Michael Widom

List of Publications by Year
in descending order

169 papers	5,710 citations	61857 43 h-index	91712 69 g-index
172 all docs	172 docs citations	172 times ranked	4682 citing authors

#	Article	IF	Citations
1	Ductility improvement of amorphous steels: Roles of shear modulus and electronic structure. Acta Materialia, 2008, 56, 88-94.	3.8	188
2	Quasicrystal equilibrium state. Physical Review Letters, 1987, 58, 706-709.	2.9	163
3	Hybrid Monte Carlo/Molecular Dynamics Simulation of a Refractory Metal High Entropy Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 196-200.	1.1	157
4	Radial fingering in a Hele-Shaw cell: a weakly nonlinear analysis. Physica D: Nonlinear Phenomena, 1998, 120, 315-328.	1.3	147
5	Electronic structure and properties of isoreticular metal-organic frameworks: The case of M-IRMOF1 (M=Zn, Cd, Be, Mg, and Ca). Journal of Chemical Physics, 2005, 123, 124713.	1.2	147
6	Thermodynamics of concentrated solid solution alloys. Current Opinion in Solid State and Materials Science, 2017, 21, 238-251.	5.6	142
7	Segregation-induced ordered superstructures at general grain boundaries in a nickel-bismuth alloy. Science, 2017, 358, 97-101.	6.0	130
8	Transfer-matrix analysis of a two-dimensional quasicrystal. Physical Review Letters, 1989, 63, 310-313.	2.9	127
9	Signature of nearly icosahedral structures in liquid and supercooled liquid copper. Physical Review B, 2006, 74, .	1.1	127
10	Ab initiosimulations of geometrical frustration in supercooled liquid Fe and Fe-based metallic glass. Physical Review B, 2008, 77, .	1.1	124
11	Liquid-Liquid Transition in Supercooled Silicon Determined by First-Principles Simulation. Physical Review Letters, 2009, 102, 075701.	2.9	116
12	VASP on a GPU: Application to exact-exchange calculations of the stability of elemental boron. Computer Physics Communications, 2012, 183, 1422-1426.	3.0	115
13	High-throughput design of high-performance lightweight high-entropy alloys. Nature Communications, 2021, 12, 4329.	5.8	112
14	Symmetry, Landau theory and polytope models of glass. Nuclear Physics B, 1984, 240, 113-139.	0.9	109
15	Field-induced forces in colloidal particle chains. Physical Review E, 1995, 51, 2099-2103.	0.8	97
16	Symmetry-broken crystal structure of elemental boron at low temperature. Physical Review B, 2008, 77, .	1.1	97
17	Reassessment of Al-Ce and Al-Nd binary systems supported by critical experiments and first-principles energy calculations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 3269-3279.	1.1	95
18	Superior Highâ€Temperature Strength in a Supersaturated Refractory Highâ€Entropy Alloy. Advanced Materials, 2021, 33, e2102401.	11.1	89

