

Mehran Kardar

List of Publications by Year in descending order

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284
papers

21,690
citations

11651

70
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10445

139
g-index

290
all docs

290
docs citations

290
times ranked

9777
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Scaling of Growing Interfaces. Physical Review Letters, 1986, 56, 889-892.	7.8	4,448
2	Burgers equation with correlated noise: Renormalization-group analysis and applications to directed polymers and interface growth. Physical Review A, 1989, 39, 3053-3075.	2.5	616
3	The "friction" of vacuum, and other fluctuation-induced forces. Reviews of Modern Physics, 1999, 71, 1233-1245.	45.6	610
4	Scaling of Directed Polymers in Random Media. Physical Review Letters, 1987, 58, 2087-2090.	7.8	491
5	Long range interactions in nanoscale science. Reviews of Modern Physics, 2010, 82, 1887-1944.	45.6	359
6	Pressure is not a state function for generic active fluids. Nature Physics, 2015, 11, 673-678.	16.7	356
7	Replica Bethe ansatz studies of two-dimensional interfaces with quenched random impurities. Nuclear Physics B, 1987, 290, 582-602.	2.5	316
8	Casimir Forces between Arbitrary Compact Objects. Physical Review Letters, 2007, 99, 170403.	7.8	307
9	Avalanches, hydrodynamics, and discharge events in models of sandpiles. Physical Review A, 1992, 45, 7002-7023.	2.5	290
10	Intricate Knots in Proteins: Function and Evolution. PLoS Computational Biology, 2006, 2, e122.	3.2	286
11	Statistical Mechanics of Tethered Surfaces. Physical Review Letters, 1986, 57, 791-794.	7.8	285
12	Dissipative transport in open systems: An investigation of self-organized criticality. Physical Review Letters, 1989, 62, 1813-1816.	7.8	273
13	Scattering theory approach to electrodynamic Casimir forces. Physical Review D, 2009, 80, .	4.7	269
14	Pressure and Phase Equilibria in Interacting Active Brownian Spheres. Physical Review Letters, 2015, 114, 198301.	7.8	268
15	Anomalous dynamics of translocation. Physical Review E, 2001, 65, 011802.	2.1	267
16	Anomalous dynamics of forced translocation. Physical Review E, 2004, 69, 021806.	2.1	258
17	Tethered surfaces: Statics and dynamics. Physical Review A, 1987, 35, 3056-3071.	2.5	229
18	Casimir Interaction between a Plate and a Cylinder. Physical Review Letters, 2006, 96, 080403.	7.8	225

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19	Nonequilibrium dynamics of interfaces and lines. <i>Physics Reports</i> , 1998, 301, 85-112.	25.6	181
20	Fractional Laplacian in bounded domains. <i>Physical Review E</i> , 2007, 76, 021116.	2.1	179
21	The Effects of Somatic Hypermutation on Neutralization and Binding in the PGT121 Family of Broadly Neutralizing HIV Antibodies. <i>PLoS Pathogens</i> , 2013, 9, e1003754.	4.7	175
22	Manipulating the Selection Forces during Affinity Maturation to Generate Cross-Reactive HIV Antibodies. <i>Cell</i> , 2015, 160, 785-797.	28.9	173
23	Probing the Strong Boundary Shape Dependence of the Casimir Force. <i>Physical Review Letters</i> , 2001, 87, 260402.	7.8	169
24	Normal and lateral Casimir forces between deformed plates. <i>Physical Review A</i> , 2003, 67, .	2.5	167
25	Landau Theory of the Crumpling Transition. <i>Physical Review Letters</i> , 1988, 60, 2638-2640.	7.8	166
26	Roughening by impurities at finite temperatures. <i>Physical Review Letters</i> , 1985, 55, 2923-2923.	7.8	162
27	Path-integral approach to the dynamic Casimir effect with fluctuating boundaries. <i>Physical Review A</i> , 1998, 58, 1713-1722.	2.5	161
28	Crumpled and collapsed conformation in graphite oxide membranes. <i>Nature</i> , 1992, 355, 426-428.	27.8	160
29	Mechanical Response of Vacuum. <i>Physical Review Letters</i> , 1997, 78, 3421-3425.	7.8	160
30	Trace formulas for nonequilibrium Casimir interactions, heat radiation, and heat transfer for arbitrary objects. <i>Physical Review B</i> , 2012, 86, .	3.2	160
31	Fluctuation-induced forces between manifolds immersed in correlated fluids. <i>Physical Review A</i> , 1992, 46, 6490-6500.	2.5	159
32	Critical dynamics of contact line depinning. <i>Physical Review E</i> , 1994, 49, R2532-R2535.	2.1	156
33	Fluctuation-induced forces between rough surfaces. <i>Physical Review Letters</i> , 1991, 67, 3275-3278.	7.8	154
34	Knots in Globule and Coil Phases of a Model Polyethylene. <i>Journal of the American Chemical Society</i> , 2005, 127, 15102-15106.	18.7	154
35	Instabilities of charged polyampholytes. <i>Physical Review E</i> , 1995, 51, 1299-1312.	2.1	152
36	Nonequilibrium Electromagnetic Fluctuations: Heat Transfer and Interactions. <i>Physical Review Letters</i> , 2011, 106, 210404.	7.8	151

