David R Nelson

List of Publications by Year
in descending order

278 papers	38,480 citations	3531 90 h-index	2684 193 g-index
287 all docs	287 docs citations	287 times ranked	15206 citing authors

#	Article	IF	Citations
1	Anomalous Thermal Expansion in Ising-like Puckered Sheets. Physical Review Letters, 2022, 128, 075902.	7.8	7
2	Fractional defect charges in liquid crystals with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -fold rotational symmetry on cones. Physical Review E, 2022, 105, .	2.1	3
3	Statistical mechanics of dislocation pileups in two dimensions. Physical Review E, 2021, 103, 022139.	2.1	1
4	Thermal buckling and symmetry breaking in thin ribbons under compression. Extreme Mechanics Letters, 2021, 44, 101270.	4.1	10
5	The collective effect of finite-sized inhomogeneities on the spatial spread of populations in two dimensions. Journal of the Royal Society Interface, 2021, 18, 20210579.	3.4	3
6	Thermalized buckling of isotropically compressed thin sheets. Physical Review E, 2021, 104, 054141.	2.1	14
7	Rocket yeast. Physical Review Fluids, 2021, 6, .	2.5	0
8	Phonon eigenfunctions of inhomogeneous lattices: Can you hear the shape of a cone?. Physical Review E, 2021, 104, 065005.	2.1	2
9	Antagonism between killer yeast strains as an experimental model for biological nucleation dynamics. ELife, 2021, 10, .	6.0	8
10	Statistical Mechanics of Low Angle Grain Boundaries in Two Dimensions. Physical Review Letters, 2020, 125, 215503.	7.8	3
11	Buckling and metastability in membranes with dilation arrays. Physical Review E, 2020, 102, 033002.	2.1	11
12	Evolution in range expansions with competition at rough boundaries. Journal of Theoretical Biology, 2019, 478, 153-160.	1.7	15
13	Microbial Range Expansions on Liquid Substrates. Physical Review X, 2019, 9, .	8.9	14
14	Kirigami Mechanics as Stress Relief by Elastic Charges. Physical Review Letters, 2019, 122, 048001.	7.8	24
15	Nonlinear mechanics of thin frames. Physical Review E, 2019, 99, 013002.	2.1	14
16	Non-Hermitian quasilocalization and ring attractor neural networks. Physical Review E, 2019, 99, 062406.	2.1	12
17	Eigenvalue repulsion and eigenvector localization in sparse non-Hermitian random matrices. Physical Review E, 2019, 100, 052315.	2.1	12
18	Nucleation of antagonistic organisms and cellular competitions on curved, inflating substrates. Physical Review E, 2019, 100, 042406.	2.1	6

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19	Fixation probabilities in weakly compressible fluid flows. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 373-378.	7.1	13
20	Statistical Mechanics of Specular Reflections from Fluctuating Membranes and Interfaces. Journal of Statistical Physics, 2019, 175, 578-597.	1.2	0
21	Physical interactions reduce the power of natural selection in growing yeast colonies. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11448-11453.	7.1	43
22	Statistical Mechanics of Thin Spherical Shells. Physical Review X, 2017, 7, .	8.9	25
23	Population Genetics with Fluctuating Population Sizes. Journal of Statistical Physics, 2017, 167, 777-791.	1.2	22
24	Non-Hookean statistical mechanics of clamped graphene ribbons. Physical Review B, 2017, 95, .	3.2	55
25	Spatial gene drives and pushed genetic waves. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8452-8457.	7.1	60
26	Thermal crumpling of perforated two-dimensional sheets. Nature Communications, 2017, 8, 1381.	12.8	23
27	Thermal stiffening of clamped elastic ribbons. Physical Review B, 2017, 96, .	3.2	16
28	Striated populations in disordered environments with advection. Physica A: Statistical Mechanics and Its Applications, 2017, 465, 500-514.	2.6	8
29	Genetic drift and selection in many-allele range expansions. PLoS Computational Biology, 2017, 13, e1005866.	3.2	25
30	Plastic deformation of tubular crystals by dislocation glide. Physical Review E, 2016, 94, 033004.	2.1	13
31	Spatially Constrained Growth Enhances Conversional Meltdown. Biophysical Journal, 2016, 110, 2800-2808.	0.5	25
32	Response of thermalized ribbons to pulling and bending. Physical Review B, 2016, 93, .	3.2	80
33	Non-Hermitian localization in biological networks. Physical Review E, 2016, 93, 042310.	2.1	73
34	Evolutionary dynamics with fluctuating population sizes and strong mutualism. Physical Review E, 2015, 92, 022718.	2.1	19
35	Survival probabilities at spherical frontiers. Theoretical Population Biology, 2015, 102, 26-39.	1.1	24
36	How Obstacles Perturb Population Fronts and Alter Their Genetic Structure. PLoS Computational Biology, 2015, 11, e1004615.	3.2	29

