

Mark Owen Robbins

List of Publications by Year in descending order

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184
papers

13,366
citations

22548

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185
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185
docs citations

185
times ranked

8188
citing authors

#	ARTICLE	IF	CITATIONS
1	Models for the behavior of boron carbide in extreme dynamic environments. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3043-3061.	1.9	10
2	Fractal geometry of contacting patches in rough elastic contacts. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 160, 104797.	2.3	11
3	Effects of Coarse-Graining on Molecular Simulation of Craze Formation in Polymer Glass. <i>Macromolecules</i> , 2022, 55, 1267-1278.	2.2	5
4	Probing the nonequilibrium dynamics of stress, orientation, and entanglements in polymer melts with orthogonal interrupted shear simulations. <i>Journal of Rheology</i> , 2022, 66, 619-637.	1.3	6
5	Effects of Coarse-Graining on Molecular Simulations of Mechanical Properties of Glassy Polymers. <i>Macromolecules</i> , 2021, 54, 2277-2287.	2.2	5
6	Friction and Plasticity in Contacts Between Amorphous Solids. <i>Tribology Letters</i> , 2021, 69, 1.	1.2	5
7	Criticality in sheared, disordered solids. I. Rate effects in stress and diffusion. <i>Physical Review E</i> , 2021, 103, 042605.	0.8	9
8	Criticality in sheared, disordered solids. II. Correlations in avalanche dynamics. <i>Physical Review E</i> , 2021, 103, 042606.	0.8	6
9	Green's function method for dynamic contact calculations. <i>Physical Review E</i> , 2021, 103, 053305.	0.8	5
10	Sliding Friction of Amorphous Asperities on Crystalline Substrates: Scaling with Contact Radius and Substrate Thickness. <i>ACS Nano</i> , 2020, 14, 16997-17003.	7.3	9
11	Molecular models for creep in oriented polyethylene fibers. <i>Journal of Chemical Physics</i> , 2020, 153, 144904.	1.2	5
12	Effect of Flow-Induced Molecular Alignment on Welding and Strength of Polymer Interfaces. <i>Macromolecules</i> , 2020, 53, 8417-8427.	2.2	17
13	Effect of Roughness and Elasticity on Interactions between Charged Colloidal Spheres. <i>Langmuir</i> , 2019, 35, 15948-15959.	1.6	10
14	Stress Relaxation in Highly Oriented Melts of Entangled Polymers. <i>Macromolecules</i> , 2019, 52, 8540-8550.	2.2	37
15	Anisotropic avalanches and critical depinning of three-dimensional magnetic domain walls. <i>Physical Review E</i> , 2019, 100, 042121.	0.8	10
16	Determination of pressure-viscosity relation of 2,2,4-trimethylhexane by all-atom molecular dynamics simulations. <i>Fluid Phase Equilibria</i> , 2019, 495, 28-32.	1.4	18
17	Rheological Properties of Liquids Under Conditions of Elastohydrodynamic Lubrication. <i>Tribology Letters</i> , 2019, 67, 1.	1.2	37
18	Oâ€™Connor, Alvarez, and Robbins Reply. <i>Physical Review Letters</i> , 2019, 122, 059804.	2.9	1

