

B-J Lee

List of Publications by Year in descending order

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265
papers

12,314
citations

24978

57
h-index

34900

98
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272
all docs

272
docs citations

272
times ranked

6847
citing authors

#	ARTICLE	IF	CITATIONS
1	Second nearest-neighbor modified embedded-atom-method potential. <i>Physical Review B</i> , 2000, 62, 8564-8567.	1.1	533
2	Second nearest-neighbor modified embedded atom method potentials for bcc transition metals. <i>Physical Review B</i> , 2001, 64, .	1.1	519
3	Understanding the physical metallurgy of the CoCrFeMnNi high-entropy alloy: an atomistic simulation study. <i>Npj Computational Materials</i> , 2018, 4, .	3.5	501
4	Semiempirical atomic potentials for the fcc metals Cu, Ag, Au, Ni, Pd, Pt, Al, and Pb based on first and second nearest-neighbor modified embedded atom method. <i>Physical Review B</i> , 2003, 68, .	1.1	446
5	Cryogenic strength improvement by utilizing room-temperature deformation twinning in a partially recrystallized VCrMnFeCoNi high-entropy alloy. <i>Nature Communications</i> , 2017, 8, 15719.	5.8	278
6	Prediction of interface reaction products between Cu and various solder alloys by thermodynamic calculation. <i>Acta Materialia</i> , 1997, 45, 1867-1874.	3.8	242
7	On the stability of Cr carbides. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1992, 16, 121-149.	0.7	220
8	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.	2.6	200
9	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.	3.8	194
10	Thermal stability of unsupported gold nanoparticle: a molecular dynamics study. <i>Surface Science</i> , 2002, 512, 262-268.	0.8	175
11	Modified embedded-atom method interatomic potentials for Ti and Zr. <i>Physical Review B</i> , 2006, 74, .	1.1	174
12	Exceptional phase-transformation strengthening of ferrous medium-entropy alloys at cryogenic temperatures. <i>Acta Materialia</i> , 2018, 161, 388-399.	3.8	174
13	A modified embedded-atom method interatomic potential for the Fe-C system. <i>Acta Materialia</i> , 2006, 54, 701-711.	3.8	159
14	Thermodynamic assessments of the Sn-In and Sn-Bi binary systems. <i>Journal of Electronic Materials</i> , 1996, 25, 983-991.	1.0	146
15	The modified embedded-atom method interatomic potentials and recent progress in atomistic simulations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2010, 34, 510-522.	0.7	140
16	Novel Co-rich high entropy alloys with superior tensile properties. <i>Materials Research Letters</i> , 2019, 7, 82-88.	4.1	139
17	Revision of thermodynamic descriptions of the Fe-Cr & Fe-Ni liquid phases. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1993, 17, 251-268.	0.7	135
18	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.	3.8	135

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19	Development of strong and ductile metastable face-centered cubic single-phase high-entropy alloys. <i>Acta Materialia</i> , 2019, 181, 318-330.	3.8	134
20	Modified embedded-atom method interatomic potentials for the Ti-C and Ti-N binary systems. <i>Acta Materialia</i> , 2008, 56, 3481-3489.	3.8	127
21	A thermodynamic study on the Ag-Sb-Sn system. <i>Journal of Alloys and Compounds</i> , 1996, 238, 155-166.	2.8	124
22	Thermodynamic calculation on the stability of (Fe,Mn) ₃ AlC carbide in high aluminum steels. <i>Journal of Alloys and Compounds</i> , 2010, 505, 217-223.	2.8	120
23	Thermodynamics-aided alloy design and evaluation of Pb-free solder, SnBiInZn system. <i>Acta Materialia</i> , 1997, 45, 951-960.	3.8	117
24	Role of yttrium in activation of ϵ + α slip in magnesium: An atomistic approach. <i>Scripta Materialia</i> , 2015, 108, 104-108.	2.6	116
25	Effect of annealing temperature on microstructural modification and tensile properties in 0.35 C-3.5 Mn-5.8 Al lightweight steel. <i>Acta Materialia</i> , 2013, 61, 5050-5066.	3.8	113
26	Atomistic Modeling of pure Mg and Mg-Al systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2009, 33, 650-657.	0.7	112
27	Thermodynamic Evaluation for the Y ₂ O ₃ -BaO-CuOx System. <i>Journal of the American Ceramic Society</i> , 1991, 74, 78-84.	1.9	103
28	Origin of the plasticity in bulk amorphous alloys. <i>Journal of Materials Research</i> , 2007, 22, 3087-3097.	1.2	98
29	Thermodynamic assessment of the Fe-Nb-Ti-C-N system. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001, 32, 2423-2439.	1.1	97
30	The origin of (001) texture evolution in FePt thin films on amorphous substrates. <i>Journal of Applied Physics</i> , 2006, 99, 053906.	1.1	95
31	Modified embedded-atom method interatomic potentials for the Fe-Ti-C and Fe-Ti-N ternary systems. <i>Acta Materialia</i> , 2009, 57, 3140-3147.	3.8	93
32	Deformation-induced nanocrystallization and its influence on work hardening in a bulk amorphous matrix composite. <i>Acta Materialia</i> , 2004, 52, 1525-1533.	3.8	90
33	Molecular dynamics simulation study of the effect of grain size on the deformation behavior of nanocrystalline body-centered cubic iron. <i>Scripta Materialia</i> , 2011, 64, 494-497.	2.6	90
34	Effect of $\frac{1}{4}$ -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.	2.8	90
35	Thermodynamic prediction of interface phases at Cu/solder joints. <i>Journal of Electronic Materials</i> , 1998, 27, 1161-1166.	1.0	89
36	Thermodynamic assessments of the Sn-Zn and In-Zn binary systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1996, 20, 471-480.	0.7	88

