

David A Kessler

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

205
papers

6,418
citations

38
h-index

73
g-index

210
ext. papers

7,000
ext. citations

4.2
avg. IF

5.88
L-index

#	Paper	IF	Citations
205	Pattern selection in fingered growth phenomena. <i>Advances in Physics</i> , 1988 , 37, 255-339	18.4	831
204	Phase-field model of mode III dynamic fracture. <i>Physical Review Letters</i> , 2001 , 87, 045501	7.4	391
203	Geometrical models of interface evolution. <i>Physical Review A</i> , 1984 , 29, 1335-1342	2.6	223
202	RNA virus evolution via a fitness-space model. <i>Physical Review Letters</i> , 1996 , 76, 4440-4443	7.4	201
201	Geometrical Approach to Moving-Interface Dynamics. <i>Physical Review Letters</i> , 1983 , 51, 1111-1114	7.4	178
200	Stability of dendritic crystals. <i>Physical Review Letters</i> , 1986 , 57, 3069-3072	7.4	145
199	Directional sensing in eukaryotic chemotaxis: a balanced inactivation model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9761-6	11.5	128
198	Geometrical models of interface evolution. II. Numerical simulation. <i>Physical Review A</i> , 1984 , 30, 3161-3174	7.4	122
197	Steady-state dendritic crystal growth. <i>Physical Review A</i> , 1986 , 33, 3352-3357	2.6	111
196	Front propagation: Precursors, cutoffs, and structural stability. <i>Physical Review E</i> , 1998 , 58, 107-114	2.4	105
195	Geometrical models of interface evolution. III. Theory of dendritic growth. <i>Physical Review A</i> , 1985 , 31, 1712-1717	2.6	105
194	Pattern formation in Dictyostelium via the dynamics of cooperative biological entities. <i>Physical Review E</i> , 1993 , 48, 4801-4804	2.4	103
193	Interface fluctuations in random media. <i>Physical Review A</i> , 1991 , 43, 4551-4554	2.6	103
192	Stability of the dense radial morphology in diffusive pattern formation. <i>Physical Review Letters</i> , 1987 , 59, 2315-2318	7.4	101
191	Fluctuation-induced diffusive instabilities. <i>Nature</i> , 1998 , 394, 556-558	50.4	98
190	Extinction Rates for Fluctuation-Induced Metastabilities: A Real-Space WKB Approach. <i>Journal of Statistical Physics</i> , 2007 , 127, 861-886	1.5	91
189	Roughening phase transition in surface growth. <i>Physical Review Letters</i> , 1990 , 64, 926-929	7.4	90

188	Molecular-beam epitaxial growth and surface diffusion. <i>Physical Review Letters</i> , 1992 , 69, 100-103	7.4	86
187	Infinite covariant density for diffusion in logarithmic potentials and optical lattices. <i>Physical Review Letters</i> , 2010 , 105, 120602	7.4	81
186	Velocity selection in dendritic growth. <i>Physical Review B</i> , 1986 , 33, 7867-7870	3.3	77
185	Dendritic growth in a channel. <i>Physical Review A</i> , 1986 , 34, 4980-4987	2.6	77
184	Numerical simulation of two-dimensional snowflake growth. <i>Physical Review A</i> , 1984 , 30, 2820-2823	2.6	77
183	Theory of fractional Lévy kinetics for cold atoms diffusing in optical lattices. <i>Physical Review Letters</i> , 2012 , 108, 230602	7.4	75
182	Pattern selection in three dimensional dendritic growth. <i>Acta Metallurgica</i> , 1988 , 36, 2693-2706		75
181	Transient localized patterns in noise-driven reaction-diffusion systems. <i>Physical Review Letters</i> , 2010 , 104, 158301	7.4	65
180	Recombination dramatically speeds up evolution of finite populations. <i>Physical Review Letters</i> , 2005 , 94, 098102	7.4	62
179	Theory of the Saffman-Taylor "finger" pattern. I. <i>Physical Review A</i> , 1986 , 33, 2621-2633	2.6	61
178	Steady-state cellular growth during directional solidification. <i>Physical Review A</i> , 1989 , 39, 3041-3052	2.6	60
177	Evolution on a smooth landscape. <i>Journal of Statistical Physics</i> , 1997 , 87, 519-544	1.5	57
176	Stability of finger patterns in Hele-Shaw cells. <i>Physical Review A</i> , 1985 , 32, 1930-1933	2.6	54
175	Monopole Condensation and the Lattice-Quantum-Chromodynamics Crossover. <i>Physical Review Letters</i> , 1981 , 47, 621-624	7.4	54
174	Theory of the Saffman-Taylor "finger" pattern. II. <i>Physical Review A</i> , 1986 , 33, 2634-2639	2.6	48
173	Growth feedback as a basis for persistent bistability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 544-9	11.5	46
172	Stretching instability of helical springs. <i>Physical Review Letters</i> , 2003 , 90, 024301	7.4	44
171	Interaction between a drifting spiral and defects. <i>Physical Review E</i> , 1993 , 47, R800-R803	2.4	43