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19	Micromechanical models for the stiffness and strength of UHMWPE microfibrils. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 116, 70-98.	2.3	17
20	Relating Chain Conformations to Extensional Stress in Entangled Polymer Melts. <i>Physical Review Letters</i> , 2018, 121, 047801.	2.9	55
21	Molecular origins of anisotropic shock propagation in crystalline and amorphous polyethylene. <i>Physical Review Materials</i> , 2018, 2, .	0.9	18
22	Entanglements in Glassy Polymer Craze: Cross-Links or Tubes?. <i>Macromolecules</i> , 2017, 50, 459-471.	2.2	35
23	Reply to Bair: Crossover to Arrhenius behavior at high viscosities in squalane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8807-E8808.	3.3	3
24	Scale- and load-dependent friction in commensurate sphere-on-flat contacts. <i>Physical Review B</i> , 2017, 96, .	1.1	18
25	Meeting the Contact-Mechanics Challenge. <i>Tribology Letters</i> , 2017, 65, 1.	1.2	232
26	Probing large viscosities in glass-formers with nonequilibrium simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7952-7957.	3.3	60
27	Shock-wave propagation and reflection in semicrystalline polyethylene: A molecular-level investigation. <i>Physical Review Materials</i> , 2017, 1, .	0.9	15
28	Contact area of rough spheres: Large scale simulations and simple scaling laws. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	79
29	Crazing of nanocomposites with polymer-tethered nanoparticles. <i>Journal of Chemical Physics</i> , 2016, 145, 094902.	1.2	27
30	Elasticity limits structural superlubricity in large contacts. <i>Physical Review B</i> , 2016, 93, .	1.1	57
31	Slip boundary conditions over curved surfaces. <i>Physical Review E</i> , 2016, 93, 013105.	0.8	27
32	Nanocapillary Adhesion between Parallel Plates. <i>Langmuir</i> , 2016, 32, 7788-7795.	1.6	23
33	Multi-scale simulation method for electroosmotic flows. <i>European Physical Journal: Special Topics</i> , 2016, 225, 1551-1582.	1.2	7
34	Chain Ends and the Ultimate Strength of Polyethylene Fibers. <i>ACS Macro Letters</i> , 2016, 5, 263-267.	2.3	37
35	Effective slip boundary conditions for sinusoidally corrugated surfaces. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	16
36	AIREBO-M: A reactive model for hydrocarbons at extreme pressures. <i>Journal of Chemical Physics</i> , 2015, 142, 024903.	1.2	159

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37	Opportunities in theoretical and computational polymeric materials and soft matter. <i>Soft Matter</i> , 2015, 11, 2326-2332.	1.2	25
38	Contact between rough surfaces and a criterion for macroscopic adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3298-3303.	3.3	251
39	Healing of polymer interfaces: Interfacial dynamics, entanglements, and strength. <i>Physical Review E</i> , 2014, 90, 012602.	0.8	50
40	Capillary adhesion at the nanometer scale. <i>Physical Review E</i> , 2014, 89, 062402.	0.8	31
41	Tensile Fracture of Welded Polymer Interfaces: Miscibility, Entanglements, and Crazing. <i>Macromolecules</i> , 2014, 47, 6982-6989.	2.2	59
42	Finite-size scaling in the interfacial stiffness of rough elastic contacts. <i>Physical Review E</i> , 2013, 87, 062809.	0.8	87
43	Molecular Dynamics Simulations of Polymer Welding: Strength from Interfacial Entanglements. <i>Physical Review Letters</i> , 2013, 110, 098301.	2.9	65
44	Structure and Strength at Immiscible Polymer Interfaces. <i>ACS Macro Letters</i> , 2013, 2, 882-886.	2.3	35
45	Effect of inertia on sheared disordered solids: Critical scaling of avalanches in two and three dimensions. <i>Physical Review E</i> , 2013, 88, 062206.	0.8	83
46	Publisher's Note: Molecular Dynamics Simulations of Polymer Welding: Strength from Interfacial Entanglements [<i>Phys. Rev. Lett.</i> 110, 098301 (2013)]. <i>Physical Review Letters</i> , 2013, 110, .	2.9	0
47	Nanoindentation of 35 Virus Capsids in a Molecular Model: Relating Mechanical Properties to Structure. <i>PLoS ONE</i> , 2013, 8, e63640.	1.1	62
48	Avalanches in Strained Amorphous Solids: Does Inertia Destroy Critical Behavior?. <i>Physical Review Letters</i> , 2012, 109, 105703.	2.9	118
49	Seamless elastic boundaries for atomistic calculations. <i>Physical Review B</i> , 2012, 86, .	1.1	46
50	Uncovering Molecular Mechanisms of Electrowetting and Saturation with Simulations. <i>Physical Review Letters</i> , 2012, 108, 216101.	2.9	47
51	Stiffness of Contacts between Rough Surfaces. <i>Physical Review Letters</i> , 2011, 106, 204301.	2.9	113
52	Dynamics of a Disturbed Sessile Drop Measured by Atomic Force Microscopy (AFM). <i>Langmuir</i> , 2011, 27, 11966-11972.	1.6	23
53	The autocorrelation function for island areas on self-affine surfaces. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 215004.	0.7	20
54	Defining Contact at the Atomic Scale. <i>Tribology Letters</i> , 2010, 39, 329-348.	1.2	84