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37	Theory for plasticity of face-centered cubic metals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6560-6565.	3.3	87
38	A modified embedded atom method interatomic potential for silicon. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 95-104.	0.7	85
39	The phase stability of equiatomic CoCrFeMnNi high-entropy alloy: Comparison between experiment and calculation results. Journal of Alloys and Compounds, 2017, 719, 189-193.	2.8	83
40	A new strategy for designing immiscible medium-entropy alloys with excellent tensile properties. Acta Materialia, 2020, 193, 71-82.	3.8	80
41	Thermal destabilization of binary and complex metal hydrides by chemical reaction: A thermodynamic analysis. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2006, 30, 65-69.	0.7	77
42	Improvement of interfacial bonding strength in roll-bonded Mg/Al clad sheets through annealing and secondary rolling process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 1-10.	2.6	76
43	Ultrastrong duplex high-entropy alloy with 2 GPa cryogenic strength enabled by an accelerated martensitic transformation. Scripta Materialia, 2019, 171, 67-72.	2.6	76
44	A modified embedded-atom method interatomic potential for the Fe-H system. Acta Materialia, 2007, 55, 6779-6788.	3.8	75
45	A modified embedded atom method interatomic potential for carbon. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2005, 29, 7-16.	0.7	74
46	Modified embedded-atom method interatomic potentials for Mg-X (X=Y, Sn, Ca) binary systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 48, 27-34.	0.7	73
47	Effects of carbide precipitation on the strength and Charpy impact properties of low carbon Mn-Ni-Mo bainitic steels. Journal of Nuclear Materials, 2001, 297, 138-148.	1.3	72
48	A modified embedded-atom method interatomic potential for the Fe-N system: A comparative study with the Fe-C system. Acta Materialia, 2006, 54, 4597-4607.	3.8	72
49	FCC to BCC transformation-induced plasticity based on thermodynamic phase stability in novel V10Cr10Fe45Co _x Ni35-x medium-entropy alloys. Scientific Reports, 2019, 9, 2948.	1.6	71
50	Modified embedded-atom method interatomic potentials for the Co-Cr, Co-Fe, Co-Mn, Cr-Mn and Mn-Ni binary systems. Computational Materials Science, 2017, 130, 121-129.	1.4	70
51	Thermodynamic calculation of LiH ⁺ Li ₃ AlH ₆ ⁺ LiAlH ₄ reactions. Journal of Alloys and Compounds, 2006, 420, 286-290.	2.8	69
52	Modified embedded-atom method interatomic potentials for pure Mn and the Fe-Mn system. Acta Materialia, 2009, 57, 474-482.	3.8	67
53	Utilization of brittle γ_f phase for strengthening and strain hardening in ductile VCrFeNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 665-674.	2.6	67
54	A Thermodynamic Evaluation of the Cr-Mn and Fe-Cr-Mn Systems. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1993, 24, 1919-1933.	1.4	65

