

# Min Song

## List of Publications by Year in Descending Order

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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  
citations

38  
h-index

57  
g-index

272  
ext. papers

6,717  
ext. citations

4.6  
avg, IF

6.34  
L-index

#	Paper	IF	Citations
264	Development of a new cryogenic tribotester and its application to the study of cryogenic wear of AISI 316 stainless steel. <i>Wear</i> , <b>2022</b> , 496-497, 204309	3.5	2
263	Atomic-level study of {101 $\bar{1}$ } deformation twinning in pure Ti and Ti-5at.% Al alloy. <i>International Journal of Plasticity</i> , <b>2022</b> , 153, 103273	7.6	1
262	Enhancing damping capacity and mechanical properties of Al-Mg alloy by high strain rate hot rolling and subsequent cold rolling. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 908, 164677	5.7	1
261	Flow behavior and dynamic transformation of bimodal TC17 titanium alloy during high strain rate hot compression. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 912, 165260	5.7	2
260	On the dual-stage partial recrystallization and the corresponding mechanical response of the Cantor alloy. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165651	5.7	0
259	Dynamic recrystallization, texture and mechanical properties of high Mg content AlMg alloy deformed by high strain rate rolling. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2021</b> , 31, 2885-2898	3.3	1
258	Microstructure and hardness of solution treated and cold-rolled Co75Cr25 alloy. <i>Materials Characterization</i> , <b>2021</b> , 181, 111521	3.9	0
257	Effects of Al on crack propagation in titanium alloys and the governing toughening mechanism. <i>Mechanics of Materials</i> , <b>2021</b> , 163, 104107	3.3	1
256	Deformation-induced crystalline-to-amorphous phase transformation in a CrMnFeCoNi high-entropy alloy. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	26
255	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> , <b>2021</b> , 211, 108646	10	17
254	Achieving high damping and excellent ductility of AlMg alloy sheet by the coupling effect of Mg content and fine grain structure. <i>Materials Characterization</i> , <b>2021</b> , 174, 110974	3.9	6
253	A comparison of the microstructures and mechanical properties of a GH648 superalloy fabricated by selective laser melting and casting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 813, 141178	5.3	3
252	Phase Transition and Twinning Induced High Strength and Large Ductility of a Near $\beta$ Ti Alloy Processed by Double Aging. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 5914-5920	1.6	0
251	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> , <b>2021</b> , 865, 158892	5.7	10
250	Rate-dependent inhomogeneous creep behavior in metallic glasses. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2021</b> , 31, 1758-1765	3.3	2
249	Regulating the interfacial reaction between carbon nanotubes and aluminum via copper nano decoration. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 820, 141576	5.3	3
248	A new phase transformation route for the formation of metastable beta-Zr. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 2672-2683	4.3	2