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55	Molecular simulations of electroosmotic flows in rough nanochannels. <i>Journal of Computational Physics</i> , 2010, 229, 7834-7847.	1.9	31
56	Anisotropic plasticity and chain orientation in polymer glasses. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1473-1482.	2.4	32
57	Growth and morphology transitions in anisotropic disordered media. <i>Physical Review B</i> , 2010, 82, .	1.1	7
58	Contact and friction of nanoasperities: Effects of adsorbed monolayers. <i>Physical Review E</i> , 2010, 81, 016102.	0.8	62
59	Nanoindentation of virus capsids in a molecular model. <i>Journal of Chemical Physics</i> , 2010, 132, 015101.	1.2	41
60	Anisotropic Power Law Strain Correlations in Sheared Amorphous 2D Solids. <i>Physical Review Letters</i> , 2009, 102, 225502.	2.9	53
61	Strain hardening in bidisperse polymer glasses: Separating the roles of chain orientation and interchain entanglement. <i>Journal of Chemical Physics</i> , 2009, 131, 244901.	1.2	36
62	Hybrid Atomistic/Continuum Study of Contact and Friction Between Rough Solids. <i>Tribology Letters</i> , 2009, 36, 1-16.	1.2	55
63	Scaling of the strain hardening modulus of glassy polymers with the flow stress. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1406-1411.	2.4	39
64	Molecular Simulation of Electrokinetic Transport in Nanofluidics. , 2009, , .		0
65	Elastic contact between self-affine surfaces: comparison of numerical stress and contact correlation functions with analytic predictions. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 354013.	0.7	98
66	Strain hardening of polymer glasses: Entanglements, energetics, and plasticity. <i>Physical Review E</i> , 2008, 77, 031801.	0.8	100
67	Evolution of displacements and strains in sheared amorphous solids. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 244128.	0.7	40
68	Shear faults in a model brittle solid. <i>Chaos</i> , 2007, 17, 041105.	1.0	5
69	Strain Hardening in Polymer Glasses: Limitations of Network Models. <i>Physical Review Letters</i> , 2007, 99, 117801.	2.9	119
70	Elastic contact between rough surfaces: Effect of roughness at large and small wavelengths. <i>Tribology International</i> , 2007, 40, 1413-1422.	3.0	107
71	A continuum-atomistic simulation of heat transfer in micro- and nano-flows. <i>Journal of Computational Physics</i> , 2007, 227, 279-291.	1.9	89
72	General continuum boundary conditions for miscible binary fluids from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2006, 125, 214102.	1.2	19