170	Temporal fluctuation scaling in populations and communities. <i>Ecology</i> , 2014 , 95, 1701-9	4.6	42
169	Growth velocity of three-dimensional dendritic crystals. <i>Physical Review A</i> , 1987 , 36, 4123-4126	2.6	40
168	Large population solution of the stochastic Luria-Delbruck evolution model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11682-7	11.5	38
167	Generalized model of island biodiversity. <i>Physical Review E</i> , 2015 , 91, 042705	2.4	37
166	Determining the Wavelength of Dendritic Sidebranches. <i>Europhysics Letters</i> , 1987 , 4, 215-221	1.6	36
165	Resistance to chemotherapy: patient variability and cellular heterogeneity. <i>Cancer Research</i> , 2014 , 74, 4663-70	10.1	35
164	Dynamics of SU(2) lattice gauge theories. <i>Nuclear Physics B</i> , 1982 , 205, 77-106	2.8	35
163	Lissajous singularities. <i>Optics Letters</i> , 2003 , 28, 111-3	3	33
162	The effect of environmental stochasticity on species richness in neutral communities. <i>Journal of Theoretical Biology</i> , 2016 , 409, 155-164	2.3	32
161	Fluctuations of time averages for Langevin dynamics in a binding force field. <i>Physical Review Letters</i> , 2011 , 107, 240603	7.4	32
160	Solution of the Fokker-Planck Equation with a Logarithmic Potential. <i>Journal of Statistical Physics</i> , 2011 , 145, 1524-1545	1.5	32
159	Critical point trajectory bundles in singular wave fields. <i>Optics Communications</i> , 2001 , 187, 71-90	2	32
158	Bardeen-Moshe-Bander Fixed Point and the Ultraviolet Triviality of $(E_8)_{33}$. <i>Physical Review Letters</i> , 1984 , 53, 2071-2074	7.4	32
157	Mechanisms of cooperativity underlying sequence-independent β -sheet formation. <i>Journal of Chemical Physics</i> , 2002 , 116, 4353-4365	3.9	30
156	A study of $(E_8)_{33}$ at $N = \infty$. <i>Nuclear Physics B</i> , 1985 , 257, 695-728	2.8	30
155	Transition Phenomena Induced by Internal Noise and Quasi-Absorbing State. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 044002	1.5	29
154	Mutator Dynamics on a Smooth Evolutionary Landscape. <i>Physical Review Letters</i> , 1998 , 80, 2012-2015	7.4	29
153	Coexistence of symmetric and parity-broken dendrites in a channel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995 , 213, 451-464	3.3	29