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37	Thermal excitations of warped membranes. Physical Review E, 2014, 89, 022126.	2.1	25
38	Quantum hexatic order in two-dimensional dipolar and charged fluids. Physical Review B, 2014, 89, .	3.2	17
39	Bending forces plastically deform growing bacterial cell walls. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5778-5783.	7.1	123
40	Asymmetric Mutualism in Two- and Three-Dimensional Range Expansions. Physical Review Letters, 2014, 112, 138102.	7.8	26
41	Elastic Instability of a Crystal Growing on a Curved Surface. Science, 2014, 343, 634-637.	12.6	205
42	Genetic drift opposes mutualism during spatial population expansion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1037-1042.	7.1	173
43	Spinodal Decomposition in Homogeneous and Isotropic Turbulence. Physical Review Letters, 2014, 112, 014502.	7.8	43
44	Nutrient shielding in clusters of cells. Physical Review E, 2013, 87, 062703.	2.1	46
45	Buckling pathways in spherical shells with soft spots. Soft Matter, 2013, 9, 8227.	2.7	60
46	Elastic Platonic Shells. Physical Review Letters, 2013, 111, 177801.	7.8	40
47	Mechanical properties of warped membranes. Physical Review E, 2013, 88, 012136.	2.1	46
48	Cumulative compressibility effects on slow reactive dynamics in turbulent flows. Journal of Turbulence, 2013, 14, 161-169.	1.4	3
49	Theory of interacting dislocations on cylinders. Physical Review E, 2013, 87, 042314.	2.1	10
50	Radial Domany-Kinzel models with mutation and selection. Physical Review E, 2013, 87, 012103.	2.1	42
51	Selective sweeps in growing microbial colonies. Physical Biology, 2012, 9, 026008.	1.8	150
52	Population Genetics in Compressible Flows. Physical Review Letters, 2012, 108, 128102.	7.8	42
53	Fluctuating shells under pressure. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19551-19556.	7.1	57
54	Dislocation-mediated growth of bacterial cell walls. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9833-9838.	7.1	49