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37	A Stevedore's Protein Knot. PLoS Computational Biology, 2010, 6, e1000731.	3.2	149
38	Attractive Casimir Forces in a Closed Geometry. Physical Review Letters, 2005, 95, 250402.	7.8	142
39	Excess Charge in Polyampholytes. Europhysics Letters, 1994, 27, 643-648.	2.0	141
40	Active Particles with Soft and Curved Walls: Equation of State, Ratchets, and Instabilities. Physical Review Letters, 2016, 117, 098001.	7.8	132
41	Casimir forces between compact objects: The scalar case. Physical Review D, 2008, 77, .	4.7	130
42	How the thymus designs antigen-specific and self-tolerant T cell receptor sequences. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16671-16676.	7.1	119
43	Casimir forces beyond the proximity approximation. Europhysics Letters, 2012, 97, 50001.	2.0	118
44	Commensurate-Incommensurate Phase Diagrams for Overlayers from a Helical Potts Model. Physical Review Letters, 1982, 48, 1552-1555.	7.8	114
45	Driven Depinning in Anisotropic Media. Physical Review Letters, 1995, 74, 920-923.	7.8	112
46	Collapse of Stiff Polyelectrolytes due to Counterion Fluctuations. Physical Review Letters, 1999, 82, 4456-4459.	7.8	112
47	Purely stochastic binary decisions in cell signaling models without underlying deterministic bistabilities. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18958-18963.	7.1	109
48	Fluctuation-induced interactions between rods on a membrane. Physical Review E, 1996, 54, 6725-6734.	2.1	106
49	Macroscopic equations for pattern formation in mixtures of microtubules and molecular motors. Physical Review E, 2001, 64, 056113.	2.1	104
50	Interference of Directed Paths in Disordered Systems. Physical Review Letters, 1989, 62, 941-944.	7.8	101
51	Casimir forces between cylinders and plates. Physical Review A, 2008, 78, .	2.5	101
52	Depinning by Quenched Randomness. Physical Review Letters, 1985, 55, 2235-2238.	7.8	99
53	μexpansions for crumpled manifolds. Physical Review Letters, 1987, 58, 1289-1292.	7.8	98
54	Diffusion in correlated random potentials, with applications to DNA. Physical Review E, 2004, 69, 061903.	2.1	98

