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	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
2	Vibrational Entropy of Crystalline Solids from Covariance of Atomic Displacements. Entropy, 2022, 24, 618.	1.1	4
3	Nonlinear deformation and elasticity of BCC refractory metals and alloys. Physical Review Materials, 2022, 6, .	0.9	1
4	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
5	High-throughput design of high-performance lightweight high-entropy alloys. Nature Communications, 2021, 12, 4329.	5.8	112
6	An investigation of high entropy alloy conductivity using first-principles calculations. Applied Physics Letters, 2021, 119, .	1.5	7
7	Strength can be controlled by edge dislocations in refractory high-entropy alloys. Nature Communications, 2021, 12, 5474.	5.8	64
8	Superior Highâ€Temperature Strength in a Supersaturated Refractory Highâ€Entropy Alloy. Advanced Materials, 2021, 33, e2102401.	11.1	89
9	2D Ising Model for Adsorptionâ€Induced Enantiopurification of Racemates. ChemPhysChem, 2021, 22, 197-203.	1.0	6
10	Averaged cluster approach to including chemical short-range order in KKR-CPA. Physical Review B, 2020, 102, .	1.1	5
11	Proximity-induced superconducting gap in the quantum spin Hall edge state of monolayer WTe2. Nature Physics, 2020, 16, 526-530.	6.5	76
12	Spontaneous formation of thermodynamically stable Al-Cu-Fe icosahedral quasicrystal from realistic atomistic simulations. Physical Review Research, 2020, 2, .	1.3	5
13	First Principles Calculation of the Entropy of Liquid Aluminum. Entropy, 2019, 21, 131.	1.1	7
14	Mysterious SiB₃: Identifying the Relation between Î±- and Î²-SiB₃. ACS Omega, 2019, 4, 18741-18759.	1.6	9
15	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
16	Formation of graphene atop a Si adlayer on the C-face of SiC. Physical Review Materials, 2019, 3, .	0.9	3
17	Information Entropy of Liquid Metals. Journal of Physical Chemistry B, 2018, 122, 3550-3555.	1.2	22
18	Elastic stability and lattice distortion of refractory high entropy alloys. Materials Chemistry and Physics, 2018, 210, 309-314.	2.0	42

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19	Band structure theory of the bcc to hcp Burgers distortion. Physical Review B, 2018, 98, .	1.1	7
20	Modeling the structure and thermodynamics of high-entropy alloys. Journal of Materials Research, 2018, 33, 2881-2898.	1.2	78
21	Characterization of hexagonal boron nitride layers on nickel surfaces by low-energy electron microscopy. Surface Science, 2017, 659, 31-42.	0.8	20
22	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
23	Phase diagram of boron carbide with variable carbon composition. Physical Review B, 2017, 95, .	1.1	9
24	Segregation-induced ordered superstructures at general grain boundaries in a nickel-bismuth alloy. Science, 2017, 358, 97-101.	6.0	130
25	Thermodynamics of concentrated solid solution alloys. Current Opinion in Solid State and Materials Science, 2017, 21, 238-251.	5.6	142
26	Comment on â€œNew Ground-State Crystal Structure of Elemental Boronâ€• Physical Review Letters, 2017, 118, 159601.	2.9	4
27	Frequency Estimate for Multicomponent Crystalline Compounds. Journal of Statistical Physics, 2017, 167, 726-734.	0.5	8
28	First-principles prediction of high-entropy-alloy stability. Npj Computational Materials, 2017, 3, .	3.5	87
29	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
30	Prediction of Structure and Phase Transformations. , 2016, , 267-298.		19
31	Predicted phase diagram of boron-carbon-nitrogen. Physical Review B, 2016, 93, .	1.1	20
32	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
33	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
34	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
35	Pressureâ€Driven Enthalpic and Lifshitz Transition in 122â€Pnictides. Contributions To Plasma Physics, 2015, 55, 128-135.	0.5	2
36	Enumeration of octagonal tilings. Theoretical Computer Science, 2015, 598, 40-50.	0.5	4