152	Spiral core in singly diffusive excitable media. <i>Physical Review Letters</i> , 1992 , 68, 401-404	7.4	29
151	The fixation probability of rare mutators in finite asexual populations. <i>Genetics</i> , 2009 , 181, 1595-612	4	28
150	Steady-state cracks in viscoelastic lattice models. <i>Physical Review E</i> , 1999 , 59, 5154-64	2.4	27
149	First Detected Arrival of a Quantum Walker on an Infinite Line. <i>Physical Review Letters</i> , 2018 , 120, 040502	7.4	26
148	Optimal strategy for competence differentiation in bacteria. <i>PLoS Genetics</i> , 2010 , 6, e1001108	6	26
147	Effects of input noise on a simple biochemical switch. <i>Physical Review Letters</i> , 2011 , 107, 148101	7.4	26
146	Scaling solution in the large population limit of the general asymmetric stochastic Luria-Delbrück evolution process. <i>Journal of Statistical Physics</i> , 2015 , 158, 783-805	1.5	25
145	Front propagation up a reaction rate gradient. <i>Physical Review E</i> , 2005 , 72, 066126	2.4	24
144	From Non-Normalizable Boltzmann-Gibbs Statistics to Infinite-Ergodic Theory. <i>Physical Review Letters</i> , 2019 , 122, 010601	7.4	24
143	Universal dimer in a collisionally opaque medium: experimental observables and Efimov resonances. <i>Physical Review Letters</i> , 2012 , 108, 130403	7.4	23
142	Solution of an infection model near threshold. <i>Physical Review E</i> , 2007 , 76, 010901	2.4	23
141	Effect of diffusion on patterns in excitable Belousov-Zhabotinskii systems. <i>Physica D: Nonlinear Phenomena</i> , 1989 , 39, 1-14	3.3	23
140	Selection of the Viscous Finger in the 90° Geometry. <i>Europhysics Letters</i> , 1990 , 13, 161-166	1.6	23
139	Superaging correlation function and ergodicity breaking for Brownian motion in logarithmic potentials. <i>Physical Review E</i> , 2012 , 85, 051124	2.4	22
138	Universal features of surname distribution in a subsample of a growing population. <i>Journal of Theoretical Biology</i> , 2010 , 262, 245-56	2.3	22
137	Theory of the spiral core in excitable media. <i>Physica D: Nonlinear Phenomena</i> , 1994 , 70, 115-139	3.3	22
136	Coalescence of Saffman-Taylor fingers: A new global instability. <i>Physical Review A</i> , 1986 , 33, 3625-3627	2.6	22
135	Stability of two-species communities: Drift, environmental stochasticity, storage effect and selection. <i>Theoretical Population Biology</i> , 2018 , 119, 57-71	1.2	21

134	Mechanical bounds to transcriptional noise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13983-13988	11.5	21
133	Model for macroevolutionary dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2460-9	11.5	21
132	Steady-state mode I cracks in a viscoelastic triangular lattice. <i>Journal of the Mechanics and Physics of Solids</i> , 2002 , 50, 583-613	5	21
131	Drift of spiral waves in excitable media. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 85, 142-155	3.3	21
130	SU(2) adjoint Higgs model. <i>Physical Review D</i> , 1982 , 25, 3319-3324	4.9	21
129	Mode-I fracture in a nonlinear lattice with viscoelastic forces. <i>Physical Review E</i> , 2002 , 66, 016126	2.4	20
128	Boundary-induced drift of spirals in excitable media. <i>Physical Review E</i> , 1994 , 50, 2395-2398	2.4	20
127	Stability of traveling waves in the Belousov-Zhabotinskii reaction. <i>Physical Review A</i> , 1990 , 41, 5418-5430.6	2.6	20
126	Coupled-map lattice model for crystal growth. <i>Physical Review A</i> , 1990 , 42, 6125-6128	2.6	20
125	Large Fluctuations for Spatial Diffusion of Cold Atoms. <i>Physical Review Letters</i> , 2017 , 118, 260601	7.4	19
124	Computational modeling of mound development in Dictyostelium. <i>Physica D: Nonlinear Phenomena</i> , 1997 , 106, 375-388	3.3	19
123	Experimental measurements of topological singularity screening in random paraxial scalar and vector optical fields. <i>Physical Review Letters</i> , 2008 , 100, 103901	7.4	19
122	Effects of thymic selection on T cell recognition of foreign and tumor antigenic peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7875-E7881	11.5	18
121	Neutral-like abundance distributions in the presence of selection in a continuous fitness landscape. <i>Journal of Theoretical Biology</i> , 2014 , 345, 1-11	2.3	18
120	The birth-death-mutation process: a new paradigm for fat tailed distributions. <i>PLoS ONE</i> , 2011 , 6, e26480.7	2.7	18
119	Steady-state cracks in viscoelastic lattice models. II. <i>Physical Review E</i> , 2000 , 61, 2348-2360	2.4	18
118	Evolution on a Smooth Landscape: The Role of Bias. <i>Journal of Statistical Physics</i> , 1998 , 90, 191-210	1.5	17
117	Nonlinear lattice model of viscoelastic mode III fracture. <i>Physical Review E</i> , 2001 , 63, 016118	2.4	17