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73	Resolving Singular Forces in Cavity Flow: Multiscale Modeling from Atomic to Millimeter Scales. <i>Physical Review Letters</i> , 2006, 96, 134501.	2.9	50
74	Strain hardening of polymer glasses: Effect of entanglement density, temperature, and rate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3487-3500.	2.4	154
75	Contact of single asperities with varying adhesion: Comparing continuum mechanics to atomistic simulations. <i>Physical Review E</i> , 2006, 74, 026111.	0.8	131
76	Multiscale modeling of two-dimensional contacts. <i>Physical Review E</i> , 2006, 74, 046710.	0.8	104
77	Finite element modeling of elasto-plastic contact between rough surfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 2005, 53, 2385-2409.	2.3	305
78	Macroscopic friction laws and shear yielding of glassy solids. <i>Computer Physics Communications</i> , 2005, 169, 177-182.	3.0	25
79	The breakdown of continuum models for mechanical contacts. <i>Nature</i> , 2005, 435, 929-932.	13.7	587
80	Effect of equilibration on primitive path analyses of entangled polymers. <i>Physical Review E</i> , 2005, 72, 061802.	0.8	43
81	Unified Description of Aging and Rate Effects in Yield of Glassy Solids. <i>Physical Review Letters</i> , 2005, 95, 225504.	2.9	100
82	Craze formation and the fracture energy of glassy polymers. <i>Chaos</i> , 2004, 14, S5-S5.	1.0	2
83	Stretching of proteins in the entropic limit. <i>Physical Review E</i> , 2004, 69, 011912.	0.8	20
84	Stretching of homopolymers and contact order. <i>Physical Review E</i> , 2004, 70, 011917.	0.8	13
85	Multiscale Modeling of Two Dimensional Rough Surface Contacts. <i>Materials Research Society Symposia Proceedings</i> , 2004, 841, R7.4.1.	0.1	3
86	Hybrid continuum-atomistic simulation of singular corner flow. <i>Physics of Fluids</i> , 2004, 16, 3579-3591.	1.6	54
87	Thermal effects in stretching of Go-like models of titin and secondary structures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 285-297.	1.5	73
88	Mapping molecular models to continuum theories for partially miscible fluids. <i>Physical Review E</i> , 2004, 69, 021505.	0.8	19
89	Effect of Inertia and Elasticity on Stick-Slip Motion. <i>Physical Review Letters</i> , 2004, 93, 036105.	2.9	32
90	Understanding and illustrating the atomic origins of friction. <i>American Journal of Physics</i> , 2004, 72, 884-891.	0.3	76

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91	Fcc-bcc transition for Yukawa interactions determined by applied strain deformation. Physical Review E, 2004, 69, 056103.	0.8	27
92	A continuum and molecular dynamics hybrid method for micro- and nano-fluid flow. Journal of Fluid Mechanics, 2004, 500, 55-64.	1.4	301
93	Atomistic Computer Simulations of Nanotribology. , 2004, , 717-738.		2
94	Atomistic Computer Simulations of Nanotribology. , 2004, , 717-738.		0
95	Shear yielding of amorphous glassy solids: Effect of temperature and strain rate. Physical Review E, 2003, 68, 011507.	0.8	158
96	Growth, microstructure, and failure of crazes in glassy polymers. Physical Review E, 2003, 68, 011801.	0.8	141
97	Molecular simulations of deformation and failure in bonds formed by glassy polymer adhesives. Journal of Adhesion Science and Technology, 2003, 17, 369-381.	1.4	21
98	Interactions and structure of poly(dimethylsiloxane) at silicon dioxide surfaces: Electronic structure and molecular dynamics studies. Journal of Chemical Physics, 2003, 118, 5132-5142.	1.2	60
99	Statistical Mechanics of Static and Low-Velocity Kinetic Friction. Advances in Chemical Physics, 2003, , 187-272.	0.3	127
100	Scale Effects and the Molecular Origins of Tribological Behavior. , 2003, , 29-44.		1
101	Bulk and interfacial shear thinning of immiscible polymers. Physical Review E, 2002, 65, 021808.	0.8	19
102	Cracks and Crazes: On Calculating the Macroscopic Fracture Energy of Glassy Polymers from Molecular Simulations. Physical Review Letters, 2002, 89, 148304.	2.9	146
103	Jamming under Tension in Polymer Crazes. Physical Review Letters, 2002, 89, 195501.	2.9	53
104	Folding and stretching in a Go-like model of titin. Proteins: Structure, Function and Bioinformatics, 2002, 49, 114-124.	1.5	64
105	Thermal folding and mechanical unfolding pathways of protein secondary structures. Proteins: Structure, Function and Bioinformatics, 2002, 49, 104-113.	1.5	62
106	Yield conditions for deformation of amorphous polymer glasses. Physical Review E, 2001, 64, 051801.	0.8	133
107	Simulations of Crazing in Polymer Glasses: Effect of Chain Length and Surface Tension. Macromolecules, 2001, 34, 4200-4209.	2.2	97
108	Simulations of the kinetic friction due to adsorbed surface layers. Tribology Letters, 2001, 10, 7-14.	1.2	112