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55	Delayed Buckling and Guided Folding of Inhomogeneous Capsules. Physical Review Letters, 2012, 109, 134302.	7.8	130
56	Biophysical Dynamics in Disorderly Environments. Annual Review of Biophysics, 2012, 41, 371-402.	10.0	20
57	Statistics of population dynamics in turbulence. Journal of Physics: Conference Series, 2011, 318, 092025.	0.4	1
58	A Quantitative Test of Population Genetics Using Spatiogenetic Patterns in Bacterial Colonies. American Naturalist, 2011, 178, 538-552.	2.1	94
59	Competition and Cooperation in One-Dimensional Stepping-Stone Models. Physical Review Letters, 2011, 107, 088103.	7.8	54
60	LIFE AT THE FRONT OF AN EXPANDING POPULATION. Evolution; International Journal of Organic Evolution, 2010, 64, 193-206.	2.3	221
61	Population Dynamics At High Reynolds Number. Physical Review Letters, 2010, 105, 144501.	7.8	42
62	Structure and dynamics of topological defects in a glassy liquid on a negatively curved manifold. Physical Review E, 2010, 81, 031504.	2.1	22
63	Foldable structures and the natural design of pollen grains. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7635-7639.	7.1	239
64	Vortices on curved surfaces. Reviews of Modern Physics, 2010, 82, 1301-1348.	45.6	146
65	Genetic demixing and evolution in linear stepping stone models. Reviews of Modern Physics, 2010, 82, 1691-1718.	45.6	208
66	Two-parameter sequential adsorption model applied to microfiber clustering. Soft Matter, 2010, 6, 2421.	2.7	11
67	Collapse and folding of pressurized rings in two dimensions. Physical Review E, 2009, 79, 056604.	2.1	14
68	Fisher equation with turbulence in one dimension. Physica D: Nonlinear Phenomena, 2009, 238, 2003-2015.	2.8	21
69	Shear Unzipping of DNA. Journal of Physical Chemistry B, 2009, 113, 3831-3836.	2.6	23
70	Extrinsic curvature, geometric optics, and lamellar order on curved substrates. Physical Review E, 2009, 80, 051703.	2.1	39
71	Population genetics and range expansions. Physics Today, 2009, 62, 42-47.	0.3	8
72	Gene surfing in expanding populations. Theoretical Population Biology, 2008, 73, 158-170.	1.1	331

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73	Genome Landscapes and Bacteriophage Codon Usage. PLoS Computational Biology, 2008, 4, e1000001.	3.2	75
74	Localization behavior of vibrational modes in granular packings. Europhysics Letters, 2008, 83, 44001.	2.0	23
75	Orientation-dependent interactions of DNA with an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-hemolysin channel. Physical Review E, 2008, 77, 031904.	2.1	26
76	Defect-mediated emulsification in two dimensions. Physical Review E, 2008, 77, 051702.	2.1	16
77	Genetic drift at expanding frontiers promotes gene segregation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19926-19930.	7.1	601
78	Soft modes near the buckling transition of icosahedral shells. Physical Review E, 2007, 76, 031911.	2.1	47
79	Interstitial fractionalization and spherical crystallography. Physical Chemistry Chemical Physics, 2007, 9, 6304.	2.8	19
80	Unzipping vortices in type-II superconductors. Physical Review B, 2007, 76, .	3.2	10
81	Geometric Theory of Columnar Phases on Curved Substrates. Physical Review Letters, 2007, 99, 017801.	7.8	46
82	Crystalline particle packings on a sphere with long-range power-law potentials. Physical Review B, 2006, 73, .	3.2	65
83	Transverse Meissner physics of planar superconductors with columnar pins. Physical Review B, 2006, 74, .	3.2	14
84	Vortex pinning by meandering line defects in planar superconductors. Physical Review B, 2006, 73, .	3.2	2
85	Conditions for extreme sensitivity of protein diffusion in membranes to cell environments. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15002-15007.	7.1	31
86	Direct visualization of dislocation dynamics in grain-boundary scars. Nature Materials, 2005, 4, 407-411.	27.5	147
87	Extended Abstract: Plateaus and Jumps in Single-Molecule DNA Unzipping Experiments. Journal of Biological Physics, 2005, 31, 241-242.	1.5	0
88	Sequence heterogeneity and the dynamics of molecular motors. Journal of Physics Condensed Matter, 2005, 17, S3871-S3886.	1.8	11
89	Vortex pinning by a columnar defect in planar superconductors with point disorder. Physical Review B, 2005, 71, .	3.2	15
90	Dynamics of molecular motors with finite processivity on heterogeneous tracks. Physical Review E, 2005, 71, 041906.	2.1	20

