Glaciology</i> , 2008 , 54, 533-537	3.4	13
150	Effects of Ag addition on mechanical properties and microstructures of Al-8Cu-0.5Mg alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, 766-771	3.3	13
149	Simultaneously enhanced strength and ductility of 6xxx Al alloys via manipulating meso-scale and nano-scale structures guided with phase equilibrium. <i>Journal of Materials Science and Technology</i> , 2020 , 41, 139-148	9.1	13
148	Structural stability and magnetic properties of WFeH phases. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13093-13100	6.7	13
147	Improving the strength and retaining the ductility of microstructural graded coarse-grained materials with low stacking fault energy. <i>Materials and Design</i> , 2018 , 160, 21-33	8.1	13
146	Short-range ordering induced serrated flow in a carbon contained FeCoCrNiMn high entropy alloy. <i>Micron</i> , 2019 , 126, 102739	2.3	12
145	Phase transition induced high strength and large ductility of a hot rolled near β Ti-5Al-5Mo-5V-1Cr-1Fe alloy. <i>Scripta Materialia</i> , 2019 , 170, 34-37	5.6	12
144	Influence of carburization on oxidation behavior of High Nb contained TiAl alloy. <i>Surface and Coatings Technology</i> , 2015 , 277, 210-215	4.4	12
143	Extraordinary tensile properties of titanium alloy with heterogeneous phase-distribution based on hetero-deformation induced hardening. <i>Materials Research Letters</i> , 2020 , 8, 254-260	7.4	12
142	Phase transformation and structural evolution in a Ti-5at.% Al alloy induced by cold-rolling. <i>Journal of Materials Science and Technology</i> , 2020 , 49, 211-223	9.1	12
141	Correlation between hardness and shear banding of metallic glasses under nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 38-42	5.3	12
140	Stability, adsorption, and diffusion of hydrogen in Pd ₃ Ag phases. <i>Journal of Membrane Science</i> , 2016 , 503, 124-131	9.6	12

139	Enhanced electromagnetic wave absorption of Ni ₄ core-shell nanoparticles by HCP-Ni phase. <i>Materials Research Express</i> , 2018 , 5, 095013	1.7	12
138	The evolution of local mechanical properties of bulk metallic glasses caused by structural inhomogeneity. <i>Journal of Alloys and Compounds</i> , 2014 , 591, 315-319	5.7	12
137	Ni-AlxNiy core-shell structured particle reinforced Al-based composites fabricated by in-situ powder metallurgy technique. <i>Materials Chemistry and Physics</i> , 2015 , 160, 352-358	4.4	12
136	Effect of indentation size and grain/sub-grain size on microhardness of high purity tungsten. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3240-3246	3.3	12
135	Effect of isothermal annealing on the compressive strength of a ZrAlNiCuNb metallic glass. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2606-2610	5.7	12
134	The effect of annealing on the mechanical properties of a ZrAlNiCu metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1239-1241	3.9	12
133	Effect of melting modes on microstructure and tribological properties of selective laser melted AlSi10Mg alloy. <i>Virtual and Physical Prototyping</i> , 2020 , 15, 570-582	10.1	12
132	A facile route to prepare dimeric BODIPY-based porous organic polymers using FeCl ₃ . <i>New Journal of Chemistry</i> , 2017 , 41, 5263-5266	3.6	11
131	Strengthening the FeCoCrNiMo _{0.15} high entropy alloy by a gradient structure. <i>Journal of Alloys and Compounds</i> , 2020 , 841, 155688	5.7	11
130	On the atomic model of Guinier-Preston zones in Al-Mg-Si-Cu alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 644-650	5.7	11
129	Influence of deformation microstructure on the precipitation behaviors of an Al-4Mg-0.3Cu alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2238-2245	5.7	11
128	Nanoindentation creep of ultrafine-grained Al ₂ O ₃ particle reinforced copper composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 80-85	5.3	11
127	Large-scale synthesis of tungsten single-crystal microtubes via vapor-deposition process. <i>Journal of Crystal Growth</i> , 2011 , 316, 137-144	1.6	11
126	Nitrogen doped Co-Cr-Mo-W based alloys fabricated by selective laser melting with enhanced strength and good ductility. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 305-311	5.7	10
125	Mechanical properties and microstructures of Al-10Mg-4.5Si matrix composites reinforced by carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 860-868	5.7	10
124	Partial dislocation emission in a superfine grained AlMg alloy subject to multi-axial compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 641, 189-193	5.3	10
123	Mechanism of Mechanically Induced Nanocrystallization of Amorphous FINEMET Ribbons During Milling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2718-2725	2.3	10
122	Grain refinement via formation and subdivision of microbands and thin laths structures in cold-rolled hafnium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 645, 328-332	5.3	10

121	New orientations between α_2 phase and β matrix in a Mg-Zn-Mn alloy processed by high strain rate rolling. <i>Journal of Alloys and Compounds</i> , 2018 , 750, 465-470	5.7	10
120	Effects of low temperature aging precipitates on damping and mechanical properties of ZK60 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 152961	5.7	10
119	Effects of elemental segregation and scanning strategy on the mechanical properties and hot cracking of a selective laser melted FeCoCrNiMn-(N,Si) high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158892	5.7	10
118	Microstructural Evolution and Structure-Hardness Relationship in an Al-4wt.%Mg Alloy Processed by High-Pressure Torsion. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1909-1915	1.6	10
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