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55	Conformations of polyampholytes. <i>Physical Review Letters</i> , 1992, 69, 61-64.	7.8	96
56	Commensurate-Incommensurate Transitions with Quenched Random Impurities. <i>Physical Review Letters</i> , 1985, 55, 1157-1160.	7.8	95
57	Equilibrium Shapes of Flat Knots. <i>Physical Review Letters</i> , 2002, 88, 188101.	7.8	92
58	Quantum interference effects for strongly localized electrons. <i>Physical Review B</i> , 1992, 46, 9984-10006.	3.2	91
59	Protein knot server: detection of knots in protein structures. <i>Nucleic Acids Research</i> , 2007, 35, W425-W428.	14.5	91
60	Material dependence of Casimir forces: Gradient expansion beyond proximity. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	91
61	Exact integer algorithm for the two-dimensional $\hat{A}\pm$ JIsing spin glass. <i>Physical Review E</i> , 1993, 48, R3221-R3224.	2.1	89
62	Casimir forces in a piston geometry at zero and finite temperatures. <i>Physical Review D</i> , 2007, 76, .	4.7	84
63	Josephson-junction ladders and quantum fluctuations. <i>Physical Review B</i> , 1986, 33, 3125-3128.	3.2	79
64	Dynamic roughening of directed lines. <i>Physical Review Letters</i> , 1992, 69, 929-932.	7.8	78
65	Spin models inferred from patient-derived viral sequence data faithfully describe HIV fitness landscapes. <i>Physical Review E</i> , 2013, 88, 062705.	2.1	78
66	Fluctuation-induced interactions between rods on membranes and interfaces. <i>Europhysics Letters</i> , 1996, 33, 241-246.	2.0	77
67	Statistical mechanics of polyampholytes. <i>Physical Review E</i> , 1994, 49, 1383-1392.	2.1	76
68	Nonequilibrium Fluctuational Quantum Electrodynamics: Heat Radiation, Heat Transfer, and Force. <i>Annual Review of Condensed Matter Physics</i> , 2017, 8, 119-143.	14.5	75
69	Crossover to equivalent-neighbor multicritical behavior in arbitrary dimensions. <i>Physical Review B</i> , 1983, 28, 244-246.	3.2	71
70	Pulling knotted polymers. <i>Europhysics Letters</i> , 2002, 60, 53-59.	2.0	71
71	Constraints on Stable Equilibria with Fluctuation-Induced (Casimir) Forces. <i>Physical Review Letters</i> , 2010, 105, 070404.	7.8	71
72	Growth-induced roughening of crystalline facets. <i>Physical Review Letters</i> , 1991, 66, 441-444.	7.8	70

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73	First Order Phase Transition and Evidence for Frustrations in Polyampholytic Gels. Physical Review Letters, 1999, 82, 4863-4865.	7.8	69
74	Folding and Unbinding Transitions in Tethered Membranes. Science, 1991, 252, 419-422.	12.6	65
75	Statistical mechanics of self-avoiding tethered manifolds. Physical Review A, 1988, 38, 966-982.	2.5	64
76	Polymers with Random Self-Interactions. Europhysics Letters, 1991, 14, 421-426.	2.0	64
77	Adsorption and Wetting Transitions on Rough Substrates. Europhysics Letters, 1990, 12, 161-166.	2.0	63
78	Quorum sensing allows T cells to discriminate between self and nonself. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11833-11838.	7.1	63
79	Heat radiation from long cylindrical objects. Physical Review E, 2012, 85, 046603.	2.1	61
80	Evolution of Surface Patterns on Swelling Gels. Physical Review Letters, 1988, 61, 106-109.	7.8	60
81	Disorder-induced unbinding of a flux line from an extended defect. Physical Review B, 1994, 49, 13030-13048.	3.2	60
82	Anisotropic Scaling in Depinning of a Flux Line. Physical Review Letters, 1994, 73, 1703-1706.	7.8	60
83	Anisotropic scaling in threshold critical dynamics of driven directed lines. Physical Review B, 1996, 53, 3520-3542.	3.2	60
84	Dynamics of tumor growth and combination of anti-angiogenic and cytotoxic therapies. Physics in Medicine and Biology, 2007, 52, 3665-3677.	3.0	60
85	Phase Ordering and Roughening on Growing Films. Physical Review Letters, 2000, 85, 614-617.	7.8	57
86	The 2D $\pm J$ Ising spin glass: exact partition functions in polynomial time. Nuclear Physics B, 1994, 432, 641-667.	2.5	56
87	Magnetic-field effects on strongly localized electrons. Physical Review Letters, 1990, 64, 1816-1819.	7.8	55
88	Reentrant melting of krypton adsorbed on graphite and the helical Potts-lattice-gas model. Physical Review B, 1985, 31, 4527-4537.	3.2	54
89	Non-equilibrium Casimir forces: Spheres and sphere-plate. Europhysics Letters, 2011, 95, 21002.	2.0	54
90	Anomalous diffusion with absorbing boundary. Physical Review E, 2007, 76, 061121.	2.1	53