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109	Molecular and Continuum Boundary Conditions for a Miscible Binary Fluid. <i>Physical Review Letters</i> , 2001, 87, 178302.	2.9	33
110	Simulations of the static friction due to adsorbed molecules. <i>Physical Review B</i> , 2001, 64, .	1.1	61
111	Simple Microscopic Theory of Amontons's Laws for Static Friction. <i>Physical Review Letters</i> , 2001, 86, 1295-1298.	2.9	274
112	Molecular dynamics study of slip at the interface between immiscible polymers. <i>Physical Review E</i> , 2001, 63, 021801.	0.8	32
113	Morphology transitions in three-dimensional domain growth with Gaussian random fields. <i>Physical Review B</i> , 2000, 62, 5771-5778.	1.1	21
114	Conditions for static friction between flat crystalline surfaces. <i>Physical Review B</i> , 2000, 61, 2335-2342.	1.1	123
115	Computer Simulations of Friction, Lubrication, and Wear. <i>Mechanics & Materials Science</i> , 2000, , .	0.1	21
116	Response of Thin Oligomer Films to Steady and Transient Shear. <i>ACS Symposium Series</i> , 1999, , 91-115.	0.5	1
117	Where do polymer adhesives fail?. <i>Europhysics Letters</i> , 1999, 48, 150-155.	0.7	38
118	Molecular dynamics study of the stress singularity at a corner. <i>Physical Review B</i> , 1999, 60, 12002-12006.	1.1	7
119	A molecular view of bond rupture. <i>Computational and Theoretical Polymer Science</i> , 1999, 9, 35-40.	1.1	12
120	Adsorbed Layers and the Origin of Static Friction. <i>Science</i> , 1999, 284, 1650-1652.	6.0	411
121	Energy Dissipation in Interfacial Friction. <i>MRS Bulletin</i> , 1998, 23, 23-26.	1.7	103
122	Adhesion and Friction of Thin Films. <i>MRS Bulletin</i> , 1997, 22, 22-26.	1.7	20
123	All stressed out. <i>Nature</i> , 1997, 389, 331-333.	13.7	7
124	Stick-Slip Motion, Transient Behavior, and Memory in Confined Films. , 1997, , 533-553.		5
125	Connecting Molecular-Scale and Macroscopic Tribology. <i>Langmuir</i> , 1996, 12, 4543-4547.	1.6	51
126	Energy Dissipation During Rupture of Adhesive Bonds. <i>Science</i> , 1996, 271, 482-484.	6.0	133