116	Phase autocorrelation of random wave fields. <i>Optics Communications</i> , 1996 , 124, 321-332	2	17
115	Discrete set selection of Saffman-Taylor fingers. <i>Physics of Fluids</i> , 1987 , 30, 1246		17
114	Darwinian selection of host and bacteria supports emergence of Lamarckian-like adaptation of the system as a whole. <i>Biology Direct</i> , 2018 , 13, 24	7.2	17
113	Deviations from Boltzmann-Gibbs Statistics in Confined Optical Lattices. <i>Physical Review Letters</i> , 2015 , 115, 173006	7.4	16
112	How does a beta-hairpin fold/unfold? competition between topology and heterogeneity in a solvable model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 10775-9	11.5	16
111	Neutral dynamics with environmental noise: Age-size statistics and species lifetimes. <i>Physical Review E</i> , 2015 , 92, 022722	2.4	15
110	Fluctuations and dispersal rates in population dynamics. <i>Physical Review E</i> , 2009 , 80, 041907	2.4	15
109	Does the continuum theory of dynamic fracture work?. <i>Physical Review E</i> , 2003 , 68, 036118	2.4	15
108	Fluctuation-regularized front propagation dynamics in reaction-diffusion systems. <i>Physical Review Letters</i> , 2005 , 94, 158302	7.4	15
107	Spiral-core meandering in excitable media. <i>Physical Review A</i> , 1992 , 46, 5264-5267	2.6	14
106	Infinite N (?) ³³ on the lattice. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985 , 157, 416-420	4.2	14
105	Heavy-tailed phase-space distributions beyond Boltzmann-Gibbs: Confined laser-cooled atoms in a nonthermal state. <i>Physical Review E</i> , 2016 , 94, 022151	2.4	13
104	Effect of curvature and twist on the conformations of a fluctuating ribbon. <i>Journal of Chemical Physics</i> , 2003 , 118, 897-904	3.9	13
103	Microscopic selection of fluid fingering patterns. <i>Physical Review Letters</i> , 2001 , 86, 4532-5	7.4	13
102	Frenet algorithm for simulations of fluctuating continuous elastic filaments. <i>Physical Review E</i> , 2002 , 65, 020801	2.4	13
101	Two state behavior in a solvable model of beta-hairpin folding. <i>Physical Review Letters</i> , 2000 , 84, 3490-3	7.4	13
100	Arrested cracks in nonlinear lattice models of brittle fracture. <i>Physical Review E</i> , 1999 , 60, 7569-71	2.4	13
99	Spirals in excitable media: the free-boundary limit with diffusion. <i>Physica D: Nonlinear Phenomena</i> , 1996 , 97, 509-516	3.3	13