247	Structural characterization of the 112 $\bar{1}$ 2 twin boundary and the corresponding stress accommodation mechanisms in pure titanium. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 72, 114-121	9.1	4
246	Liquid metal embrittlement of a dual-phase Al <sub>0.7</sub> CoCrFeNi high-entropy alloy exposed to oxygen-saturated lead-bismuth eutectic. <i>Scripta Materialia</i> , <b>2021</b> , 194, 113652	5.6	10
245	Microstructure and mechanical properties of an MP159 alloy processed by torsional deformation and subsequent annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 802, 140676	5.3	7
244	High ductility and strong work-hardening behavior of Zn modified as-hot-rolled AlMg sheets. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 854, 157079	5.7	4
243	Microstructural and hardness evolutions of a cold-rolled cobalt. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 803, 140712	5.3	3
242	Effects of the $\eta'$ precipitates on mechanical and damping properties of ZK60 magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 804, 140730	5.3	3
241	Enhanced microwave absorption performance of ultra-small Zn-doped Fe-C nanoparticles. <i>Applied Physics Express</i> , <b>2021</b> , 14, 035005	2.4	2
240	Effects of tensile temperatures on phase transformations in zirconium by molecular dynamics simulations. <i>Journal of Central South University</i> , <b>2021</b> , 28, 1932-1945	2.1	0
239	Effects of strain rate and strain on microstructural evolution and mechanical properties of a Ti-10 $\bar{1}$ at.%Al alloy. <i>Materials Characterization</i> , <b>2021</b> , 179, 111314	3.9	0
238	Electron beam irradiation induced metastable phase in a Mg <sub>9.8</sub> wt%Sn alloy. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 84, 133-138	9.1	2
237	Microstructural evolution of a polycrystalline cobalt during tensile deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 826, 141970	5.3	0
236	Precipitation and transformation of $\beta$ phase in a selective laser melted high-chromium superalloy subjected to heat treatment. <i>Micron</i> , <b>2021</b> , 149, 103113	2.3	1
235	Dynamic deformation behavior and microstructure evolution of CoCrNiMox medium entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 827, 142048	5.3	2
234	Shearing and rotation of $\eta$ and $\eta'$ precipitates in an Al-Mg-Si alloy under tensile deformation: In-situ and ex-situ studies. <i>Acta Materialia</i> , <b>2021</b> , 220, 117310	8.4	5
233	Grain size dependent deformation behavior of a metastable Fe <sub>40</sub> Co <sub>20</sub> Cr <sub>20</sub> Mn <sub>10</sub> Ni <sub>10</sub> high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 883, 160876	5.7	5
232	Effects of the addition of CNTs and Al alloying on the microstructure and properties of Cu-(Al)/CNTs composites. <i>Diamond and Related Materials</i> , <b>2021</b> , 120, 108600	3.5	3
231	Extraordinary tensile properties of titanium alloy with heterogeneous phase-distribution based on hetero-deformation induced hardening. <i>Materials Research Letters</i> , <b>2020</b> , 8, 254-260	7.4	12
230	Preparation, microstructure and properties of Cu-8.3Al/CNTs composites with different volume fractions of CNTs. <i>Diamond and Related Materials</i> , <b>2020</b> , 107, 107912	3.5	1

229	High strength and large ductility of a fine-grained AlMg alloy processed by high strain rate hot rolling and cold rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 787, 139481	5.3	18
228	Grain refinement process in a cold-rolled polycrystalline cobalt. <i>Materials Characterization</i> , <b>2020</b> , 164, 110360	3.9	6
227	Strengthening the FeCoCrNiMo0.15 high entropy alloy by a gradient structure. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 841, 155688	5.7	11
226	An investigation of the microstructural evolution and tensile properties of a nickel-based GH648 superalloy manufactured through selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 790, 139704	5.3	9
225	The tension-compression asymmetry of martensite phase transformation in a metastable Fe40Co20Cr20Mn10Ni10 high-entropy alloy. <i>Science China Materials</i> , <b>2020</b> , 63, 1797-1807	7.1	8
224	Phase transformation and structural evolution in a Ti-5at.% Al alloy induced by cold-rolling. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 49, 211-223	9.1	12
223	Microstructure evolution and mechanical properties of the ZM61 alloy sheets under different pre-rolling and high strain rate rolling temperatures. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 1817-1824	2.5	1
222	The interactions between dynamic precipitates and dynamic recrystallization in Mg-5Zn-1Mn alloys during hot compression. <i>Materials Characterization</i> , <b>2020</b> , 160, 110131	3.9	3
221	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> , <b>2020</b> , 126, 110837	5.1	20
220	A comparison of the dry sliding wear behavior of NiCoCr medium entropy alloy with 316 stainless steel. <i>Materials Characterization</i> , <b>2020</b> , 160, 110132	3.9	7
219	Characterization of the microstructure and deformation substructure evolution in a hierarchal high-entropy alloy by correlative EBSD and ECCI. <i>Intermetallics</i> , <b>2020</b> , 121, 106788	3.5	9
218	An SEM-based approach to characterize the microstructural evolution in a gradient CoCrFeNiMo0.15 high-entropy alloy. <i>Materials Characterization</i> , <b>2020</b> , 161, 110169	3.9	8
217	Effects of selective laser melting build orientations on the microstructure and tensile performance of Ti6Al4V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 776, 139001	5.3	26
216	A comparative study on the dielectric response and microwave absorption performance of FeNi-capped carbon nanotubes and FeNi-cored carbon nanoparticles. <i>Nanotechnology</i> , <b>2020</b> , 32,	3.4	7
215	Effects of low temperature aging precipitates on damping and mechanical properties of ZK60 magnesium alloy. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 152961	5.7	10
214	Tribological and biological behaviors of laser clad Ti-based metallic glass composite coatings. <i>Applied Surface Science</i> , <b>2020</b> , 507, 145104	6.7	16
213	Enhancement of strength and ductility by interfacial nano-decoration in carbon nanotube/aluminum matrix composites. <i>Carbon</i> , <b>2020</b> , 159, 201-212	10.4	33
212	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> , <b>2020</b> , 41, 139-148	9.1	13