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37	Phase transitions of boron carbide: Pair interaction model of high carbon limit. Solid State Sciences, 2015, 47, 21-26.	1.5	22
38	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
39	First-principles calculation of elastic moduli of early-late transition metal alloys. Physical Review B, 2014, 89, .	1.1	8
40	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
41	First-principles study of bismuth films at transition-metal grain boundaries. Physical Review B, 2014, 90, .	1.1	16
42	Lifshitz and other transitions in alkaline-earth 122 pnictides under pressure. Physical Review B, 2014, 90, .	1.1	8
43	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
44	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
45	A Free Energy Model of Boron Carbide. Journal of Statistical Physics, 2013, 150, 432-441.	0.5	18
46	Low-energy electron reflectivity of graphene on copper and other substrates. Physical Review B, 2013, 87, .	1.1	43
47	First-principles study of bismuth films on the Ni(111) surface. Physical Review B, 2013, 88, .	1.1	7
48	Prediction of A2 to B2 Phase Transition in the High-Entropy Alloy Mo-Nb-Ta-W. Jom, 2013, 65, 1772-1779.	0.9	87
49	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
50	Low-energy electron reflectivity from graphene: First-principles computations and approximate models. Ultramicroscopy, 2013, 130, 101-108.	0.8	24
51	Prediction of stable insulating intermetallic compounds. Physical Review B, 2013, 87, .	1.1	6
52	Low-energy electron reflectivity from graphene. Physical Review B, 2013, 87, .	1.1	83
53	Phase stability and elastic properties of Crâ€“V alloys. Journal of Physics Condensed Matter, 2013, 25, 075402.	0.7	31
54	Folding Kinetics of Riboswitch Transcriptional Terminators and Sequesterers. Entropy, 2013, 15, 3088-3099.	1.1	6

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55	Generalized potentials for a mean-field density functional theory of a three-phase contact line. Physical Review E, 2013, 88, 012117.	0.8	1
56	Mean-field density functional theory of a three-phase contact line. Physical Review E, 2012, 85, 011120.	0.8	1
57	Prediction of orientational phase transition in boron carbide. Solid State Sciences, 2012, 14, 1648-1652.	1.5	31
58	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
59	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
60	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
61	First-principles coexistence simulations of supercooled liquid silicon. Journal of Non-Crystalline Solids, 2011, 357, 442-445.	1.5	4
62	Arrhenius Lifetimes of RNA Structures from Free Energy Landscapes. Journal of Statistical Physics, 2011, 142, 1337-1352.	0.5	3
63	Elastic properties of Ca-based metallic glasses predicted by first-principles simulations. Physical Review B, 2011, 84, .	1.1	21
64	Kinetic Monte Carlo method applied to nucleic acid hairpin folding. Physical Review E, 2011, 84, 061912.	0.8	9
65	Cell-constrained melt-quench simulation ofd-AlCoNi: Ni-rich versus Co-rich structures. Philosophical Magazine, 2011, 91, 2557-2566.	0.7	8
66	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
67	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
68	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
69	Liquid-Liquid Transition in Supercooled Silicon Determined by First-Principles Simulation. Physical Review Letters, 2009, 102, 075701.	2.9	116
70	Probing hydrogen interactions with amorphous metals using first-principles calculations. Journal of Physics Condensed Matter, 2009, 21, 115402.	0.7	20
71	Vibrational Dynamics of Icosahedrally Symmetric Biomolecular Assemblies Compared with Predictions Based on Continuum Elasticity. Biophysical Journal, 2009, 96, 4438-4448.	0.2	33
72	Relative stability of Î± and Î² boron. Journal of Physics: Conference Series, 2009, 176, 012024.	0.3	14