98	Meandering instability of a spiral interface in the free boundary limit. <i>Physical Review E</i> , 1996 , 54, 6065-6069	6.4	13
97	Epidemic Size in the SIS Model of Endemic Infections. <i>Journal of Applied Probability</i> , 2008 , 45, 757-778	0.8	13
96	Confluent and nonconfluent phases in a model of cell tissue. <i>Physical Review E</i> , 2018 , 98,	2.4	13
95	Maximal dendrite size in monolayer systems. <i>Physical Review Letters</i> , 1991 , 67, 3121-3123	7.4	12
94	Emergence of structured communities through evolutionary dynamics. <i>Journal of Theoretical Biology</i> , 2015 , 383, 138-44	2.3	11
93	Biological Networks Regulating Cell Fate Choice Are Minimally Frustrated. <i>Physical Review Letters</i> , 2020 , 125, 088101	7.4	11
92	Mass dependence of instabilities of an oscillator with multiplicative and additive noise. <i>Physical Review E</i> , 2013 , 87, 022137	2.4	10
91	How input fluctuations reshape the dynamics of a biological switching system. <i>Physical Review E</i> , 2012 , 86, 061910	2.4	10
90	You name it--memory and delay govern first name dynamics. <i>PLoS ONE</i> , 2012 , 7, e38790	3.7	10
89	Noise effects in nonlinear biochemical signaling. <i>Physical Review E</i> , 2012 , 85, 011901	2.4	10
88	Singularities in speckled speckle. <i>Optics Letters</i> , 2008 , 33, 479-81	3	10
87	Linear stability of directional solidification cells. <i>Physical Review A</i> , 1990 , 41, 3197-3205	2.6	10
86	Simulation of spatial systems with demographic noise. <i>Physical Review E</i> , 2018 , 98, 022131	2.4	10
85	Spectral dimension controlling the decay of the quantum first-detection probability. <i>Physical Review A</i> , 2018 , 97,	2.6	10
84	Infinite ergodic theory meets Boltzmann statistics. <i>Chaos, Solitons and Fractals</i> , 2020 , 138, 109890	9.3	9
83	Asymptotic densities from the modified Montroll-Weiss equation for coupled CTRWs. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	9
82	Propagating mode-I fracture in amorphous materials using the continuous random network model. <i>Physical Review E</i> , 2011 , 84, 026102	2.4	9
81	Spirals in excitable media. II: Meandering transition in the diffusive free-boundary limit. <i>Physica D: Nonlinear Phenomena</i> , 1997 , 105, 207-225	3.3	9

80	Novel exponents control the quasi-deterministic limit of the extinction transition. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 292003	2	8
79	Crack-microcrack interactions in dynamical fracture. <i>Physical Review E</i> , 2004 , 70, 046107	2.4	8
78	Distribution functions for filaments under tension. <i>Journal of Chemical Physics</i> , 2004 , 121, 1155-64	3.9	8
77	Level-crossing densities in random wave fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1998 , 15, 1608	1.8	8
76	Interaction of spiral waves with external fields in excitable media. <i>Physical Review E</i> , 1995 , 52, 5974-5978	2.4	8
75	The geometrical model of dendritic growth: The small velocity limit. <i>Physica D: Nonlinear Phenomena</i> , 1986 , 21, 371-380	3.3	8
74	Nonlinear self-adapting wave patterns. <i>New Journal of Physics</i> , 2016 , 18, 122001	2.9	8
73	Communities as cliques. <i>Scientific Reports</i> , 2016 , 6, 35648	4.9	8
72	The Distribution of the Area Under a Bessel Excursion and its Moments. <i>Journal of Statistical Physics</i> , 2014 , 156, 686-706	1.5	7
71	Viscous selection of an elliptical dipole. <i>Journal of Fluid Mechanics</i> , 2010 , 658, 492-508	3.7	7
70	Epidemic Size in the SIS Model of Endemic Infections. <i>Journal of Applied Probability</i> , 2008 , 45, 757-778	0.8	7
69	Analytic approach to the evolutionary effects of genetic exchange. <i>Physical Review E</i> , 2006 , 73, 016113	2.4	7
68	Analytical study of the effect of recombination on evolution via DNA shuffling. <i>Physical Review E</i> , 2004 , 69, 051911	2.4	7
67	Spiral selection as a free boundary problem. <i>Physica D: Nonlinear Phenomena</i> , 1991 , 49, 90-97	3.3	7
66	TIP INSTABILITY DURING CONFINED DIFFUSION-LIMITED GROWTH. <i>Modern Physics Letters B</i> , 1988 , 02, 945-951	1.6	7
65	Uncertainty and symmetry bounds for the quantum total detection probability. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
64	Alternative steady states in ecological networks. <i>Physical Review E</i> , 2017 , 96, 012412	2.4	6
63	Globally coupled chaotic maps and demographic stochasticity. <i>Physical Review E</i> , 2010 , 81, 036111	2.4	6