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19	Global phase diagrams for dipolar fluids. Physical Review E, 1994, 49, R3591-R3593.	0.8	87
20	Prediction of A2 to B2 Phase Transition in the High-Entropy Alloy Mo-Nb-Ta-W. Jom, 2013, 65, 1772-1779.	0.9	87
21	First-principles prediction of high-entropy-alloy stability. Npj Computational Materials, 2017, 3, .	3.5	87
22	First-principles interatomic potentials for transition-metal aluminides: Theory and trends across the3dseries. Physical Review B, 1997, 56, 7905-7917.	1.1	83
23	Low-energy electron reflectivity from graphene. Physical Review B, 2013, 87, .	1.1	83
24	Bethe ansatz solution of the square-triangle random tiling model. Physical Review Letters, 1993, 70, 2094-2097.	2.9	78
25	Modeling the structure and thermodynamics of high-entropy alloys. Journal of Materials Research, 2018, 33, 2881-2898.	1.2	78
26	Proximity-induced superconducting gap in the quantum spin Hall edge state of monolayer WTe2. Nature Physics, 2020, 16, 526-530.	6.5	76
27	Ab initiocalculations of cohesive energies ofFe-based glass-forming alloys. Physical Review B, 2004, 70, .	1.1	75
28	Total-energy-based prediction of a quasicrystal structure. Physical Review B, 2002, 65, .	1.1	74
29	Elastic stability and diffuse scattering in icosahedral quasicrystals. Philosophical Magazine Letters, 1991, 64, 297-305.	0.5	68
30	N-color Ashkin-Teller model. Physical Review B, 1981, 24, 6508-6515.	1.1	66
31	Spontaneous magnetic order in random dipolar solids. Physical Review B, 1995, 51, 8951-8957.	1.1	66
32	Quasicrystal Structure and Properties. Annual Review of Physical Chemistry, 1991, 42, 685-729.	4.8	65
33	Ternary Model of an Al-Cu-Co Decagonal Quasicrystal. Physical Review Letters, 1998, 81, 598-601.	2.9	64
34	Strength can be controlled by edge dislocations in refractory high-entropy alloys. Nature Communications, 2021, 12, 5474.	5.8	64
35	Ab initiotheoretical study of magnetization and phase stability of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mtext>Fe</mml:mte Physical Review B, 2008, 78, .	1.1	62
36	Lattice stability of aluminum-rare earth binary systems: A first-principles approach. Physical Review B, 2007, 75, .	1.1	59

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37	Strange objects in the complex plane. Journal of Statistical Physics, 1983, 32, 443-454.	0.5	57
38	Thermodynamic Limit for Dipolar Media. Journal of Statistical Physics, 1998, 93, 109-141.	0.5	56
39	The first-principles design of ductile refractory alloys. Jom, 2008, 60, 61-65.	0.9	51
40	Electronic-structure-based pair potentials for aluminum-rich cobalt compounds. Physical Review B, 1994, 49, 9322-9330.	1.1	47
41	First-principles calculations of cohesive energies in theAlâ^'Cobinary alloy system. Physical Review B, 2007, 75, .	1.1	47
42	Soft modes near the buckling transition of icosahedral shells. Physical Review E, 2007, 76, 031911.	0.8	47
43	Mechanical properties, glass transition temperature, and bond enthalpy trends of high metalloid Fe-based bulk metallic glasses. Applied Physics Letters, 2008, 92, .	1.5	46
44	Low-energy electron reflectivity of graphene on copper and other substrates. Physical Review B, 2013, 87, .	1.1	43
45	Spontaneous magnetic order in strongly coupled ferrofluids. Journal of Magnetism and Magnetic Materials, 1993, 122, 119-122.	1.0	42
46	Structure and stability of Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Fe and Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	42
47	Elastic stability and lattice distortion of refractory high entropy alloys. Materials Chemistry and Physics, 2018, 210, 309-314.	2.0	42
48	Weakly Nonlinear Investigation of the Saffmanâ€“Taylor Problem in a Rectangular Heleâ€“Shaw Cell. International Journal of Modern Physics B, 1998, 12, 931-949.	1.0	40
49	Phase diagram of a random tiling quasicrystal. Journal of Statistical Physics, 1992, 66, 1-69.	0.5	39
50	First-principles interatomic potentials for transition-metal aluminides. III. Extension to ternary phase diagrams. Physical Review B, 2000, 62, 3648-3657.	1.1	39
51	Total-energy-based structure prediction for d(AlNiCo). Journal of Alloys and Compounds, 2002, 342, 221-227.	2.8	38
52	Cluster-based Monte Carlo simulation of ferrofluids. Physical Review E, 1999, 59, 2424-2428.	0.8	37
53	Rayleigh-Taylor instability with magnetic fluids:â€,â€,Experiment and theory. Physical Review E, 2000, 62, 7941-7948.	0.8	37
54	Renormalization group analysis of quasi-periodicity in analytic maps. Communications in Mathematical Physics, 1983, 92, 121-136.	1.0	36