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91	Virus Shapes and Buckling Transitions in Spherical Shells. Journal of Theoretical Medicine, 2005, 6, 137-137.	0.5	0
92	Orientation discrimination of single-stranded DNA inside the Â-hemolysin membrane channel. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12377-12382.	7.1	308
93	A quasispecies on a moving oasis. Theoretical Population Biology, 2005, 67, 33-45.	1.1	24
94	Non-Hermitian Luttinger liquids and flux line pinning in planar superconductors. Journal of Statistical Mechanics: Theory and Experiment, 2004, 2004, P10003.	2.3	32
95	Curvature-induced defect unbinding in toroidal geometries. Physical Review E, 2004, 69, 041102.	2.1	67
96	Defect generation and deconfinement on corrugated topographies. Physical Review E, 2004, 70, 051105.	2.1	46
97	Vortices weave a tangled web. Nature, 2004, 430, 839-840.	27.8	10
98	THE STATISTICAL MECHANICS OF MEMBRANES AND INTERFACES. , 2004, , 1-17.		19
99	Dynamics of Molecular Motors and Polymer Translocation with Sequence Heterogeneity. Biophysical Journal, 2004, 86, 3373-3391.	0.5	97
100	Statistical Physics of Unzipping DNA. , 2004, , 65-92.		4
101	THEORY OF THE CRUMPLING TRANSITION. , 2004, , 131-148.		6
102	DNA unzipped under a constant force exhibits multiple metastable intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1694-1699.	7.1	147
103	Hexatic undulations in curved geometries. Physical Review E, 2003, 67, 031502.	2.1	14
104	Virus shapes and buckling transitions in spherical shells. Physical Review E, 2003, 68, 051910.	2.1	365
105	Toward a Tetravalent Chemistry of Colloids. Nano Letters, 2002, 2, 1125-1129.	9.1	317
106	Single molecule statistics and the polynucleotide unzipping transition. Physical Review E, 2002, 65, 031917.	2.1	144
107	Novel phases and reentrant melting of two-dimensional colloidal crystals. Physical Review E, 2001, 63, 031503.	2.1	60
108	Vortex wandering among splayed columnar defects. Physical Review B, 2001, 64, .	3.2	5

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109	Interaction effects in non-Hermitian models of vortex physics. Physical Review B, 2001, 64, .	3.2	8
110	Hexatic Order and Surface Ripples in Spherical Geometries. Physical Review Letters, 2001, 87, 125703.	7.8	9
111	B(H) constitutive relations near Hc1 in disordered superconductors. Physica C: Superconductivity and Its Applications, 2000, 331, 317-336.	1.2	6
112	Vortex physics in confined geometries. Physica C: Superconductivity and Its Applications, 2000, 330, 105-129.	1.2	16
113	Population Dynamics near an Oasis with Time-Dependent Convection. Journal of Statistical Physics, 2000, 99, 1021-1030.	1.2	5
114	Life and death near a windy oasis. Journal of Mathematical Biology, 2000, 41, 1-23.	1.9	81
115	Bose glass scaling for superconducting vortex arrays revisited. Physical Review B, 2000, 61, 5917-5919.	3.2	14
116	Pulling Pinned Polymers and Unzipping DNA. Physical Review Letters, 2000, 85, 1572-1575.	7.8	177
117	Statistical mechanics of vacancy and interstitial strings in hexagonal columnar crystals. Physical Review E, 2000, 61, 1599-1615.	2.1	20
118	Channel flow of smectic films. Physical Review E, 2000, 61, 3942-3950.	2.1	1
119	Interacting topological defects on frozen topographies. Physical Review B, 2000, 62, 8738-8751.	3.2	186
120	Patterned geometries and hydrodynamics at the vortex Bose glass transition. Physical Review B, 1999, 59, 13624-13627.	3.2	16
121	Population dynamics and Burgersâ€™ equation. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 85-90.	2.6	5
122	Light-Induced Melting of Colloidal Crystals in Two Dimensions. Physical Review Letters, 1999, 83, 2977-2980.	7.8	79
123	Driven Polymer Translocation Through a Narrow Pore. Biophysical Journal, 1999, 77, 1824-1838.	0.5	396
124	Population dynamics and non-Hermitian localization. , 1999, , 124-151.		7
125	Non-Hermitian delocalization and eigenfunctions. Physical Review B, 1998, 58, 8384-8390.	3.2	198
126	Vortex pinning and the non-Hermitian Mott transition. Physical Review B, 1998, 58, 12385-12403.	3.2	18