211	Effects of temperature and alloying content on the phase transformation and {101 $\bar{1}$ 1} twinning in Zr during rolling. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 41, 76-80	9.1	9
210	Effects of solid solution elements on damping capacities of binary magnesium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 772, 138707	5.3	18
209	Quantified contribution of $\eta$ and $\beta$ precipitates to the strengthening of an aged AlMgSi alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 774, 138776	5.3	35
208	A good combination of strength and ductility of ultra-coarse-grained Cu-Al alloy with coarse-grained surface layer via pre-torsional treatment. <i>Micron</i> , <b>2020</b> , 129, 102783	2.3	5
207	Nitrogen induced heterogeneous structures overcome strength-ductility trade-off in an additively manufactured high-entropy alloy. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100498	6.6	39
206	Deformation mechanism of pure hafnium under high speed compression. <i>Materials Characterization</i> , <b>2020</b> , 169, 110639	3.9	1
205	A comparison of the dry sliding wear of single-phase f.c.c. carbon-doped Fe <sub>40.4</sub> Ni <sub>11.3</sub> Mn <sub>34.8</sub> Al <sub>7.5</sub> Cr <sub>6</sub> and CoCrFeMnNi high entropy alloys with 316 stainless steel. <i>Materials Characterization</i> , <b>2020</b> , 170, 110693	3.9	3
204	Achieving high combination of strength and ductility of Al matrix composite via in-situ formed Ti-Al <sub>3</sub> Ti core-shell particle. <i>Materials Characterization</i> , <b>2020</b> , 170, 110666	3.9	4
203	Toughening alpha-Ti by dislocation-induced phase transformation at crack tips. <i>Mechanics of Materials</i> , <b>2020</b> , 151, 103629	3.3	1
202	Dynamic Precipitation, Dynamic Recrystallization, and Texture Evolution of Mg-5Zn Alloy Sheets with Trace Ca and Sr Additions. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 886-894	0.5	1
201	Effect of melting modes on microstructure and tribological properties of selective laser melted AlSi10Mg alloy. <i>Virtual and Physical Prototyping</i> , <b>2020</b> , 15, 570-582	10.1	12
200	Structural instability of plate-shaped $\theta$ precipitates in an aged Al-Cu alloy. <i>Philosophical Magazine Letters</i> , <b>2020</b> , 100, 524-532	1	2
199	Effects of Mo-doping on the microstructure and mechanical properties of CoCrNi medium entropy alloy. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 2726-2736	2.5	6
198	CALPHAD aided design of high entropy alloy to achieve high strength via precipitate strengthening. <i>Science China Materials</i> , <b>2020</b> , 63, 288-299	7.1	19
197	Strain direction dependency of deformation mechanisms in an HCP-Ti crystalline by molecular dynamics simulations. <i>Computational Materials Science</i> , <b>2020</b> , 172, 109328	3.2	14
196	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> , <b>2020</b> , 528, 151859	3.3	18
195	Deformation Twinning and Detwinning in Face-Centered Cubic Metallic Materials. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1900479	3.5	8
194	Short-range ordering induced serrated flow in a carbon contained FeCoCrNiMn high entropy alloy. <i>Micron</i> , <b>2019</b> , 126, 102739	2.3	12