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55	Local organization and atomic clustering in multicomponent amorphous steels. Physical Review B, 2008, 78, .	1.1	33
56	Vibrational Dynamics of Icosahedrally Symmetric Biomolecular Assemblies Compared with Predictions Based on Continuum Elasticity. Biophysical Journal, 2009, 96, 4438-4448.	0.2	33
57	First-principles interatomic potentials for transition-metal aluminides. II. Application to Al-Co and Al-Ni phase diagrams. Physical Review B, 1998, 58, 8967-8979.	1.1	31
58	Stability of Fe-Based Alloys With Structure Type C6Cr23. Journal of Materials Research, 2005, 20, 237-242.	1.2	31
59	Prediction of orientational phase transition in boron carbide. Solid State Sciences, 2012, 14, 1648-1652.	1.5	31
60	Phase stability and elastic properties of Crâ€“V alloys. Journal of Physics Condensed Matter, 2013, 25, 075402.	0.7	31
61	Discussion of phasons in quasicrystals and their dynamics. Philosophical Magazine, 2008, 88, 2339-2350.	0.7	28
62	Renormalization group analysis of bifurcations in area-preserving maps. Physica D: Nonlinear Phenomena, 1982, 5, 287-292.	1.3	25
63	Exact results on the antiferromagnetic three-state Potts model. Physical Review Letters, 1989, 63, 1193-1193.	2.9	25
64	Elongation of confined ferrofluid droplets under applied fields. Physical Review E, 1999, 60, 4272-4279.	0.8	25
65	Transition-metal interactions in aluminum-rich intermetallics. Physical Review B, 2001, 64, .	1.1	25
66	Application of classical nucleation theory to phase selection and composition of nucleated nanocrystals during crystallization of Co-rich (Co,Fe)-based amorphous precursors. Acta Materialia, 2010, 58, 4804-4813.	3.8	25
67	Low-energy electron reflectivity from graphene: First-principles computations and approximate models. Ultramicroscopy, 2013, 130, 101-108.	0.8	24
68	Entropy and Diffuse Scattering: Comparison of NbTiVZr and CrMoNbV. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3306-3311.	1.1	24
69	Icosahedral order in glass: Electronic properties. Physical Review B, 1985, 31, 6456-6468.	1.1	23
70	Canonical cell model of cadmium-based icosahedral alloys. Philosophical Magazine, 2006, 86, 519-527.	0.7	23
71	Use of periodic approximants in a dynamical LEED study of the quasicrystalline tenfold surface of decagonal Al-Ni-Co. Physical Review B, 2006, 73, .	1.1	22
72	Phase transitions of boron carbide: Pair interaction model of high carbon limit. Solid State Sciences, 2015, 47, 21-26.	1.5	22

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73	Information Entropy of Liquid Metals. Journal of Physical Chemistry B, 2018, 122, 3550-3555.	1.2	22
74	Structural model of orthorhombic Al₃Co. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 397-406.	0.6	21
75	First-principles calculation of lattice stability of C15â€“M2R and their hypothetical C15 variants (M=Al,) Tj ETQq1 1 0.784314 rgBT /O 341-348.	0.7	21
76	Elastic properties of Ca-based metallic glasses predicted by first-principles simulations. Physical Review B, 2011, 84, .	1.1	21
77	Comment on â€œLong-Ranged Orientational Order in Dipolar Fluidsâ€• Physical Review Letters, 1995, 74, 2616-2616.	2.9	20
78	Saffman-Taylor problem on a sphere. Physical Review E, 2001, 63, 036307.	0.8	20
79	Glass Formation, Phase Equilibria, and Thermodynamic Assessment of the Al-Ce-Co System Assisted by First-Principles Energy Calculations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2540-2551.	1.1	20
80	Probing hydrogen interactions with amorphous metals using first-principles calculations. Journal of Physics Condensed Matter, 2009, 21, 115402.	0.7	20
81	Predicted phase diagram of boron-carbon-nitrogen. Physical Review B, 2016, 93, .	1.1	20
82	Characterization of hexagonal boron nitride layers on nickel surfaces by low-energy electron microscopy. Surface Science, 2017, 659, 31-42.	0.8	20
83	First-Principles Prediction of a Decagonal Quasicrystal Containing Boron. Physical Review Letters, 2004, 93, 095507.	2.9	19
84	Planar Fe₆ Cluster Units in the Crystal Structure of RE₁₅Fe₈C₂₅ (RE=Y, Dy, Ho, Er). Angewandte Chemie - International Edition, 2010, 49, 5688-5692.	7.2	19
85	Prediction of Structure and Phase Transformations. , 2016, , 267-298.		19
86	A Free Energy Model of Boron Carbide. Journal of Statistical Physics, 2013, 150, 432-441.	0.5	18
87	Atomic correlations in AlCo decagonal approximant phases. Physica A: Statistical Mechanics and Its Applications, 1996, 232, 713-722.	1.2	17
88	Stability analysis of polarized domains. Physical Review E, 1997, 55, 3758-3761.	0.8	16
89	Mode-coupling approach to non-Newtonian Hele-Shaw flow. Physical Review E, 2003, 67, 026313.	0.8	16
90	First-principles study of bismuth films at transition-metal grain boundaries. Physical Review B, 2014, 90, .	1.1	16