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127	Winding Numbers, Complex Currents, and Non-Hermitian Localization. Physical Review Letters, 1998, 80, 5172-5175.	7.8	80
128	Non-Hermitian localization and population biology. Physical Review E, 1998, 58, 1383-1403.	2.1	215
129	Pinning and sliding of tethered monolayers on disordered substrates. Physical Review E, 1997, 56, 797-808.	2.1	9
130	Polymer winding numbers and quantum mechanics. , 1997, , 276-297.		1
131	Vortex pinning and non-Hermitian quantum mechanics. Physical Review B, 1997, 56, 8651-8673.	3.2	435
132	Vortex Physics in High-Temperature Superconductors. Physics Today, 1997, 50, 38-45.	0.3	198
133	A new age for type-II superconductors?. Nature, 1997, 385, 675-676.	27.8	12
134	Superfluid bosons and flux liquids: disorder, thermal fluctuations, and finite-size effects. Physics Reports, 1997, 289, 157-233.	25.6	45
135	Localization Transitions in Non-Hermitian Quantum Mechanics. Physical Review Letters, 1996, 77, 570-573.	7.8	951
136	Icelike Melting of Hexagonal Columnar Crystals. Macromolecules, 1996, 29, 8523-8529.	4.8	10
137	Points, lines and planes: vortex pinning in high-temperature superconductors. Physica C: Superconductivity and Its Applications, 1996, 263, 12-16.	1.2	11
138	Irreversibility, mechanical entanglement and thermal melting in superconducting vortex crystals with point impurities. Physica C: Superconductivity and Its Applications, 1996, 272, 79-86.	1.2	257
139	Free energies of isolated five- and sevenfold disclinations in hexatic membranes. Physical Review E, 1996, 53, 2551-2559.	2.1	20
140	Defects in chiral columnar phases: Tilt-grain boundaries and iterated moirÃ© maps. Physical Review E, 1996, 53, 650-666.	2.1	46
141	Longitudinal current dissipation in Bose-glass superconductors. Physical Review B, 1996, 54, R6845-R6848.	3.2	21
142	Dislocation-mediated melting near isostructural critical points. Physical Review E, 1996, 53, 2560-2570.	2.1	39
143	Ice-Like Melting of Flexible Line Crystals. Molecular Crystals and Liquid Crystals, 1996, 288, 1-6.	0.3	1
144	Boson Physics and Vortex Pinning Via Splayed Columnar Defects in Superconductors. , 1996, , 21-26.		0

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145	Vortex lattice melts like ice. Nature, 1995, 375, 356-357.	27.8	26
146	Theory of double-sided flux decorations. Physical Review B, 1995, 52, 7720-7726.	3.2	7
147	Iterated MoirÃ© Maps and Braiding of Chiral Polymer Crystals. Physical Review Letters, 1995, 74, 2499-2502.	7.8	45
148	Quantum smectic and supersolid order in helium films and vortex arrays. Physical Review B, 1995, 52, 12951-12968.	3.2	101
149	Interactions and pinning energies in the Bose glass phase of vortices in superconductors. Physical Review B, 1995, 52, 16106-16124.	3.2	46
150	Coulomb Gap and Correlated Vortex Pinning in Superconductors. Physical Review Letters, 1995, 74, 5132-5135.	7.8	39
151	Statistical Mechanics of Directed Polymers. , 1995, , 293-335.		0
152	Interstitials, vacancies, and supersolid order in vortex crystals. Physical Review B, 1994, 49, 9723-9745.	3.2	108
153	Surface wave scattering at nonuniform fluid interfaces. Journal of Chemical Physics, 1994, 101, 9022-9032.	3.0	13
154	Fluctuations and Intrinsic Pinning in Layered Superconductors. Physical Review Letters, 1994, 73, 2618-2621.	7.8	70
155	Towards engineering of splayed columnar defects in type-II superconductors. Physica C: Superconductivity and Its Applications, 1994, 232, 69-74.	1.2	24
156	Directed polymer melts and quantum critical phenomena. Journal of Statistical Physics, 1993, 71, 23-50.	1.2	15
157	Grain-boundary buckling and spin-glass models of disorder in membranes. Physical Review E, 1993, 48, 3082-3090.	2.1	34
158	Buckling instabilities of a confined colloid crystal layer. Physical Review E, 1993, 48, 4611-4621.	2.1	47
159	Rotational invariance and the theory of directed nematic polymers. Physical Review E, 1993, 48, 4116-4117.	2.1	4
160	Flux pinning and forced vortex entanglement by splayed columnar defects. Physical Review Letters, 1993, 71, 3545-3548.	7.8	202
161	Boson localization and correlated pinning of superconducting vortex arrays. Physical Review B, 1993, 48, 13060-13097.	3.2	932
162	Flux-line pinning by competing disorders. Physical Review B, 1993, 48, 1167-1174.	3.2	103