193	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> , <b>2019</b> , 785, 305-311	5.7	10
192	Mechanical Properties and Microstructural Evolution of CuZn Alloys via Pre-Torsional Deformation. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	3
191	Microstructure and mechanical properties of AlCoCrFeNi high entropy alloys produced by spark plasma sintering. <i>Materials Research Express</i> , <b>2019</b> , 6, 0865e7	1.7	7
190	<c + a> dislocations shearing (0001) plate precipitates in an Mg-Zn-Mn alloy. <i>Scripta Materialia</i> , <b>2019</b> , 170, 24-28	5.6	16
189	Phase transition induced high strength and large ductility of a hot rolled near $\sigma$ Ti-5Al-5Mo-5V-1Cr-1Fe alloy. <i>Scripta Materialia</i> , <b>2019</b> , 170, 34-37	5.6	12
188	Altered microstructural evolution and mechanical properties of CoCrFeNiMo <sub>0.15</sub> high-entropy alloy by cryogenic rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 759, 574-582	5.3	14
187	Dynamic precipitation behavior before dynamic recrystallization in a Mg-Zn-Mn alloy during hot compression. <i>Materials Characterization</i> , <b>2019</b> , 153, 14-23	3.9	8
186	Multiple Covalent Triazine Frameworks with Strong Polysulfide Chemisorption for Enhanced Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 2777-2781	4.3	15
185	Three dimensional crystallographic orientation relationships for hexagonal close packed structure to face centered cubic structure transformation in pure titanium. <i>Scripta Materialia</i> , <b>2019</b> , 169, 46-51	5.6	17
184	Mechanical properties and microstructures of Al-10Mg-4.5Si matrix composites reinforced by carbon nanotubes. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 792, 860-868	5.7	10
183	A new double twinning mode in a cold-rolled Zr alloy. <i>Philosophical Magazine Letters</i> , <b>2019</b> , 99, 21-28	1	2
182	Dynamic recrystallization behaviors of high Mg alloyed Al-Mg alloy during high strain rate rolling deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 753, 59-69	5.3	25
181	Microstructures and mechanical properties of nano carbides reinforced CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 792, 170-179	5.7	30
180	Regulating the strength and ductility of a cold rolled FeCrCoMnNi high-entropy alloy via annealing treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 755, 289-294	5.3	29
179	Deformation mechanisms of mechanically induced phase transformations in iron. <i>Computational Materials Science</i> , <b>2019</b> , 162, 12-20	3.2	9
178	Facile synthesis of Fe/Fe <sub>3</sub> C-C core-shell nanoparticles as a high-efficiency microwave absorber. <i>Applied Surface Science</i> , <b>2019</b> , 493, 1083-1089	6.7	25
177	Effects of $\sigma$ precipitates on the mechanical performance and fracture behavior of an AlCu alloy subjected to overaged condition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 762, 138091	5.3	8
176	Large-scale synthesis and outstanding microwave absorption properties of carbon nanotubes coated by extremely small FeCo-C core-shell nanoparticles. <i>Carbon</i> , <b>2019</b> , 153, 52-61	10.4	60