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73	The first-principles design of ductile refractory alloys. Jom, 2008, 60, 61-65.	0.9	51
74	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
75	Ductility improvement of amorphous steels: Roles of shear modulus and electronic structure. Acta Materialia, 2008, 56, 88-94.	3.8	188
76	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:mtext> Physical Review B, 2008, 78, .	1.1	62
77	Ab initiosimulations of geometrical frustration in supercooled liquid Fe and Fe-based metallic glass. Physical Review B, 2008, 77, .	1.1	124
78	Discussion of phasons in quasicrystals and their dynamics. Philosophical Magazine, 2008, 88, 2339-2350.	0.7	28
79	First-principles simulation of supercooled liquid alloys. Journal of Physics Condensed Matter, 2008, 20, 114114.	0.7	6
80	Symmetry-broken crystal structure of elemental boron at low temperature. Physical Review B, 2008, 77, .	1.1	97
81	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
82	Local organization and atomic clustering in multicomponent amorphous steels. Physical Review B, 2008, 78, .	1.1	33
83	First-principles calculations of cohesive energies in theAlâ^'Cobinary alloy system. Physical Review B, 2007, 75, .	1.1	47
84	Soft modes near the buckling transition of icosahedral shells. Physical Review E, 2007, 76, 031911.	0.8	47
85	Lattice stability of aluminum-rare earth binary systems: A first-principles approach. Physical Review B, 2007, 75, .	1.1	59
86	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
87	Canonical cell model of cadmium-based icosahedral alloys. Philosophical Magazine, 2006, 86, 519-527.	0.7	23
88	Signature of nearly icosahedral structures in liquid and supercooled liquid copper. Physical Review B, 2006, 74, .	1.1	127
89	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
90	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

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91	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
92	Tile decoration model of the W-(Alâ€“Coâ€“Ni) approximant. Philosophical Magazine, 2006, 86, 557-565.	0.7	8
93	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
94	Random Tilings of High Symmetry: I. Mean-Field Theory. Journal of Statistical Physics, 2005, 120, 799-835.	0.5	12
95	Random Tilings of High Symmetry: II. Boundary Conditions and Numerical Studies. Journal of Statistical Physics, 2005, 120, 837-873.	0.5	5
96	Atomic surface occupancy of decagonal AlNiCo. Physical Review B, 2005, 71, .	1.1	2
97	Stability of Fe-Based Alloys With Structure Type C6Cr23. Journal of Materials Research, 2005, 20, 237-242.	1.2	31
98	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
99	First-Principles Prediction of a Decagonal Quasicrystal Containing Boron. Physical Review Letters, 2004, 93, 095507.	2.9	19
100	Tile Hamiltonians for decagonal phases. Journal of Non-Crystalline Solids, 2004, 334-335, 86-90.	1.5	6
101	The arctic octahedron phenomenon in three-dimensional codimension-one rhombohedral tilings. Journal of Non-Crystalline Solids, 2004, 334-335, 96-99.	1.5	0
102	Combined energyâ€“diffraction data refinement of decagonal AlNiCo. Journal of Non-Crystalline Solids, 2004, 334-335, 177-183.	1.5	8
103	Ab initiocalculations of cohesive energies ofFe-based glass-forming alloys. Physical Review B, 2004, 70, .	1.1	75
104	Mode-coupling approach to non-Newtonian Hele-Shaw flow. Physical Review E, 2003, 67, 026313.	0.8	16
105	The Mn effect on magnetic structure of FeMn-B amorphous metals. Materials Research Society Symposia Proceedings, 2003, 806, 232.	0.1	1
106	Order-disorder transition in the Cd-Ca cubic approximant. Materials Research Society Symposia Proceedings, 2003, 805, 50.	0.1	4
107	Equilibrium structure of decagonal AlNiCo. Materials Research Society Symposia Proceedings, 2003, 805, 254.	0.1	0
108	Quasicrystal approximants with novel compositions and structures. Materials Research Society Symposia Proceedings, 2003, 805, 112.	0.1	3