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163	Translational correlations in the vortex array at the surface of a type-II superconductor. Physical Review B, 1993, 47, 12214-12223.	3.2	11
164	Vortex Line Fluctuations in Superconductors from Elementary Quantum Mechanics. , 1993, , 95-117.		2
165	Interstitial and Vacancy Proliferation in Flux Line Lattices. , 1993, , 123-127.		0
166	Theory of directed polymers. Physical Review A, 1992, 45, 8727-8750.	2.5	67
167	Grain-boundary instabilities and buckling in partially polymerized membranes. Physical Review A, 1992, 46, 7474-7479.	2.5	20
168	Conformations of Crumpled Sheet Polymers. Materials Research Society Symposia Proceedings, 1992, 272, 301.	0.1	0
169	Boson localization and pinning by correlated disorder in high-temperature superconductors. Physical Review Letters, 1992, 68, 2398-2401.	7.8	570
170	Line liquids. Physica A: Statistical Mechanics and Its Applications, 1991, 177, 220-232.	2.6	25
171	Dynamics of flux-line liquids in high-Tc superconductors. Physica C: Superconductivity and Its Applications, 1991, 174, 40-62.	1.2	77
172	Statistical mechanics of randomly polymerized membranes. Physical Review A, 1991, 44, 3525-3542.	2.5	62
173	Dynamics of flat membranes and flickering in red blood cells. Journal De Physique, I, 1991, 1, 1715-1757.	1.2	33
174	Dislocation loops and bond-orientational order in the Abrikosov flux-line lattice. Physical Review B, 1990, 41, 1910-1920.	3.2	152
175	Correlations in flux liquids with weak disorder. Physical Review B, 1990, 42, 10113-10129.	3.2	83
176	Hydrodynamics of flux liquids. Physical Review B, 1990, 42, 9938-9943.	3.2	126
177	Consensus meeting agrees distribution of 5-HT3 receptors in mammalian hindbrain. Trends in Pharmacological Sciences, 1990, 11, 135-137.	8.7	115
178	Fluctuations in the flat and collapsed phases of polymerized membranes. Journal De Physique, 1990, 51, 2653-2672.	1.8	99
179	Icosahedral Crystals in Perspective. Science, 1990, 249, 111-111.	12.6	0
180	Theory of transitions among tilted hexatic phases in liquid crystals. Physical Review A, 1989, 39, 3135-3147.	2.5	68