175	Stress accommodation by $\{110\}$ $\rightarrow$ $\{100\}$ transformation at the $\{101\bar{1}\}$ twin boundary in a cold-rolled Ti-5at.% Al alloy. <i>Materialia</i> , <b>2019</b> , 8, 100469	3.2	3
174	Evolutions of the microstructure, texture and mechanical properties of a cold rolled Al-0.8Mg-0.8Si-0.66Cu-0.1Fe-0.12Cr alloy. <i>Materials Research Express</i> , <b>2019</b> , 6, 106564	1.7	1
173	Microstructural Evolution and Phase Transformation of a Ti-5Nb-5Al Alloy During Annealing Treatment. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	1
172	Chemical anchoring of SeS on a fluoro-substituted covalent organic framework as a high-performance cathode material. <i>Chemical Communications</i> , <b>2019</b> , 55, 13247-13250	5.8	18
171	Phase transition and hardness evolution of a Ti-5Al-5Mo-1Fe-1Cr alloy subjected to isothermal aging. <i>Micron</i> , <b>2019</b> , 116, 15-21	2.3	2
170	Effects of Torsional Deformation on the Mechanical Properties and Microstructures of a Commercial Pure Copper. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 543-548	1.6	5
169	Deformation behaviors of a hot rolled near- $\beta$ -Ti-5Al-5Mo-5V-1Cr-1Fe alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 742, 390-399	5.3	16
168	Microstructural evolution and twinning behavior of a cold-rolled Zr70Ti30 alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 784, 954-960	5.7	6
167	Effects of carbon on the microstructures and mechanical properties of FeCoCrNiMn high entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 746, 356-362	5.3	52
166	Annealing-induced abnormal hardening in a cold rolled CrMnFeCoNi high entropy alloy. <i>Scripta Materialia</i> , <b>2019</b> , 162, 345-349	5.6	56
165	Exploring the size effects of Al <sub>4</sub> C <sub>3</sub> on the mechanical properties and thermal behaviors of Al-based composites reinforced by SiC and carbon nanotubes. <i>Carbon</i> , <b>2018</b> , 135, 224-235	10.4	89
164	On the atomic model of Guinier-Preston zones in Al-Mg-Si-Cu alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 745, 644-650	5.7	11
163	The Evolution of Second-Phase Particles in 6111 Aluminum Alloy Processed by Hot and Cold Rolling. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 1130-1137	1.6	4
162	Proposed mechanism of HCP $\rightarrow$ FCC phase transition in titanium through first principles calculation and experiments. <i>Scientific Reports</i> , <b>2018</b> , 8, 1992	4.9	44
161	Microstructures and mechanical properties of C-containing FeCoCrNi high-entropy alloy fabricated by selective laser melting. <i>Intermetallics</i> , <b>2018</b> , 94, 165-171	3.5	82
160	Ameliorated mechanical and thermal properties of SiC reinforced Al matrix composites through hybridizing carbon nanotubes. <i>Materials Characterization</i> , <b>2018</b> , 136, 272-280	3.9	35
159	New orientations between $\beta$ phase and $\alpha$ matrix in a Mg-Zn-Mn alloy processed by high strain rate rolling. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 750, 465-470	5.7	10
158	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> , <b>2018</b> , 96, 104-110	3.5	13