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127	Interactions between charged spherical macroions. <i>Journal of Chemical Physics</i> , 1996, 104, 5209-5219.	1.2	125
128	Friction on adsorbed monolayers. <i>Physical Review B</i> , 1996, 54, 8252-8260.	1.1	143
129	Structure and Shear Response in Nanometer-Thick Films. <i>Israel Journal of Chemistry</i> , 1995, 35, 93-106.	1.0	167
130	Critical dynamics of contact-line motion. <i>Physical Review E</i> , 1995, 52, R5776-R5779.	0.8	11
131	Effect of quenched disorder on moving interfaces in two dimensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 342-354.	1.2	18
132	Morphology and Dynamics of Domain-Wall Motion in Disordered Two-Dimensional Magnets. , 1994, , 75-84.		0
133	Melting of Yukawa systems: A test of phenomenological melting criteria. <i>Journal of Chemical Physics</i> , 1993, 98, 2319-2324.	1.2	125
134	Morphology and dynamics of interfaces in random two-dimensional media. <i>Physical Review Letters</i> , 1993, 71, 2074-2077.	2.9	42
135	Microscopic studies of static and dynamic contact angles. <i>Journal of Adhesion Science and Technology</i> , 1993, 7, 535-554.	1.4	103
136	Simulations of shear-induced melting and ordering. <i>Physical Review E</i> , 1993, 48, 3778-3792.	0.8	88
137	Simulations of Nanometer-Thick Lubricating Films. <i>MRS Bulletin</i> , 1993, 18, 45-49.	1.7	24
138	Simulations of Lubricant Behavior at the Interface with Bearing Solids. <i>Tribology Series</i> , 1993, 25, 347-360.	0.1	8
139	Growth in Systems with Quenched Disorder. <i>NATO ASI Series Series B: Physics</i> , 1993, , 65-75.	0.2	5
140	Structure and Dynamics of Confined Fluids. , 1993, , 127-138.		4
141	Fluid wetting properties and the invasion of square networks. <i>Physical Review B</i> , 1992, 45, 7762-7767.	1.1	31
142	Effect of disorder and lattice type on domain-wall motion in two dimensions. <i>Physical Review B</i> , 1992, 46, 5258-5265.	1.1	37
143	Percolative, self-affine, and faceted domain growth in random three-dimensional magnets. <i>Physical Review B</i> , 1992, 46, 14519-14527.	1.1	81
144	Phase transitions and universal dynamics in confined films. <i>Physical Review Letters</i> , 1992, 68, 3448-3451.	2.9	385

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145	Thin liquid films on rough or heterogeneous solids. <i>Physical Review A</i> , 1991, 43, 4344-4354.	1.0	154
146	Transition from compact to self-similar growth in disordered systems: Fluid invasion and magnetic-domain growth. <i>Physical Review A</i> , 1991, 44, 2538-2542.	1.0	66
147	Critical Velocity of Stick-Slip Motion. <i>Science</i> , 1991, 253, 916-916.	6.0	117
148	Shear melting of colloids: A nonequilibrium phase diagram. <i>Physical Review Letters</i> , 1991, 66, 3004-3007.	2.9	83
149	Critical phenomena in fluid invasion of porous media. <i>Physical Review Letters</i> , 1991, 66, 1058-1061.	2.9	163
150	Inductive anomaly and noise spectrum of a sliding-charge-density-wave conductor. <i>Physical Review B</i> , 1991, 43, 1835-1838.	1.1	6
151	Scaling relations for interface motion through disordered media: Application to two-dimensional fluid invasion. <i>Physical Review B</i> , 1991, 44, 12294-12306.	1.1	89
152	To slip or not to slip?. <i>Physics World</i> , 1990, 3, 35-38.	0.0	20
153	Harmonic generation as a probe of dissipation at a moving contact line. <i>Physical Review Letters</i> , 1990, 65, 1885-1888.	2.9	49
154	Influence of contact angle on quasistatic fluid invasion of porous media. <i>Physical Review B</i> , 1990, 41, 11508-11521.	1.1	177
155	Effect of finite system size on thermal fluctuations: Implications for melting. <i>Physical Review B</i> , 1990, 42, 5579-5585.	1.1	27
156	Motion of a contact line on a heterogeneous surface. <i>Journal of Chemical Physics</i> , 1990, 92, 3206-3212.	1.2	99
157	Shear flow near solids: Epitaxial order and flow boundary conditions. <i>Physical Review A</i> , 1990, 41, 6830-6837.	1.0	688
158	Elastic energies and order in epitaxial Si-Ge alloys. <i>Physical Review B</i> , 1989, 40, 12554-12557.	1.1	22
159	Broadband-noise spectrum in sliding-charge-density-wave conductors. <i>Physical Review B</i> , 1989, 40, 5826-5829.	1.1	25
160	Simulations of contact-line motion: Slip and the dynamic contact angle. <i>Physical Review Letters</i> , 1989, 63, 766-769.	2.9	414
161	Density Functional Theory of Interactions Between Charged Macroions in Solution. <i>Materials Research Society Symposia Proceedings</i> , 1989, 177, 237.	0.1	0
162	Molecular Dynamics Simulations of Contact Line Motion. <i>Materials Research Society Symposia Proceedings</i> , 1989, 177, 411.	0.1	1