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91	Optimal immunization cocktails can promote induction of broadly neutralizing Abs against highly mutable pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7039-E7048.	7.1	53
92	Dynamic relaxation of drifting polymers: A phenomenological approach. Physical Review E, 1993, 48, 1228-1245.	2.1	52
93	Quantum Cherenkov radiation and noncontact friction. Physical Review A, 2013, 88, .	2.5	52
94	Domain walls subject to quenched impurities (invited). Journal of Applied Physics, 1987, 61, 3601-3604.	2.5	51
95	Thinning of superfluid films below the critical point. Physical Review E, 2007, 76, 030601.	2.1	51
96	Randomly charged polymers: An exact enumeration study. Physical Review E, 1995, 52, 835-846.	2.1	50
97	Defects in nematic membranes can buckle into pseudospheres. Physical Review E, 2008, 77, 041705.	2.1	49
98	Scattering approach to the dynamical Casimir effect. Physical Review D, 2013, 87, .	4.7	47
99	Dynamic scaling phenomena in growth processes. Physica B: Condensed Matter, 1996, 221, 60-64.	2.7	46
100	Effective Membrane Model of the Immunological Synapse. Physical Review Letters, 2003, 91, 208101.	7.8	46
101	Casimir Forces, Surface Fluctuations, and Thinning of Superfluid Film. Physical Review Letters, 2004, 93, 155302.	7.8	46
102	Orientation dependence of Casimir forces. Physical Review A, 2009, 79, .	2.5	44
103	Thymic Selection of T-Cell Receptors as an Extreme Value Problem. Physical Review Letters, 2009, 103, 068103.	7.8	43
104	Analytical results on Casimir forces for conductors with edges and tips. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6867-6871.	7.1	43
105	Spontaneous Emission by Rotating Objects: A Scattering Approach. Physical Review Letters, 2012, 108, 230403.	7.8	43
106	Spin-orbit scattering and magnetoconductance of strongly localized electrons. Physical Review Letters, 1991, 66, 3187-3190.	7.8	42
107	Fluctuation-Induced Forces in Nonequilibrium Diffusive Dynamics. Physical Review Letters, 2015, 114, 230602.	7.8	42
108	Winding angle distributions for random walks and flux lines. Physical Review E, 1996, 53, 5861-5871.	2.1	40

