

B-J Lee

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.

261
papers

8,998
citations

49
h-index

83
g-index

272
ext. papers

10,682
ext. citations

4.2
avg, IF

6.56
L-index

#	Paper	IF	Citations
261	A thermodynamic description for the CoCrFeMnNi system. <i>Journal of Materials Science</i> , 2022 , 57, 1373-1389	4.3	1
260	Solute-Dislocation Binding and Solute Clustering as a Mechanism for Room Temperature Ductility and Formability of Mg Alloys. <i>Minerals, Metals and Materials Series</i> , 2022 , 93-96	0.3	
259	Effects of deformation-induced martensitic transformation on cryogenic fracture toughness for metastable Si ₈ V ₂ Fe ₄₅ Cr ₁₀ Mn ₅ Co ₃₀ high-entropy alloy. <i>Acta Materialia</i> , 2022 , 225, 117568	8.4	4
258	Second nearest-neighbor modified embedded atom method interatomic potentials for Na-MSn (M = Cu, Mn, Ni) ternary systems. <i>Computational Materials Science</i> , 2022 , 206, 111305	3.2	
257	Interface characteristics and mechanical behavior of additively manufactured multi-material of stainless steel and Inconel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 847, 143318	5.3	2
256	Diffusion in A15 Nb ₃ Sn: An atomistic study. <i>Acta Materialia</i> , 2022 , 234, 118050	8.4	0
255	Ultrafast Na Transport into Crystalline Sn via Dislocation-Pipe Diffusion. <i>Small</i> , 2021 , e2104944	11	1
254	A comparative study on grain boundary segregation and solute clustering in Mg-Al-Zn and Mg-Zn-Ca alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 894, 162539	5.7	3
253	Self-Assembly of Pulverized Nanoparticles: An Approach to Realize Large-Capacity, Long-Lasting, and Ultra-Fast-Chargeable Na-Ion Batteries. <i>Nano Letters</i> , 2021 , 21, 9044-9051	11.5	4
252	Activation of non-basal slip in multicomponent Mg alloys. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	6
251	Second nearest-neighbor modified embedded-atom method interatomic potentials for the Mo-M (M = Al, Co, Cr, Fe, Ni, Ti) binary alloy systems. <i>Computational Materials Science</i> , 2021 , 194, 110473	3.2	2
250	Phase-field model with relaxation of the partition coefficient. <i>Computational Materials Science</i> , 2021 , 188, 110184	3.2	2
249	Second-nearest-neighbor modified embedded-atom method interatomic potential for V-M (M = Cu, Mo, Ti) binary systems. <i>Computational Materials Science</i> , 2021 , 188, 110177	3.2	4
248	Body-centered-cubic martensite and the role on room-temperature tensile properties in Si-added SiVCrMnFeCo high-entropy alloys. <i>Journal of Materials Science and Technology</i> , 2021 , 76, 222-230	9.1	7
247	Modified embedded-atom method interatomic potentials for MgAlCa and MgAlZn ternary systems. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 317-335	8.8	11
246	Effect of 1Al addition on deformation behavior of Mg. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 489-498	8.8	6
245	The Origin of Activation of Non-basal Slip in Mg-Ce Dilute Alloy: An Atomistic Simulation Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 964-974	2.3	2