#	Article	IF	Citations
181	Comment on "Icosahedral Ordering in the Lennard-Jones Liquid and Glass". Physical Review Letters, 1989, 62, 978-978.	7.8	8
182	Theory of melted flux liquids. Physical Review B, 1989, 39, 9153-9174.	3.2	610
183	Polytetrahedral Order in Condensed Matter. Solid State Physics, 1989, 42, 1-90.	0.5	241
184	Melted flux liquids in high- T c superconductors. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1156-1161.	1.2	11
185	Statistical mechanics of flux lines in high-T c superconductors. Journal of Statistical Physics, 1989, 57, 511-530.	1.2	87
186	[3H]-BRL 43694 (granisetron), a specific ligand for 5-HT3 binding sites in rat brain cortical membranes. Biochemical Pharmacology, 1989, 38, 1693-1695.	4.4	141
187	Two-dimensional quantum Heisenberg antiferromagnet at low temperatures. Physical Review B, 1989, 39, 2344-2371.	3.2	1,276
188	Defects in flexible membranes with crystalline order. Physical Review A, 1988, 38, 1005-1018.	2.5	463
189	Low-temperature behavior of two-dimensional quantum antiferromagnets. Physical Review Letters, 1988, 60, 1057-1060.	7.8	824
190	Kantor, Kardar, and Nelson Reply. Physical Review Letters, 1988, 60, 238-238.	7.8	10
191	Landau Theory of the Crumpling Transition. Physical Review Letters, 1988, 60, 2638-2640.	7.8	166
192	Theory of Hexatic-to-Hexatic Transitions. Physical Review Letters, 1988, 61, 416-419.	7.8	55
193	Statistical mechanics of self-avoiding tethered manifolds. Physical Review A, 1988, 38, 966-982.	2.5	64
194	Diffuse scattering from quasicrystals. Physical Review B, 1988, 37, 4458-4472.	3.2	130
195	Vortex Entanglement in High-TcSuperconductors. Physical Review Letters, 1988, 60, 1973-1976.	7.8	871
196	Crumpling transition in polymerized membranes. Physical Review Letters, 1987, 58, 2774-2777.	7.8	205
197	Îµexpansions for crumpled manifolds. Physical Review Letters, 1987, 58, 1289-1292.	7.8	98
198	Tethered surfaces: Statics and dynamics. Physical Review A, 1987, 35, 3056-3071.	2.5	229

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199	ÎµExpansions for Crumpled Manifolds. Physical Review Letters, 1987, 58, 2280-2280.	7.8	27
200	Phase transitions in flexible polymeric surfaces. Physical Review A, 1987, 36, 4020-4032.	2.5	204
201	Icosahedral Order in Glassy Metalsa. Annals of the New York Academy of Sciences, 1986, 484, 264-270.	3.8	1
202	Quasicrystals. Scientific American, 1986, 255, 42-51.	1.0	48
203	Statistical Mechanics of Tethered Surfaces. Physical Review Letters, 1986, 57, 791-794.	7.8	285
204	ICOSAHEDRAL ORDER IN UNDERCOOLED LIQUIDS AND METALLIC GLASSES. , 1986, , 28-44.		3
205	Polytope Models of Metallic Glasses: S-Band Electronic Properties. Materials Research Society Symposia Proceedings, 1985, 57, 185.	0.1	1
206	Statistical mechanics of pentagonal and icosahedral order in dense liquids. Physical Review B, 1985, 32, 1480-1502.	3.2	118
207	Incommensurate icosahedral density waves in rapidly cooled metals. Physical Review B, 1985, 32, 689-695.	3.2	65
208	Order in metallic glasses and icosahedral crystals. Physical Review B, 1985, 32, 4592-4606.	3.2	207
209	Commensurate-Incommensurate Transitions with Quenched Random Impurities. Physical Review Letters, 1985, 55, 1157-1160.	7.8	95
210	Icosahedral order in glassy metals. Journal of Non-Crystalline Solids, 1985, 75, 77-78.	3.1	2
211	Phospholipid and detergent effects on (Ca2+ + Mg2+)ATpase purified from human erythrocytes. Archives of Biochemistry and Biophysics, 1985, 236, 720-730.	3.0	24
212	The structure and statistical mechanics of glass. , 1985, , 13-30.		1
213	Order and frustration on a random topography. , 1985, , 227-230.		0
214	Turbulence in phase-separating binary mixtures. Physical Review A, 1984, 29, 2012-2016.	2.5	53
215	Anomalous diffusion in steady fluid flow through a porous medium. Physical Review A, 1984, 30, 1948-1954.	2.5	74
216	Theory of the Structure Factor of Metallic Glasses. Physical Review Letters, 1984, 53, 1947-1950.	7.8	239

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