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109	Tile Hamiltonian for decagonal AlCoCu derived from first principles. Physical Review B, 2003, 67, .	1.1	11
110	Total-energy-based prediction of a quasicrystal structure. Physical Review B, 2002, 65, .	1.1	74
111	X-ray diffuse scattering in the icosahedral quasicrystal Al-Pd-Mn. Physical Review B, 2002, 66, .	1.1	5
112	Total-energy-based structure prediction for d(AlNiCo). Journal of Alloys and Compounds, 2002, 342, 221-227.	2.8	38
113	Arctic Octahedron in Three-Dimensional Rhombus Tilings and Related Integer Solid Partitions. Journal of Statistical Physics, 2002, 109, 945-965.	0.5	15
114	Shapes and textures of ferromagnetic liquid droplets. Brazilian Journal of Physics, 2001, 31, 360-365.	0.7	5
115	Thermodynamic Limit for Polydisperse Fluids. Journal of Statistical Physics, 2001, 104, 725-752.	0.5	1
116	Crystalline ground states of an entropically stabilized quasicrystal model. Physical Review B, 2001, 64, .	1.1	14
117	Transition-metal interactions in aluminum-rich intermetallics. Physical Review B, 2001, 64, .	1.1	25
118	Saffman-Taylor problem on a sphere. Physical Review E, 2001, 63, 036307.	0.8	20
119	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
120	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
121	First-principles interatomic potentials for transition-metal aluminides. III. Extension to ternary phase diagrams. Physical Review B, 2000, 62, 3648-3657.	1.1	39
122	Gravity-driven instability in a spherical Hele-Shaw cell. Physical Review E, 2000, 63, 016311.	0.8	9
123	Parallel flow in Hele-Shaw cells with ferrofluids. Physical Review E, 2000, 61, 2114-2117.	0.8	7
124	Rayleigh-Taylor instability with magnetic fluids:â€,â€,Experiment and theory. Physical Review E, 2000, 62, 7941-7948.	0.8	37
125	Ferromagnetic liquid thin films under applied field. Physical Review E, 2000, 61, 4171-4176.	0.8	3
126	Elongation of confined ferrofluid droplets under applied fields. Physical Review E, 1999, 60, 4272-4279.	0.8	25

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127	Cluster-based Monte Carlo simulation of ferrofluids. Physical Review E, 1999, 59, 2424-2428.	0.8	37
128	Thermodynamic Limit for Dipolar Media. Journal of Statistical Physics, 1998, 93, 109-141.	0.5	56
129	Viscous Fingering Patterns in Ferrofluids. Journal of Statistical Physics, 1998, 93, 411-426.	0.5	5
130	Radial fingering in a Hele-Shaw cell: a weakly nonlinear analysis. Physica D: Nonlinear Phenomena, 1998, 120, 315-328.	1.3	147
131	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
132	Ternary Model of an Al-Cu-Co Decagonal Quasicrystal. Physical Review Letters, 1998, 81, 598-601.	2.9	64
133	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
134	First-principles interatomic potentials for transition-metal aluminides: Theory and trends across the3dseries. Physical Review B, 1997, 56, 7905-7917.	1.1	83
135	Stability analysis of polarized domains. Physical Review E, 1997, 55, 3758-3761.	0.8	16
136	Repton model of gel electrophoresis in the long chain limit. Physica A: Statistical Mechanics and Its Applications, 1997, 244, 510-521.	1.2	6
137	Atomic correlations in AlCo decagonal approximant phases. Physica A: Statistical Mechanics and Its Applications, 1996, 232, 713-722.	1.2	17
138	Comment on â€œLong-Ranged Orientational Order in Dipolar Fluidsâ€• Physical Review Letters, 1995, 74, 2616-2616.	2.9	20
139	Spontaneous magnetic order in random dipolar solids. Physical Review B, 1995, 51, 8951-8957.	1.1	66
140	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
141	Field-induced forces in colloidal particle chains. Physical Review E, 1995, 51, 2099-2103.	0.8	97
142	Global phase diagrams for dipolar fluids. Physical Review E, 1994, 49, R3591-R3593.	0.8	87
143	Electronic-structure-based pair potentials for aluminum-rich cobalt compounds. Physical Review B, 1994, 49, 9322-9330.	1.1	47
144	Spontaneous magnetic order in strongly coupled ferrofluids. Journal of Magnetism and Magnetic Materials, 1993, 122, 119-122.	1.0	42