244	Effects of temperature and loading rate on phase stability and deformation mechanism in metastable V10Cr10Co30FeNi50-x high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 804, 140766	5.3	1
243	Excellent strength-ductility combination of multi-layered sheets composed of high-strength V10Cr10Fe50Co30 high entropy alloy and 304 austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141727	5.3	0
242	Strength-ductility enhancement in multi-layered sheet with high-entropy alloy and high-Mn twinning-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 822, 141670	5.3	1
241	Computational design of V-CoCrFeMnNi high-entropy alloys: An atomistic simulation study. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021 , 74, 102317	1.9	1
240	Deformation behavior of a Co-Cr-Fe-Ni-Mo medium-entropy alloy at extremely low temperatures. <i>Materials Today</i> , 2021 , 50, 55-55	21.8	10
239	2.3 GPa cryogenic strength through thermal-induced and deformation-induced body-centered cubic martensite in a novel ferrous medium entropy alloy. <i>Scripta Materialia</i> , 2021 , 204, 114157	5.6	4
238	Pressure dependence of thermodynamic interaction parameters for binary solid solution phases: An atomistic simulation study. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021 , 75, 102342	1.9	1
237	Second nearest-neighbor modified embedded-atom method interatomic potentials for the Co-M (M = Ti, V) binary systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020 , 70, 101791	1.9	5
236	Effects of Cr addition on Charpy impact energy in austenitic 0.45C-24Mn-(0,3,6)Cr steels. <i>Journal of Materials Science and Technology</i> , 2020 , 50, 21-30	9.1	8
235	Durability screening of Pt ternary alloy (111) surfaces for oxygen reduction reaction using Density Functional Theory. <i>Surfaces and Interfaces</i> , 2020 , 18, 100440	4.1	1
234	A new strategy for designing immiscible medium-entropy alloys with excellent tensile properties. <i>Acta Materialia</i> , 2020 , 193, 71-82	8.4	38
233	Second-nearest-neighbor modified embedded-atom method interatomic potential for Cu-M (M = Co, Mo) binary systems. <i>Computational Materials Science</i> , 2020 , 178, 109627	3.2	3
232	Effects of annealing temperature on microstructures and tensile properties of a single FCC phase CoCuMnNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152111	5.7	20
231	Evolution of microstructure and tensile properties of cold-drawn hyper-eutectoid steel wires during post-deformation annealing. <i>Journal of Materials Science and Technology</i> , 2020 , 41, 1-11	9.1	8
230	Effects of transformation-induced plasticity (TRIP) on tensile property improvement of Fe45Co30Cr10V10Ni5-xMnx high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138809	5.3	18
229	A thermodynamic description of the AlCuBeMn system for an immiscible medium-entropy alloy design. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020 , 71, 101995	1.9	0
228	Second nearest-neighbor modified embedded atom method interatomic potentials for the Na unary and Na-Sn binary systems. <i>Computational Materials Science</i> , 2020 , 185, 109953	3.2	5
227	Interatomic potentials for Pt-C and Pd-C systems and a study of structure-adsorption relationship in large Pt/graphene system. <i>Computational Materials Science</i> , 2020 , 185, 109946	3.2	1

226	Precipitation-driven metastability engineering of carbon-doped CoCrFeNiMo medium-entropy alloys at cryogenic temperature. <i>Scripta Materialia</i> , 2020 , 188, 140-145	5.6	36
225	Effect of Plasma Ignition on the Growth Temperature Decrease of Single-Walled Carbon Nanotubes in a Plasma-Coupled Hybrid Chemical-Vapor-Deposition System. <i>Journal of the Korean Physical Society</i> , 2020 , 76, 1110-1115	0.6	0
224	Carbide Formation and Matrix Strengthening by Nb Addition in Austenitic Stainless Cast Steels Used for Turbo-Charger-Housing Materials. <i>Metals and Materials International</i> , 2020 , 26, 1506-1514	2.4	5
223	Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. <i>Acta Materialia</i> , 2019 , 181, 318-330	8.4	67
222	Modified embedded-atom method interatomic potential for the MgZnCa ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019 , 67, 101674	1.9	4
221	Effects of deformation-induced BCC martensitic transformation and twinning on impact toughness and dynamic tensile response in metastable VCrFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 1056-1067	5.7	30
220	A thermodynamic description of the Co-Cr-Fe-Ni-V system for high-entropy alloy design. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019 , 66, 101624	1.9	14
219	Excellent combination of cryogenic-temperature strength and ductility of high-entropy-alloy-cored multi-layered sheet. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 465-470	5.7	12
218	Effects of strain rate on room- and cryogenic-temperature compressive properties in metastable V10Cr10Fe45Co35 high-entropy alloy. <i>Scientific Reports</i> , 2019 , 9, 6163	4.9	11
217	Replacement of Ni by Mn in Commercial High-Ni Austenitic Cast Steels Used for High-Performance Turbocharger Housings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 2585-2593	2.3	0
216	Novel Co-rich high performance twinning-induced plasticity (TWIP) and transformation-induced plasticity (TRIP) high-entropy alloys. <i>Scripta Materialia</i> , 2019 , 165, 39-43	5.6	108
215	Influence of initial microstructures on intercritical annealing behaviour in a medium Mn steel. <i>Materials Science and Technology</i> , 2019 , 35, 2092-2100	1.5	7
214	Cryogenic-temperature fracture toughness analysis of non-equi-atomic V10Cr10Fe45Co20Ni15 high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 809, 151864	5.7	32
213	Ultrastrong duplex high-entropy alloy with 2 GPa cryogenic strength enabled by an accelerated martensitic transformation. <i>Scripta Materialia</i> , 2019 , 171, 67-72	5.6	40
212	FCC to BCC transformation-induced plasticity based on thermodynamic phase stability in novel VCrFeCoNi medium-entropy alloys. <i>Scientific Reports</i> , 2019 , 9, 2948	4.9	38
211	Dislocation Behavior and Grain Boundary Segregation of MgZn Alloys. <i>Minerals, Metals and Materials Series</i> , 2019 , 215-218	0.3	
210	Plastic Deformation Behavior of 40Fe ₂ 5Ni ₅ 5Cr ₁₀ Co ₁₀ V High-Entropy Alloy for Cryogenic Applications. <i>Metals and Materials International</i> , 2019 , 25, 277-284	2.4	37
209	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , 2019 , 7, 82-88	7.4	80