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91	Finite-size scaling amplitudes in a random tiling model. Journal of Physics A, 1990, 23, L573-L580.	1.6	15
92	Total energies of decagonal models for quasicrystals. Journal of Non-Crystalline Solids, 1993, 153-154, 416-419.	1.5	15
93	Arctic Octahedron in Three-Dimensional Rhombus Tilings and Related Integer Solid Partitions. Journal of Statistical Physics, 2002, 109, 945-965.	0.5	15
94	First-principles study of CaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>under pressure. Physical Review B, 2013, 88, .	1.1	15
95	Icosahedral order in glass: Acoustic properties. Physical Review B, 1986, 34, 756-763.	1.1	14
96	Crystalline ground states of an entropically stabilized quasicrystal model. Physical Review B, 2001, 64, .	1.1	14
97	Relative stability of Î± and Î² boron. Journal of Physics: Conference Series, 2009, 176, 012024.	0.3	14
98	Structure pulses in a simple nonequilibrium system. Physical Review B, 1982, 25, 1860-1865.	1.1	13
99	Finite-size-scaling amplitudes of the incommensurate phase. Physical Review Letters, 1990, 64, 1076-1079.	2.9	13
100	Random Tilings of High Symmetry: I. Mean-Field Theory. Journal of Statistical Physics, 2005, 120, 799-835.	0.5	12
101	Atomic model of decagonal quasicrystal approximants and phasons. Journal of Non-Crystalline Solids, 1993, 153-154, 282-287.	1.5	11
102	Tile Hamiltonian for decagonal AlCoCu derived from first principles. Physical Review B, 2003, 67, .	1.1	11
103	First-principles phase stability calculations and estimation of finite temperature effects on pseudo-binary Mg6(PdxNi1â^'x) compounds. Intermetallics, 2011, 19, 502-510.	1.8	11
104	Thickness characterization of atomically thin WSe2 on epitaxial graphene by low-energy electron reflectivity oscillations. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	0.6	10
105	Short- and Long-Range Icosahedral Order in Crystals, Glass, and Quasicrystals. Aperiodicity and Order, 1988, , 59-110.	0.3	10
106	Gravity-driven instability in a spherical Hele-Shaw cell. Physical Review E, 2000, 63, 016311.	0.8	9
107	Kinetic Monte Carlo method applied to nucleic acid hairpin folding. Physical Review E, 2011, 84, 061912.	0.8	9
108	Phase diagram of boron carbide with variable carbon composition. Physical Review B, 2017, 95, .	1.1	9