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55	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.	0.7	65
56	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.	1.1	59
57	Design of new face-centered cubic high entropy alloys by thermodynamic calculation. <i>Metals and Materials International</i> , 2017, 23, 839-847.	1.8	59
58	Precipitation-driven metastability engineering of carbon-doped CoCrFeNiMo medium-entropy alloys at cryogenic temperature. <i>Scripta Materialia</i> , 2020, 188, 140-145.	2.6	59
59	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.	2.6	57
60	Cryogenic-temperature fracture toughness analysis of non-equi-atomic V10Cr10Fe45Co20Ni15 high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151864.	2.8	57
61	Calculation of Phase Diagrams for the YO1.5-BaO-CuOx System. <i>Journal of the American Ceramic Society</i> , 1989, 72, 314-319.	1.9	56
62	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.	0.8	56
63	Modified embedded-atom method interatomic potential for the Fe-Cu alloy system and cascade simulations on pure Fe and Fe-Cu alloys. <i>Physical Review B</i> , 2005, 71, .	1.1	55
64	Intergranular segregation of Cr in Ti-stabilized low-Cr ferritic stainless steel. <i>Scripta Materialia</i> , 2009, 61, 1133-1136.	2.6	55
65	An identification scheme of grain boundaries and construction of a grain boundary energy database. <i>Scripta Materialia</i> , 2011, 64, 1152-1155.	2.6	55
66	Deformation-induced phase transformation of Co20Cr26Fe20Mn20Ni14 high-entropy alloy during high-pressure torsion at 77 K. <i>Materials Letters</i> , 2017, 202, 86-88.	1.3	55
67	An intermediate temperature creep model for Ni-based superalloys. <i>International Journal of Plasticity</i> , 2016, 79, 153-175.	4.1	54
68	Applications of computational thermodynamics – the extension from phase equilibrium to phase transformations and other properties. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007, 31, 53-74.	0.7	53
69	Molecular dynamics simulation of the crystallization of a liquid gold nanoparticle. <i>Journal of Crystal Growth</i> , 2003, 250, 558-564.	0.7	52
70	Effects of Zn on ϵ - α slip and grain boundary segregation of Mg alloys. <i>Scripta Materialia</i> , 2019, 160, 39-43.	2.6	52
71	Deformation behavior of a Co-Cr-Fe-Ni-Mo medium-entropy alloy at extremely low temperatures. <i>Materials Today</i> , 2021, 50, 55-68.	8.3	51
72	Prediction of composition dependency of glass forming ability of Mg-Cu-Y alloys by thermodynamic approach. <i>Scripta Materialia</i> , 2005, 52, 969-972.	2.6	50

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73	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.	3.8	50
74	Modified embedded-atom method interatomic potentials for the Fe-Nb and Fe-Ti binary systems. <i>Scripta Materialia</i> , 2008, 59, 595-598.	2.6	49
75	Atomistic modeling of the Ti-Al binary system. <i>Computational Materials Science</i> , 2016, 119, 1-8.	1.4	49
76	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.	2.6	49
77	A thermodynamic evaluation of the Fe-Cr-V-C system. <i>Journal of Phase Equilibria and Diffusion</i> , 1992, 13, 349-364.	0.3	48
78	Effects of Annealing Temperature on Microstructure and Tensile Properties in Ferritic Lightweight Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 843-853.	1.1	47
79	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.	2.8	46
80	Plastic Deformation Behavior of 40Fe-25Ni-15Cr-10Co-10V High-Entropy Alloy for Cryogenic Applications. <i>Metals and Materials International</i> , 2019, 25, 277-284.	1.8	46
81	A modified embedded-atom method interatomic potential for the Cu-Zr system. <i>Journal of Materials Research</i> , 2008, 23, 1095-1104.	1.2	45
82	Atomistic modeling of pure Li and Mg-Li system. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012, 20, 035005.	0.8	45
83	Microstructure and Mechanical Properties of High-Entropy Alloy Co ₂₀ Cr ₂₆ Fe ₂₀ Mn ₂₀ Ni ₁₄ Processed by High-Pressure Torsion at 77%K and 300%K. <i>Scientific Reports</i> , 2018, 8, 11074.	1.6	45
84	Atomistic modeling of pure Co and Co-Al system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012, 38, 7-16.	0.7	44
85	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.	3.8	44
86	Stress induced crystallization of amorphous materials and mechanical properties of nanocrystalline materials: a molecular dynamics simulation study. <i>Acta Materialia</i> , 2003, 51, 6233-6240.	3.8	42
87	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.	1.1	41
88	Origin of radiation resistance in multi-principal element alloys. <i>Scientific Reports</i> , 2018, 8, 16015.	1.6	41
89	Effects of transformation-induced plasticity (TRIP) on tensile property improvement of Fe ₄₅ Co ₃₀ Cr ₁₀ V ₁₀ Ni _{5-x} Mn _x high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138809.	2.6	41
90	Computation of grain boundary energies. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004, 12, 621-632.	0.8	40