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109	Knots in charged polymers. <i>Physical Review E</i> , 2002, 66, 031802.	2.1	40
110	Probability distributions for polymer translocation. <i>Physical Review E</i> , 2008, 78, 021129.	2.1	40
111	Unusual universality of branching interfaces in random media. <i>Physical Review E</i> , 1995, 52, R1269-R1272.	2.1	39
112	Energy Barriers to Motion of Flux Lines in Random Media. <i>Physical Review Letters</i> , 1995, 75, 1170-1173.	7.8	39
113	Nonmonotonic effects of parallel sidewalls on Casimir forces between cylinders. <i>Physical Review A</i> , 2008, 77, .	2.5	38
114	Roughness and ordering of growing films. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 281, 295-310.	2.6	37
115	Elastic antiferromagnets on a triangular lattice. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 6825-6831.	1.5	36
116	Wetting of fractally rough surfaces. <i>Physical Review Letters</i> , 1990, 65, 662-662.	7.8	36
117	First-passage distributions in a collective model of anomalous diffusion with tunable exponent. <i>Physical Review E</i> , 2010, 81, 011107.	2.1	35
118	Formation and Stability of Synaptic Receptor Domains. <i>Physical Review Letters</i> , 2011, 106, 238104.	7.8	35
119	A Population Dynamics Model for Clonal Diversity in a Germinal Center. <i>Frontiers in Microbiology</i> , 2017, 8, 1693.	3.5	35
120	Structure and dynamics of vibrated granular chains: Comparison to equilibrium polymers. <i>Physical Review E</i> , 2009, 79, 061304.	2.1	34
121	Collapse of Randomly Self-Interacting Polymers. <i>Europhysics Letters</i> , 1994, 28, 169-174.	2.0	33
122	Observation of striped phases in adsorbed helium monolayers. <i>Physical Review B</i> , 1986, 34, 318-324.	3.2	32
123	Scaling laws describe memories of host-pathogen riposte in the HIV population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1965-1970.	7.1	32
124	Wetting phenomena on rough substrates. <i>Physical Review B</i> , 1990, 42, 6546-6554.	3.2	31
125	Surface ordering and finite-size effects in liquid-crystal films. <i>Physical Review B</i> , 1991, 44, 8274-8283.	3.2	31
126	Casimir force at a knife-edge. <i>Physical Review D</i> , 2010, 81, .	4.7	31

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127	Identification of drug resistance mutations in HIV from constraints on natural evolution. <i>Physical Review E</i> , 2016, 93, 022412.	2.1	31
128	Positive feedback regulation results in spatial clustering and fast spreading of active signaling molecules on a cell membrane. <i>Journal of Chemical Physics</i> , 2009, 130, 245102.	3.0	30
129	Harmonics of orientational order in liquid crystals. <i>Physical Review Letters</i> , 1988, 60, 861-861.	7.8	29
130	Renormalization-group analysis of the crumpling transition in laged. <i>Physical Review A</i> , 1989, 39, 6086-6089.	2.5	29
131	Directed waves in random media. <i>Physical Review A</i> , 1992, 45, 8859-8866.	2.5	29
132	Freezing Transition of Compact Polyampholytes. <i>Physical Review Letters</i> , 1996, 77, 3565-3568.	7.8	29
133	Tightness of slip-linked polymer chains. <i>Physical Review E</i> , 2002, 65, 061103.	2.1	29
134	Expansions for Crumpled Manifolds. <i>Physical Review Letters</i> , 1987, 58, 2280-2280.	7.8	27
135	Directed paths on percolation clusters. <i>Journal of Statistical Physics</i> , 1992, 67, 1-11.	1.2	27
136	Nonuniversality and analytical continuation in moments of directed polymers on hierarchical lattices. <i>Journal of Statistical Physics</i> , 1993, 71, 967-980.	1.2	27
137	Scaling of energy barriers for flux lines and other random systems. <i>Physical Review E</i> , 1995, 52, 4841-4852.	2.1	27
138	Passive sliders on growing surfaces and advection in Burger's flows. <i>Physical Review B</i> , 2002, 66, .	3.2	26
139	Conformal field theory of critical Casimir interactions in 2D. <i>Europhysics Letters</i> , 2013, 104, 21001.	2.0	25
140	Dimensional reduction with correlated random fields. A superspace renormalization-group calculation. <i>Physical Review B</i> , 1983, 27, 5875-5878.	3.2	24
141	Krypton on graphite and the striped helical Potts model. <i>Physical Review B</i> , 1985, 31, 1664-1667.	3.2	24
142	Transfer Matrix Simulations of 2 d -Interfaces in Three-Dimensional Random Media. <i>Europhysics Letters</i> , 1989, 8, 233-238.	2.0	24
143	Model for growth of binary alloys with fast surface equilibration. <i>Physical Review E</i> , 1997, 55, 5026-5032.	2.1	24
144	Dilution and resonance-enhanced repulsion in nonequilibrium fluctuation forces. <i>Physical Review A</i> , 2011, 84, .	2.5	24