157	Experimental analysis to the structural relaxation of Ti <sub>48</sub> Zr <sub>20</sub> V <sub>12</sub> Cu <sub>5</sub> Be <sub>15</sub> metallic glass matrix composite. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 443-452	5.7	5
156	Acquiring well balanced strength and ductility of Cu/CNTs composites with uniform dispersion of CNTs and strong interfacial bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 733, 144-152	5.3	25
155	Enhanced mechanical properties of aluminum based composites reinforced by chemically oxidized carbon nanotubes. <i>Carbon</i> , <b>2018</b> , 139, 459-471	10.4	61
154	Transformation of fracture mode of an Al-Mg-Si-Cu alloy subject to aging treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 201-207	5.3	7
153	Structural evolutions of metallic materials processed by severe plastic deformation. <i>Materials Science and Engineering Reports</i> , <b>2018</b> , 133, 1-59	30.9	231
152	Effects of hot rolling, intermediate annealing and cold rolling on microstructure, texture and mechanical properties of an Al-Mg-Si-Cu alloy. <i>Materials Research Express</i> , <b>2018</b> , 5, 106521	1.7	1
151	Nanosized precipitates and dislocation networks reinforced C-containing CoCrFeNi high-entropy alloy fabricated by selective laser melting. <i>Materials Characterization</i> , <b>2018</b> , 144, 605-610	3.9	65
150	BODIPY modified g-C <sub>3</sub> N <sub>4</sub> as a highly efficient photocatalyst for degradation of Rhodamine B under visible light irradiation. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 267, 22-27	3.3	9
149	Enhanced electromagnetic wave absorption of Ni@Co core-shell nanoparticles by HCP-Ni phase. <i>Materials Research Express</i> , <b>2018</b> , 5, 095013	1.7	12
148	BODIPY-based Carbonaceous Materials for High Performance Electrical Capacitive Energy Storage. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 3051-3056	4.5	4
147	Fabricating a bulk FCC Hf by a combination of high-energy ball milling and spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 75, 107-110	4.1	4
146	Effects of grain size on the microstructures and mechanical properties of 304 austenitic steel processed by torsional deformation. <i>Micron</i> , <b>2018</b> , 105, 93-97	2.3	26
145	Improving the mechanical properties of a ZM61 magnesium alloy by pre-rolling and high strain rate rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 712, 478-484	5.3	32
144	Compositionally gradient Ti-Ta metal-metal composite with ultra-high strength. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 712, 386-393	5.3	24
143	Effect of Y <sub>2</sub> O <sub>3</sub> doping on FCC to HCP phase transformation in cobalt produced by ball milling and spark plasma sintering. <i>Powder Technology</i> , <b>2018</b> , 324, 1-4	5.2	9
142	Highly Fluoro-Substituted Covalent Organic Framework and Its Application in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42233-42240	9.5	87
141	Effect of Fe on microstructure, phase evolution and mechanical properties of (AlCoCrFeNi) <sub>100-x</sub> Fe <sub>x</sub> high entropy alloys processed by spark plasma sintering. <i>Intermetallics</i> , <b>2018</b> , 103, 1-11	3.5	23
140	Synthesis and Morphology Evolution of Ultrahigh Content Nitrogen-Doped, Micropore-Dominated Carbon Materials as High-Performance Supercapacitors. <i>ChemSusChem</i> , <b>2018</b> , 11, 3932-3940	8.3	25



139	Improving the strength and retaining the ductility of microstructural graded coarse-grained materials with low stacking fault energy. <i>Materials and Design</i> , <b>2018</b> , 160, 21-33	8.1	13
138	Effect of stacking fault energy on the split length of 9R phase in coarse-grained Cu-Al alloys. <i>Materials Characterization</i> , <b>2018</b> , 142, 9-14	3.9	6
137	Microstructure and corrosion properties of SiC/Al-Mg-Cu-Si-Sn composites. <i>Science and Engineering of Composite Materials</i> , <b>2017</b> , 24, 709-713	1.5	1
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5	Initial experiments on the effects of particles at grain boundaries on the anelasticity and creep behavior of granular ice. <i>Annals of Glaciology</i> , <b>2004</b> , 39, 397-401	2.5	6
4	Deformation-induced phase transformation and twinning in Fe and Fe $\alpha$ alloys. <i>Materials Science and Technology</i> , 1-11	1.5	0
3	Bimodal-Structured AlMg Alloy with High Strength and Ductility Processed by High Strain Rate Rolling at Medium Temperature. <i>Metals and Materials International</i> , 1	2.4	4
2	Microstructure and Mechanical Properties of a MP159 Superalloy after Pre-tensile Deformation and Subsequent Annealing. <i>Advanced Engineering Materials</i> , 2100920	3.5	1
1	Microstructural Evolution of a Selective Laser Melted FeCoCrNiMn(N,Si) High-Entropy Alloy Subject to Cold-Rolling and Subsequent Annealing. <i>Advanced Engineering Materials</i> , 2200131	3.5	