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91	A semi-empirical atomic potential for the Fe-Cr binary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2001, 25, 527-534.	0.7	38
92	Size dependency of melting point of crystalline nano particles and nano wires: A thermodynamic modeling. <i>Metals and Materials International</i> , 2009, 15, 531-537.	1.8	37
93	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.	2.8	37
94	Modified embedded-atom method interatomic potential for the Fe-Pt alloy system. <i>Journal of Materials Research</i> , 2006, 21, 199-208.	1.2	36
95	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.	2.6	36
96	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.	1.1	36
97	Effect of microstructure on the cleavage fracture strength of low carbon Mn-Ni-Mo bainitic steels. <i>Journal of Nuclear Materials</i> , 2004, 324, 33-40.	1.3	35
98	Thermodynamic Calculations on the Stability of Cu ₂ S in Low Carbon Steels. <i>ISIJ International</i> , 2007, 47, 163-171.	0.6	35
99	Effect of a high angle grain boundary on deformation behavior of Al nanopillars. <i>Scripta Materialia</i> , 2015, 107, 5-9.	2.6	35
100	Dynamic tension-compression asymmetry of martensitic transformation in austenitic Fe-(0.4) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.8	35
101	Behavior of amorphous materials under hydrostatic pressures: A molecular dynamics simulation study. <i>Metals and Materials International</i> , 2004, 10, 467-474.	1.8	33
102	Thermodynamic assessment of the NaH-Na ₃ AlH ₆ -NaAlH ₄ hydride system. <i>Journal of Alloys and Compounds</i> , 2006, 424, 370-375.	2.8	33
103	Shear localization and the plasticity of bulk amorphous alloys. <i>Scripta Materialia</i> , 2010, 63, 231-234.	2.6	33
104	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.	0.7	33
105	Experimental investigation and phase diagram of CoCrMnNi-Fe system bridging high-entropy alloys and high-alloyed steels. <i>Journal of Alloys and Compounds</i> , 2019, 785, 320-327.	2.8	32
106	Correlation between plasticity and other materials properties of Cu-Zr bulk metallic glasses: An atomistic simulation study. <i>Acta Materialia</i> , 2011, 59, 805-811.	3.8	31
107	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.	3.8	31
108	Modified embedded-atom method interatomic potentials for Mg-Al-Ca and Mg-Al-Zn ternary systems. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 317-335.	5.5	31