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145	Entropic force of polymers on a cone tip. Europhysics Letters, 2011, 96, 66002.	2.0	24
146	Phase Transitions in New Solvable Hamiltonians by a Hamiltonian Minimization. Physical Review Letters, 1983, 51, 523-526.	7.8	23
147	Tethering, Crumpling, and Melting Transitions in Hexatic Membranes. Europhysics Letters, 1990, 13, 441-446.	2.0	23
148	Sensitivity of ballistic deposition to pseudorandom number generators. Physical Review E, 1998, 57, 5044-5052.	2.1	23
149	Critical hysteresis for n-component magnets. Physical Review E, 1999, 59, 1355-1367.	2.1	23
150	Symmetry considerations and development of pinwheels in visual maps. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 16036-16040.	7.1	23
151	Polymer-mediated entropic forces between scale-free objects. Physical Review E, 2012, 86, 061801.	2.1	23
152	Linear response relations in fluctuational electrodynamics. Physical Review B, 2013, 88, .	3.2	23
153	Random-field critical behavior and the Ginzburg criterion. Physical Review B, 1985, 31, 2913-2919.	3.2	22
154	Statistical Mechanics of Charged Manifolds. Europhysics Letters, 1989, 9, 53-58.	2.0	22
155	Self-avoiding crumpled manifolds: Perturbative analysis and renormalizability. Physical Review Letters, 1990, 64, 2022-2025.	7.8	22
156	Delocalization of Flux Lines from Extended Defects by Bulk Randomness. Europhysics Letters, 1993, 23, 503-509.	2.0	22
157	Disorder-Induced Long-Ranged Correlations in Scalar Active Matter. Physical Review Letters, 2021, 126, 048003.	7.8	22
158	Diffraction Patterns from Thin Hexatic Films. Physical Review Letters, 1988, 61, 2855-2858.	7.8	21
159	Casimir-Polder interaction for gently curved surfaces. Physical Review D, 2014, 90, .	4.7	21
160	Symmetry-Breaking Motility. Physical Review Letters, 2005, 95, 138101.	7.8	20
161	Interplay of roughness/modulation and curvature for surface interactions at proximity. Europhysics Letters, 2013, 104, 41001.	2.0	20
162	Roughening of anisotropically reconstructed surfaces and the Hubbard model. Physical Review B, 1992, 46, 16031-16044.	3.2	19

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163	Nonequilibrium quantum fluctuations of a dispersive medium: Spontaneous emission, photon statistics, entropy generation, and stochastic motion. <i>Physical Review A</i> , 2014, 90, .	2.5	19
164	Self-assembly and plasticity of synaptic domains through a reaction-diffusion mechanism. <i>Physical Review E</i> , 2015, 92, 032705.	2.1	19
165	Kosterlitz-Thouless transition with symmetry-breaking fields and quenched random interactions. <i>Physical Review B</i> , 1991, 43, 8331-8336.	3.2	18
166	Probability distributions of line lattices in random media from the 1D Bose gas. <i>Nuclear Physics B</i> , 2001, 604, 479-510.	2.5	18
167	Tight and loose shapes in flat entangled dense polymers. <i>European Physical Journal E</i> , 2003, 12, 347-354.	1.6	18
168	One-dimensional gas of hard needles. <i>Physical Review E</i> , 2009, 79, 041109.	2.1	18
169	Transient Casimir Forces from Quenches in Thermal and Active Matter. <i>Physical Review Letters</i> , 2017, 118, 015702.	7.8	18
170	The low spike density of HIV may have evolved because of the effects of T helper cell depletion on affinity maturation. <i>PLoS Computational Biology</i> , 2018, 14, e1006408.	3.2	18
171	Ramifications of disorder on active particles in one dimension. <i>Physical Review E</i> , 2019, 100, 052610.	2.1	18
172	Near Field Propulsion Forces from Nonreciprocal Media. <i>Physical Review Letters</i> , 2021, 126, 170401.	7.8	18
173	Necklace model of randomly charged polymers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 249, 301-306.	2.6	17
174	Force-extension relations for polymers with sliding links. <i>Physical Review E</i> , 2002, 66, 022102.	2.1	17
175	Free energies for the discrete chain in a periodic potential and the dual Coulomb gas. <i>Physical Review B</i> , 1984, 30, 6368-6378.	3.2	16
176	Electromagnetic Casimir forces of parabolic cylinder and knife-edge geometries. <i>Physical Review D</i> , 2011, 83, .	4.7	16
177	Casimir forces between cylinders at different temperatures. <i>Physical Review D</i> , 2012, 85, .	4.7	16
178	Casimir-Polder force between anisotropic nanoparticles and gently curved surfaces. <i>Physical Review D</i> , 2015, 92, .	4.7	16
179	Effects of surface enhancement on fluctuation-induced interactions. <i>Physical Review E</i> , 1993, 47, 3456-3462.	2.1	15
180	Nonequilibrium forces following quenches in active and thermal matter. <i>Physical Review E</i> , 2018, 97, 032125.	2.1	15