208	Effects of V or Cu Addition on High-Temperature Tensile Properties of High-Ni-Containing Austenitic Cast Steels Used for High-Performance Turbo-Charger Housings. <i>Metals and Materials International</i> , 2019 , 25, 285-294	2.4	0
207	Authors' Reply to Discussion of Effects of Cr Reduction on High-Temperature Strength of High-Ni Austenitic Cast Steels Used for High-Performance Turbochargers. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1098-1100	2.3	
206	Experimental investigation and phase diagram of CoCrMnNiBe system bridging high-entropy alloys and high-alloyed steels. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 320-327	5.7	22
205	Effect of δ -precipitates on the microstructure and mechanical properties of non-equiatomic CoCrFeNiMo medium-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 75-83	5.7	49
204	Utilization of brittle δ phase for strengthening and strain hardening in ductile VCrFeNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 665-674	5.3	32
203	Effects of Zn on $\langle c + a \rangle$ slip and grain boundary segregation of Mg alloys. <i>Scripta Materialia</i> , 2019 , 160, 39-43	5.6	33
202	Modified embedded-atom method interatomic potentials for pure Zn and Mg-Zn binary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018 , 60, 200-207	1.9	16
201	Critical assessment of Pt surface energy. An atomistic study. <i>Surface Science</i> , 2018 , 670, 8-12	1.8	5
200	Understanding the physical metallurgy of the CoCrFeMnNi high-entropy alloy: an atomistic simulation study. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	269
199	Dislocation binding as an origin for the improvement of room temperature ductility in Mg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 715, 266-275	5.3	26
198	Grain boundary engineering approach to improve hydrogen embrittlement resistance in Fe Mn C TWIP steel. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10129-10140	6.7	23
197	Role of brittle sigma phase in cryogenic-temperature-strength improvement of non-equi-atomic Fe-rich VCrMnFeCoNi high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 403-410	5.3	33
196	Influence of hydrogen on the grain boundary crack propagation in bcc iron: A molecular dynamics simulation. <i>Computational Materials Science</i> , 2018 , 149, 424-434	3.2	14
195	Isothermal Treatment Effects on Precipitates and Tensile Properties of an HSLA Steel. <i>Metals and Materials International</i> , 2018 , 24, 525-531	2.4	2
194	Effects of homogenization temperature on cracking during cold-rolling of Al _{0.5} CoCrFeMnNi high-entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 187-191	4.4	12
193	An interatomic potential for the Li-Co-O ternary system. <i>Computational Materials Science</i> , 2018 , 142, 47-58	3.2	9
192	A numerical model to predict mechanical properties of Ni-base disk superalloys. <i>International Journal of Plasticity</i> , 2018 , 110, 123-144	7.6	15
191	An approach for screening single phase high-entropy alloys using an in-house thermodynamic database. <i>Intermetallics</i> , 2018 , 101, 56-63	3.5	12