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109	Activation of non-basal <math>\{10\bar{1}0\}</math> slip in multicomponent Mg alloys. Journal of Magnesium and Alloys, 2022, 10, 585-597.	5.5	31
110	Thermodynamic approach for predicting the glass forming ability of amorphous alloys. Intermetallics, 2004, 12, 1103-1107.	1.8	30
111	Thermodynamic analysis of the effect of C, Mn and Al on microstructural evolution of lightweight steels. Scripta Materialia, 2013, 68, 339-342.	2.6	30
112	Modified embedded-atom method interatomic potentials for the Ni-Al-Co binary and the Ni-Al-Co ternary systems. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 055004.	0.8	30
113	Second nearest-neighbor modified embedded-atom method interatomic potentials for the Pt-M (M = Al, Ti) system. Thermochemistry, 2017, 59, 131-141.	1.0784314	30
114	Investigation of the phase equilibria in the Sn-Bi-In alloy system. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 1503-1515.	1.1	29
115	Sputter erosion of Si(001) using a new silicon MEAM potential and different thermostats. Nuclear Instruments & Methods in Physics Research B, 2007, 255, 195-201.	0.6	29
116	Effect of stress on self-diffusion in bcc Fe: An atomistic simulation study. Scripta Materialia, 2010, 63, 39-42.	2.6	29
117	Microstructural analysis of cracking phenomenon occurring during cold rolling of (0.1~0.7)C-3Mn-5Al lightweight steels. Metals and Materials International, 2015, 21, 43-53.	1.8	29
118	A numerical model to predict mechanical properties of Ni-base disk superalloys. International Journal of Plasticity, 2018, 110, 123-144.	4.1	29
119	A thermodynamic description of the Co-Cr-Fe-Ni-V system for high-entropy alloy design. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 66, 101624.	0.7	28
120	Effects of Cr addition on Charpy impact energy in austenitic 0.45C-24Mn-(0,3,6)Cr steels. Journal of Materials Science and Technology, 2020, 50, 21-30.	5.6	28
121	Atomistic modeling of the Cu-Zr-Ag bulk metallic glass system. Scripta Materialia, 2009, 61, 801-804.	2.6	27
122	Modified embedded-atom method interatomic potentials for the Nb-C, Nb-N, Fe-Nb-C, and Fe-Nb-N systems. Journal of Materials Research, 2010, 25, 1288-1297.	1.2	27
123	Development and application of Ni-Ti and Ni-Al-Ti 2NN-MEAM interatomic potentials for Ni-base superalloys. Computational Materials Science, 2017, 139, 225-233.	1.4	27
124	Influence of hydrogen on the grain boundary crack propagation in bcc iron: A molecular dynamics simulation. Computational Materials Science, 2018, 149, 424-434.	1.4	27
125	A Thermodynamic Modelling of the Stability of Sigma Phase in the Cr-Fe-Ni-V High-Entropy Alloy System. Journal of Phase Equilibria and Diffusion, 2018, 39, 694-701.	0.5	27
126	A thermodynamic study on the MnC and FeMn systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1989, 13, 345-354.	0.7	26

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127	A modified embedded atom method interatomic potential for the Cu–Ni system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2004, 28, 125-132.	0.7	26
128	Order–disorder character of PbTiO ₃ . <i>Journal of Physics Condensed Matter</i> , 2008, 20, 015224.	0.7	26
129	Modified embedded-atom method interatomic potential for the Fe–Al system. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 175702.	0.7	26
130	{100} texture evolution in bcc Fe sheets - Computational design and experiments. <i>Acta Materialia</i> , 2016, 106, 106-116.	3.8	26
131	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.	0.7	26
132	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.	2.6	26
133	Strain hardening of an amorphous matrix composite due to deformation-induced nanocrystallization during quasistatic compression. <i>Applied Physics Letters</i> , 2004, 84, 2781-2783.	1.5	25
134	Origin of hydrogen embrittlement in vanadium-based hydrogen separation membranes. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13583-13593.	3.8	25
135	Origin of unrealistic blunting during atomistic fracture simulations based on MEAM potentials. <i>Philosophical Magazine</i> , 2014, 94, 1745-1753.	0.7	25
136	Enhanced high temperature hydrogen permeation characteristics of V–Ni alloy membranes containing a trace amount of yttrium. <i>Scripta Materialia</i> , 2016, 116, 122-126.	2.6	25
137	Formulation of the A2/B2/D03 atomic ordering energy and a thermodynamic analysis of the Fe-Si system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1987, 11, 253-270.	0.7	24
138	Prediction of hydrogen permeability in V–Al and V–Ni alloys. <i>Journal of Membrane Science</i> , 2013, 430, 234-241.	4.1	24
139	Microstructural Developments and Tensile Properties of Lean Fe-Mn-Al-C Lightweight Steels. <i>Jom</i> , 2014, 66, 1857-1867.	0.9	24
140	Effect of Al addition on deformation behavior of Mg. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 489-498.	5.5	24
141	A thermodynamic evaluation of the Fe-Cr-Mn-C system. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993, 24, 1017-1025.	1.4	23
142	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.	2.6	23
143	Atomistic modeling of III–V nitrides: modified embedded-atom method interatomic potentials for GaN, InN and Ga _{1-x} In _x N. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 325801.	0.7	22
144	Atmospheric pressure plasma treatment on graphene grown by chemical vapor deposition. <i>Current Applied Physics</i> , 2015, 15, 563-568.	1.1	22

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145	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.	2.6	22
146	Effect of alloying elements (Al, Co, Fe, Ni) on the solubility of hydrogen in vanadium: A thermodynamic calculation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7836-7847.	3.8	21
147	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.	2.0	21
148	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.	2.6	21
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