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109	Mysterious SiB₃: Identifying the Relation between Î±- and Î²-SiB₃. ACS Omega, 2019, 4, 18741-18759.	1.6	9
110	Combined energyâ€“diffraction data refinement of decagonal AlNiCo. Journal of Non-Crystalline Solids, 2004, 334-335, 177-183.	1.5	8
111	Tile decoration model of the W-(Alâ€“Coâ€“Ni) approximant. Philosophical Magazine, 2006, 86, 557-565.	0.7	8
112	Thermodynamic modeling of the Pdâ€“S system supported by first-principles calculations. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2010, 34, 324-331.	0.7	8
113	Cell-constrained melt-quench simulation ofd-AlCoNi: Ni-rich versus Co-rich structures. Philosophical Magazine, 2011, 91, 2557-2566.	0.7	8
114	First-principles calculation of elastic moduli of early-late transition metal alloys. Physical Review B, 2014, 89, .	1.1	8
115	Lifshitz and other transitions in alkaline-earth 122 pnictides under pressure. Physical Review B, 2014, 90, .	1.1	8
116	Frequency Estimate for Multicomponent Crystalline Compounds. Journal of Statistical Physics, 2017, 167, 726-734.	0.5	8
117	Parallel flow in Hele-Shaw cells with ferrofluids. Physical Review E, 2000, 61, 2114-2117.	0.8	7
118	X-ray diffraction study and theoretical calculations on the X-phase, Al9(Co,â€‰Ni)4. Philosophical Magazine, 2006, 86, 451-456.	0.7	7
119	Molecular dynamics and firstâ€principles computations of Ga adlayers on GaN(0001). Physica Status Solidi (B): Basic Research, 2008, 245, 920-923.	0.7	7
120	First-principles study of bismuth films on the Ni(111) surface. Physical Review B, 2013, 88, .	1.1	7
121	Inelastic effects in low-energy electron reflectivity of two-dimensional materials. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 02B105.	0.6	7
122	Band structure theory of the bcc to hcp Burgers distortion. Physical Review B, 2018, 98, .	1.1	7
123	First Principles Calculation of the Entropy of Liquid Aluminum. Entropy, 2019, 21, 131.	1.1	7
124	An investigation of high entropy alloy conductivity using first-principles calculations. Applied Physics Letters, 2021, 119, .	1.5	7
125	Repton model of gel electrophoresis in the long chain limit. Physica A: Statistical Mechanics and Its Applications, 1997, 244, 510-521.	1.2	6
126	Tile Hamiltonians for decagonal phases. Journal of Non-Crystalline Solids, 2004, 334-335, 86-90.	1.5	6

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127	First-principles simulation of supercooled liquid alloys. Journal of Physics Condensed Matter, 2008, 20, 114114.	0.7	6
128	Prediction of stable insulating intermetallic compounds. Physical Review B, 2013, 87, .	1.1	6
129	Folding Kinetics of Riboswitch Transcriptional Terminators and Sequesterers. Entropy, 2013, 15, 3088-3099.	1.1	6
130	Surface and grain boundary complexions in transition metal â€“ Bismuth alloys. Current Opinion in Solid State and Materials Science, 2016, 20, 240-246.	5.6	6
131	First-principles study of the electronic structure and the Fermi surface in rare-earth filled skutterudites <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mi>Pt</mml:mi><mml:m Physical Review B, 2019, 100, .	1.1	6
132	2D Ising Model for Adsorptionâ€induced Enantiopurification of Racemates. ChemPhysChem, 2021, 22, 197-203.	1.0	6
133	Amorphous, crystalline or both?. Nature, 1987, 327, 19-19.	13.7	5
134	Conformal invariance in incommensurate phases. Journal of Statistical Physics, 1990, 61, 51-78.	0.5	5
135	Viscous Fingering Patterns in Ferrofluids. Journal of Statistical Physics, 1998, 93, 411-426.	0.5	5
136	Shapes and textures of ferromagnetic liquid droplets. Brazilian Journal of Physics, 2001, 31, 360-365.	0.7	5
137	X-ray diffuse scattering in the icosahedral quasicrystal Al-Pd-Mn. Physical Review B, 2002, 66, .	1.1	5
138	Random Tilings of High Symmetry: II. Boundary Conditions and Numerical Studies. Journal of Statistical Physics, 2005, 120, 837-873.	0.5	5
139	A microscopic continuum model for defect dynamics in metallic glasses. Journal of the Mechanics and Physics of Solids, 2017, 104, 1-11.	2.3	5
140	Averaged cluster approach to including chemical short-range order in KKR-CPA. Physical Review B, 2020, 102, .	1.1	5
141	Spontaneous formation of thermodynamically stable Al-Cu-Fe icosahedral quasicrystal from realistic atomistic simulations. Physical Review Research, 2020, 2, .	1.3	5
142	Two-dimensional random tilings of large codimension: new progress. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 409-412.	2.6	4
143	Order-disorder transition in the Cd-Ca cubic approximant. Materials Research Society Symposia Proceedings, 2003, 805, 50.	0.1	4
144	First-principles coexistence simulations of supercooled liquid silicon. Journal of Non-Crystalline Solids, 2011, 357, 442-445.	1.5	4