190	Microstructure and Mechanical Properties of High-Entropy Alloy CoCrFeMnNi Processed by High-Pressure Torsion at 77 K and 300 K. <i>Scientific Reports</i> , 2018 , 8, 11074	4.9	30
189	Second nearest-neighbor modified embedded-atom method interatomic potentials for the Pd-M (M = Al, Co, Cu, Fe, Mo, Ni, Ti) binary systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018 , 62, 172-186	1.9	10
188	Role of atomic-scale chemical heterogeneities in improving the plasticity of Cu-Zr-Ag bulk amorphous alloys. <i>Acta Materialia</i> , 2018 , 157, 209-217	8.4	16
187	A Thermodynamic Modelling of the Stability of Sigma Phase in the Cr-Fe-Ni-V High-Entropy Alloy System. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 694-701	1	16
186	Effects of Cr Reduction on High-Temperature Strength of High-Ni Austenitic Cast Steels Used for High-Performance Turbo-chargers. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 4604-4614	2.3	3
185	Improvement of tensile properties in (austenite+ferrite+carbide) triplex hot-rolled lightweight steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 730, 177-186	5.3	9
184	Origin of radiation resistance in multi-principal element alloys. <i>Scientific Reports</i> , 2018 , 8, 16015	4.9	21
183	Exceptional phase-transformation strengthening of ferrous medium-entropy alloys at cryogenic temperatures. <i>Acta Materialia</i> , 2018 , 161, 388-399	8.4	100
182	Data to reproduce and modify "An approach for screening single phase high-entropy alloys using an in-house thermodynamic database". <i>Data in Brief</i> , 2018 , 20, 1337-1339	1.2	5
181	Modified embedded-atom method interatomic potentials for the Co-Cr, Co-Fe, Co-Mn, Cr-Mn and Mn-Ni binary systems. <i>Computational Materials Science</i> , 2017 , 130, 121-129	3.2	38
180	Interpretation of high-temperature tensile properties by thermodynamically calculated equilibrium phase diagrams of heat-resistant austenitic cast steels. <i>Metals and Materials International</i> , 2017 , 23, 43-53	2.4	4
179	Deformation-induced phase transformation of Co 20 Cr 26 Fe 20 Mn 20 Ni 14 high-entropy alloy during high-pressure torsion at 77 K. <i>Materials Letters</i> , 2017 , 202, 86-88	3.3	40
178	Effects of C and Si on strain aging of strain-based API X60 pipeline steels. <i>Metals and Materials International</i> , 2017 , 23, 450-458	2.4	8
177	Replacement of Ni by Mn in High-Ni-Containing Austenitic Cast Steels used for Turbo-Charger Application. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 568-574	2.3	4
176	The phase stability of equiatomic CoCrFeMnNi high-entropy alloy: Comparison between experiment and calculation results. <i>Journal of Alloys and Compounds</i> , 2017 , 719, 189-193	5.7	62
175	Cryogenic strength improvement by utilizing room-temperature deformation twinning in a partially recrystallized VCrMnFeCoNi high-entropy alloy. <i>Nature Communications</i> , 2017 , 8, 15719	17.4	190
174	Interatomic Potential of LiMnO and Molecular Dynamics Simulations on Li Diffusion in Spinel Li _{1-x} Mn ₂ O ₄ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13008-13017	3.8	10
173	Modified embedded-atom interatomic potential for Fe-Ni, Cr-Ni and Fe-Cr-Ni systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 57, 98-106	1.9	33