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163	Phase diagram and dynamics of Yukawa systems. <i>Journal of Chemical Physics</i> , 1988, 88, 3286-3312.	1.2	635
164	Complete Wetting on Rough Surfaces: Statics. <i>Europhysics Letters</i> , 1988, 7, 731-736.	0.7	111
165	Electronic theory of ordering in $(\text{GaAs})_{1-x}\text{Ge}_x$ alloys. <i>Physical Review B</i> , 1988, 38, 10524-10532.	1.1	12
166	Interface dynamics in porous media: A random-field description. <i>Physical Review Letters</i> , 1988, 60, 1386-1389.	2.9	51
167	Dynamical Transition in Quasistatic Fluid Invasion in Porous Media. <i>Physical Review Letters</i> , 1988, 60, 2042-2045.	2.9	221
168	Linear ac response of a depinned charge-density wave. <i>Physical Review B</i> , 1988, 38, 3773-3776.	1.1	1
169	Phase Diagram of Yukawa Systems: Model for Charge-Stabilized Colloids. <i>Physical Review Letters</i> , 1986, 57, 2694-2697.	2.9	189
170	Charge-density-wave conduction: Dynamics and finite-size effects. <i>Physical Review B</i> , 1986, 34, 8496-8506.	1.1	15
171	Electronic-structure calculations of binary-alloy phase diagrams. <i>Physical Review B</i> , 1986, 33, 4782-4792.	1.1	25
172	Interfacial Stability of Immiscible Displacement in a Porous Medium. <i>Physical Review Letters</i> , 1986, 57, 1718-1721.	2.9	212
173	Tilt and splay of surfactants on surfaces. <i>Physical Review A</i> , 1986, 33, 2186-2189.	1.0	59
174	A microscopic theory of binary alloy phase equilibrium. <i>Solid State Communications</i> , 1985, 55, 253-256.	0.9	15
175	Charge-Density-Wave Depinning: A Dynamical Critical Phenomenon?. <i>Physical Review Letters</i> , 1985, 55, 2822-2825.	2.9	24
176	Localization properties of random and partially ordered one-dimensional systems. <i>Physical Review B</i> , 1985, 32, 4576-4583.	1.1	14
177	Origin of Broadband Noise in Charge-Density-Wave Conductors. <i>Physical Review Letters</i> , 1985, 54, 2453-2456.	2.9	72
178	ac response of pinned-charge-density-wave conductors. <i>Physical Review B</i> , 1985, 32, 6939-6941.	1.1	15
179	Electronic theory of ordering and segregation in transition-metal alloys. <i>Physical Review B</i> , 1984, 29, 1333-1348.	1.1	84
180	Renormalization group treatment for the electronic spectrum of partially ordered one-dimensional alloys. <i>Solid State Communications</i> , 1983, 45, 955-959.	0.9	32

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181	Renormalization-group methods for the spectra of disordered chains. Physical Review B, 1983, 27, 7703-7715.	1.1	39
182	Electronic theory of ordering and segregation in binary alloys: Application to simple metals. Physical Review B, 1982, 25, 2343-2357.	1.1	39
183	Electronic Energy and Short-Range Order in Binary Alloys. Materials Research Society Symposia Proceedings, 1982, 19, 53.	0.1	0
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