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181	Evolution in range expansions with competition at rough boundaries. <i>Journal of Theoretical Biology</i> , 2019, 478, 153-160.	1.7	15
182	Exact criticality condition for randomly layered Ising models with competing interactions on a square lattice. <i>Physical Review B</i> , 1982, 26, 219-225.	3.2	14
183	Short-range and infinite-range bond percolation. <i>Physical Review B</i> , 1984, 29, 5053-5059.	3.2	14
184	New phases, commensurate-incommensurate and disordering transitions in a solvable model of adsorbed layers. <i>Physical Review B</i> , 1985, 31, 1525-1534.	3.2	14
185	Fractals and self-organized criticality in dissipative dynamics. <i>Physica D: Nonlinear Phenomena</i> , 1989, 38, 198-202.	2.8	14
186	Conformations of randomly linked polymers. <i>Physical Review E</i> , 1996, 54, 5263-5267.	2.1	14
187	Predicting transcription factor specificity with all-atom models. <i>Nucleic Acids Research</i> , 2008, 36, 6209-6217.	14.5	14
188	Small distance expansion for radiative heat transfer between curved objects. <i>Europhysics Letters</i> , 2013, 101, 34002.	2.0	14
189	Coalescence Model for Crumpled Globules Formed in Polymer Collapse. <i>Physical Review Letters</i> , 2015, 115, 088303.	7.8	14
190	Phase boundaries of the isotropic helical Potts model on a square lattice. <i>Physical Review B</i> , 1982, 26, 2693-2696.	3.2	13
191	Exact-enumeration approach to tunneling in disordered systems. <i>Physical Review B</i> , 1990, 42, 4559-4562.	3.2	13
192	Which Came First, Protein Sequence or Structure?. <i>Science</i> , 1996, 273, 610-0.	12.6	13
193	Free Energy Self-Averaging in Protein-Sized Random Heteropolymers. <i>Physical Review Letters</i> , 2001, 87, 078104.	7.8	13
194	Melting of persistent double-stranded polymers. <i>Physical Review E</i> , 2008, 78, 051910.	2.1	13
195	Quantitative Model for Efficient Temporal Targeting of Tumor Cells and Neovasculature. <i>Computational and Mathematical Methods in Medicine</i> , 2011, 2011, 1-10.	1.3	13
196	Reversing the critical Casimir force by shape deformation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 743, 138-142.	4.1	13
197	Competing Criticality of Short- and Infinite-Range Interactions on the Cayley Tree. <i>Physical Review Letters</i> , 1983, 51, 1210-1213.	7.8	12
198	A system of n interacting fermions and its unusual $n \rightarrow 0$ limit. <i>Nuclear Physics B</i> , 1993, 393, 480-494.	2.5	12

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199	Avalanche theory in rice. <i>Nature</i> , 1996, 379, 22-22.	27.8	12
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