172	Modified embedded-atom method interatomic potentials for Mg-Nd and Mg-Pb binary systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 57, 55-61	1.9	7
171	Effects of Mn and Mo addition on high-temperature tensile properties in high-Ni-containing austenitic cast steels used for turbo-charger application. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 147-155	5.3	13
170	Second nearest-neighbor modified embedded-atom method interatomic potentials for the Pt-M (M = Al, Co, Cu, Mo, Ni, Ti, V) binary systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 59, 131-141	1.9	17
169	Design of new Face-centered cubic high entropy alloys by thermodynamic calculation. <i>Metals and Materials International</i> , 2017 , 23, 839-847	2.4	48
168	Development and application of Ni-Ti and Ni-Al-Ti 2NN-MEAM interatomic potentials for Ni-base superalloys. <i>Computational Materials Science</i> , 2017 , 139, 225-233	3.2	14
167	Understanding on the Role of Rare Earth Elements in Activation of ($\{110\} + \{111\}$) Slip in Magnesium: An Atomistic Approach. <i>Minerals, Metals and Materials Series</i> , 2017 , 491-495	0.3	93
166	Computational screening of alloying elements for the development of sustainable V-based hydrogen separation membranes. <i>Journal of Membrane Science</i> , 2016 , 497, 270-281	9.6	6
165	3D simulations of grain growth in polycrystalline sheets and rods: Effects of free surface and shape of specimen. <i>Scripta Materialia</i> , 2016 , 110, 113-116	5.6	3
164	Effects of Cr and Nb addition on high-temperature tensile properties in austenitic cast steels used for turbo-charger application. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 677, 316-324	5.3	9
163	A modified embedded-atom method interatomic potential for ionic systems: 2NNMEAM+Qeq. <i>Physical Review B</i> , 2016 , 93,	3.3	11
162	Thermodynamic properties of phase-field models for grain boundary segregation. <i>Acta Materialia</i> , 2016 , 112, 150-161	8.4	11
161	An intermediate temperature creep model for Ni-based superalloys. <i>International Journal of Plasticity</i> , 2016 , 79, 153-175	7.6	33
160	{100} texture evolution in bcc Fe sheets - Computational design and experiments. <i>Acta Materialia</i> , 2016 , 106, 106-116	8.4	18
159	Effects of tungsten and molybdenum on high-temperature tensile properties of five heat-resistant austenitic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 656, 190-199	5.3	19
158	Novel strip-cast Mg/Al clad sheets with excellent tensile and interfacial bonding properties. <i>Scientific Reports</i> , 2016 , 6, 26333	4.9	4
157	Enhanced high temperature hydrogen permeation characteristics of VNi alloy membranes containing a trace amount of yttrium. <i>Scripta Materialia</i> , 2016 , 116, 122-126	5.6	16
156	Atomistic modeling of the TiAl binary system. <i>Computational Materials Science</i> , 2016 , 119, 1-8	3.2	28
155	Effect of Austenite Stability on Microstructural Evolution and Tensile Properties in Intercritically Annealed Medium-Mn Lightweight Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2674-2685	2.3	35