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145	Atomic model of decagonal quasicrystal approximants and phasons. Journal of Non-Crystalline Solids, 1993, 153-154, 282-287.	1.5	11
146	Total energies of decagonal models for quasicrystals. Journal of Non-Crystalline Solids, 1993, 153-154, 416-419.	1.5	15
147	Bethe ansatz solution of the square-triangle random tiling model. Physical Review Letters, 1993, 70, 2094-2097.	2.9	78
148	Phase diagram of a random tiling quasicrystal. Journal of Statistical Physics, 1992, 66, 1-69.	0.5	39
149	Virial Expansions for Low Dimensional Ferrofluids. Materials Research Society Symposia Proceedings, 1991, 248, 235.	0.1	1
150	Quasicrystal Structure and Properties. Annual Review of Physical Chemistry, 1991, 42, 685-729.	4.8	65
151	Elastic stability and diffuse scattering in icosahedral quasicrystals. Philosophical Magazine Letters, 1991, 64, 297-305.	0.5	68
152	Conformal invariance in incommensurate phases. Journal of Statistical Physics, 1990, 61, 51-78.	0.5	5
153	Finite-size scaling amplitudes in a random tiling model. Journal of Physics A, 1990, 23, L573-L580.	1.6	15
154	Finite-size-scaling amplitudes of the incommensurate phase. Physical Review Letters, 1990, 64, 1076-1079.	2.9	13
155	Random Tiling Model of Quasicrystalline Order. Springer Series in Solid-state Sciences, 1990, , 112-119.	0.3	0
156	Transfer-matrix analysis of a two-dimensional quasicrystal. Physical Review Letters, 1989, 63, 310-313.	2.9	127
157	Exact results on the antiferromagnetic three-state Potts model. Physical Review Letters, 1989, 63, 1193-1193.	2.9	25
158	Short- and Long-Range Icosahedral Order in Crystals, Glass, and Quasicrystals. Aperiodicity and Order, 1988, , 59-110.	0.3	10
159	Vibrations and melting of an icosahedral polytope. Journal of Physics C: Solid State Physics, 1987, 20, L449-L454.	1.5	3
160	Quasicrystal equilibrium state. Physical Review Letters, 1987, 58, 706-709.	2.9	163
161	Amorphous, crystalline or both?. Nature, 1987, 327, 19-19.	13.7	5
162	Icosahedral order in glass: Acoustic properties. Physical Review B, 1986, 34, 756-763.	1.1	14

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163	Icosahedral order in glass: Electronic properties. Physical Review B, 1985, 31, 6456-6468.	1.1	23
164	Symmetry, Landau theory and polytope models of glass. Nuclear Physics B, 1984, 240, 113-139.	0.9	109
165	Strange objects in the complex plane. Journal of Statistical Physics, 1983, 32, 443-454.	0.5	57
166	Renormalization group analysis of quasi-periodicity in analytic maps. Communications in Mathematical Physics, 1983, 92, 121-136.	1.0	36
167	Structure pulses in a simple nonequilibrium system. Physical Review B, 1982, 25, 1860-1865.	1.1	13
168	Renormalization group analysis of bifurcations in area-preserving maps. Physica D: Nonlinear Phenomena, 1982, 5, 287-292.	1.3	25
169	N-color Ashkin-Teller model. Physical Review B, 1981, 24, 6508-6515.	1.1	66