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145	Enumeration of octagonal tilings. Theoretical Computer Science, 2015, 598, 40-50.	0.5	4
146	Comment on â€œNew Ground-State Crystal Structure of Elemental Boronâ€• Physical Review Letters, 2017, 118, 159601.	2.9	4
147	Vibrational Entropy of Crystalline Solids from Covariance of Atomic Displacements. Entropy, 2022, 24, 618.	1.1	4
148	Vibrations and melting of an icosahedral polytope. Journal of Physics C: Solid State Physics, 1987, 20, L449-L454.	1.5	3
149	Ab initio energetics of transition metal ordering in decagonal Alâ€“Coâ€“Cu. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 295-298.	2.6	3
150	Ferromagnetic liquid thin films under applied field. Physical Review E, 2000, 61, 4171-4176.	0.8	3
151	Quasicrystal approximants with novel compositions and structures. Materials Research Society Symposia Proceedings, 2003, 805, 112.	0.1	3
152	Arrhenius Lifetimes of RNA Structures from Free Energy Landscapes. Journal of Statistical Physics, 2011, 142, 1337-1352.	0.5	3
153	Formation of graphene atop a Si adlayer on the C-face of SiC. Physical Review Materials, 2019, 3, .	0.9	3
154	Atomic surface occupancy of decagonal AlNiCo. Physical Review B, 2005, 71, .	1.1	2
155	Pressureâ€Driven Enthalpic and Lifshitz Transition in 122â€Pnictides. Contributions To Plasma Physics, 2015, 55, 128-135.	0.5	2
156	Elastic Instability of the Orthorhombic Antiferromagnetic Phase of 122-Pnictides Under Pressure. Journal of Superconductivity and Novel Magnetism, 2016, 29, 685-689.	0.8	2
157	Ab initio free energies of liquid metal alloys: Application to the phase diagrams of Li-Na and K-Na. Physical Review Materials, 2022, 6, .	0.9	2
158	Virial Expansions for Low Dimensional Ferrofluids. Materials Research Society Symposia Proceedings, 1991, 248, 235.	0.1	1
159	Thermodynamic Limit for Polydisperse Fluids. Journal of Statistical Physics, 2001, 104, 725-752.	0.5	1
160	The Mn effect on magnetic structure of FeMn-B amorphous metals. Materials Research Society Symposia Proceedings, 2003, 806, 232.	0.1	1
161	Mean-field density functional theory of a three-phase contact line. Physical Review E, 2012, 85, 011120.	0.8	1
162	Generalized potentials for a mean-field density functional theory of a three-phase contact line. Physical Review E, 2013, 88, 012117.	0.8	1

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163	First principles modeling of the temperature dependent ternary phase diagram for the Cuâ€“Pdâ€“S system. Computational Materials Science, 2014, 92, 377-386.	1.4	1
164	Cluster Variation Method Analysis of Correlations and Entropy in BCC Solid Solutions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1551-1558.	1.1	1
165	Nonlinear deformation and elasticity of BCC refractory metals and alloys. Physical Review Materials, 2022, 6, .	0.9	1
166	Equilibrium structure of decagonal AlNiCo. Materials Research Society Symposia Proceedings, 2003, 805, 254.	0.1	0
167	The arctic octahedron phenomenon in three-dimensional codimension-one rhombohedral tilings. Journal of Non-Crystalline Solids, 2004, 334-335, 96-99.	1.5	0
168	Publisher's Note: Lifshitz and other transitions in alkaline-earth 122 pnictides under pressure [Phys. Rev. B90, 144512 (2014)]. Physical Review B, 2014, 90, .	1.1	0
169	Random Tiling Model of Quasicrystalline Order. Springer Series in Solid-state Sciences, 1990, , 112-119.	0.3	0