154	Microstructural analysis of cracking phenomenon occurring during cold rolling of (0.1~0.7)C-3Mn-5Al lightweight steels. <i>Metals and Materials International</i> , 2015 , 21, 43-53	2.4	29
153	Novel ultra-high-strength (ferrite + austenite) duplex lightweight steels achieved by fine dislocation substructures (Taylor lattices), grain refinement, and partial recrystallization. <i>Acta Materialia</i> , 2015 , 96, 301-310	8.4	99
152	Modified embedded-atom interatomic potential for Co/W and Al/W systems. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 907-914	3.3	3
151	Modified embedded-atom method interatomic potentials for the Ni/Co binary and the Ni/Al/Co ternary systems. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 055004	2	23
150	Role of yttrium in activation of < c + a > slip in magnesium: An atomistic approach. <i>Scripta Materialia</i> , 2015 , 108, 104-108	5.6	76
149	Dynamic tension-compression asymmetry of martensitic transformation in austenitic Fe(0.4, 1.0)C-8Mn steels for cryogenic applications. <i>Acta Materialia</i> , 2015 , 96, 37-46	8.4	25
148	Effects of Mn and Al contents on cryogenic-temperature tensile and Charpy impact properties in four austenitic high-Mn steels. <i>Acta Materialia</i> , 2015 , 100, 39-52	8.4	117
147	Modified embedded-atom method interatomic potentials for Mg/X (X=Y, Sn, Ca) binary systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2015 , 48, 27-34	1.9	51
146	Effect of a high angle grain boundary on deformation behavior of Al nanopillars. <i>Scripta Materialia</i> , 2015 , 107, 5-9	5.6	27
145	Atmospheric pressure plasma treatment on graphene grown by chemical vapor deposition. <i>Current Applied Physics</i> , 2015 , 15, 563-568	2.6	16
144	Improvement of interfacial bonding strength in roll-bonded Mg/Al clad sheets through annealing and secondary rolling process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 628, 1-10	5.3	53
143	A Comparative Study on Hydrogen Diffusion in Amorphous and Crystalline Metals Using a Molecular Dynamics Simulation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2906-2915	2.3	30
142	Governing factors for the formation of 4H or 6H-SiC polytype during SiC crystal growth: An atomistic computational approach. <i>Journal of Crystal Growth</i> , 2014 , 389, 120-133	1.6	17
141	Origin of unrealistic blunting during atomistic fracture simulations based on MEAM potentials. <i>Philosophical Magazine</i> , 2014 , 94, 1745-1753	1.6	19
140	Effects of Mn Addition on Tensile and Charpy Impact Properties in Austenitic Fe-Mn-C-Al-Based Steels for Cryogenic Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5419-5430	2.3	35
139	A semi-empirical methodology to predict hydrogen permeability in amorphous alloy membranes. <i>Journal of Membrane Science</i> , 2014 , 472, 102-109	9.6	3
138	Theory for plasticity of face-centered cubic metals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6560-5	11.5	69
137	Design of sustainable V-based hydrogen separation membranes based on grain boundary segregation. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12031-12044	6.7	16

136	Design of cost-effective Fe-based amorphous coating alloys having high amorphous forming ability by thermodynamic calculation. <i>Metals and Materials International</i> , 2014 , 20, 577-583	2.4	9
135	Phase-field modeling for 3D grain growth based on a grain boundary energy database. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 034004	2	43
134	Effects of Annealing Treatment Prior to Cold Rolling on the Edge Cracking Phenomenon of Ferritic Lightweight Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 3844-3856	2.3	17
133	Atomistic modeling for interfacial properties of Ni-Al-V ternary system. <i>Metals and Materials International</i> , 2014 , 20, 423-429	2.4	5
132	Microstructural Developments and Tensile Properties of Lean Fe-Mn-Al-C Lightweight Steels. <i>Jom</i> , 2014 , 66, 1857-1867	2.1	16
131	Structural changes during lithiation and delithiation of Si anodes in Li-ion batteries: A large scale molecular dynamics study. <i>Metals and Materials International</i> , 2014 , 20, 1003-1009	2.4	10
130	Effect of Mn Addition on Microstructural Modification and Cracking Behavior of Ferritic Light-Weight Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5469-5485	2.3	11
129	Effects of Phosphorus and Carbon Contents on Amorphous Forming Ability in Fe-based Amorphous Alloys Used for Thermal Spray Coatings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2573-2580	2.3	7
128	Effect of Tempering Time on Microstructure, Tensile Properties, and Deformation Behavior of a Ferritic Light-Weight Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 235-247	2.3	11
127	Effects of intergranular carbide precipitation on delayed fracture behavior in three TWinning Induced Plasticity (TWIP) steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 587, 85-99	5.3	32
126	Effect of annealing temperature on microstructural modification and tensile properties in 0.35 C/0.5 Mn/0.8 Al lightweight steel. <i>Acta Materialia</i> , 2013 , 61, 5050-5066	8.4	88
125	Thermodynamic analysis of the effect of C, Mn and Al on microstructural evolution of lightweight steels. <i>Scripta Materialia</i> , 2013 , 68, 339-342	5.6	25
124	Effects of aluminum content on cracking phenomenon occurring during cold rolling of three ferrite-based lightweight steel. <i>Acta Materialia</i> , 2013 , 61, 5626-5635	8.4	38
123	Prediction of hydrogen permeability in V/Al and V/Ni alloys. <i>Journal of Membrane Science</i> , 2013 , 430, 234-241	9.6	16
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