62	The effect of spatial heterogeneity on the extinction transition in stochastic population dynamics. <i>New Journal of Physics</i> , 2009 , 11, 043017	2.9	6
61	Scaling theory for the quasideterministic limit of continuous bifurcations. <i>Physical Review E</i> , 2012 , 85, 051138	2.4	6
60	Short- and long-range screening of optical phase singularities and C points. <i>Optics Communications</i> , 2008 , 281, 4194-4204	2	6
59	Singularities in speckled speckle: Statistics. <i>Optics Communications</i> , 2008 , 281, 5954-5967	2	6
58	Computational approach to steady-state eutectic growth. <i>Journal of Crystal Growth</i> , 1989 , 94, 871-879	1.6	6
57	Running measurement protocol for the quantum first-detection problem. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019 , 52, 354001	2	5
56	Microbranching in mode-I fracture in a randomly perturbed lattice. <i>Physical Review E</i> , 2013 , 88, 022401	2.4	5
55	Fractional Edgeworth expansion: Corrections to the Gaussian-Lévy central-limit theorem. <i>Physical Review E</i> , 2015 , 91, 052124	2.4	5
54	The critical velocity of mode-I fracture in a non-linear lattice in the absence of viscosity. <i>Continuum Mechanics and Thermodynamics</i> , 2010 , 22, 505-514	3.5	5
53	Tilted arrays of dendrites. <i>Physical Review E</i> , 1995 , 51, R20-R23	2.4	5
52	Velocity selection for Taylor bubbles. <i>Physical Review A</i> , 1989 , 39, 5462-5465	2.6	5
51	Steady-state dendritic growth at non-zero capillarity. <i>Scripta Metallurgica</i> , 1984 , 18, 463-466		5
50	Regularized Boltzmann-Gibbs statistics for a Brownian particle in a nonconfining field. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
49	Stochastic maps, continuous approximation, and stable distribution. <i>Physical Review E</i> , 2017 , 96, 042139	2.4	4
48	Equation-free dynamic renormalization of a Kardar-Parisi-Zhang-type equation. <i>Physical Review E</i> , 2006 , 73, 036703	2.4	4
47	Fluctuation-induced instabilities in front propagation up a comoving reaction gradient in two dimensions. <i>Physical Review E</i> , 2006 , 74, 016119	2.4	4
46	Cellular solutions for highly nonequilibrium directional solidification. <i>Physical Review A</i> , 1989 , 39, 3208-3210		4
45	Unbridled growth of spin-glass clusters. <i>Physical Review B</i> , 1990 , 41, 4778-4780	3.3	4

44	Inclusion-Exclusion Redux. <i>Electronic Communications in Probability</i> , 2002 , 7,	1	4
43	Pattern Formation Far from Equilibrium : The Free Space Dendritic Crystal 1987 , 1-11		4
42	Non-Hermitian and Zeno limit of quantum systems under rapid measurements. <i>Physical Review A</i> , 2020 , 102,	2.6	4
41	Size distribution of ring polymers. <i>Scientific Reports</i> , 2016 , 6, 27661	4.9	4
40	Environmental Stochasticity and the Speed of Evolution. <i>Journal of Statistical Physics</i> , 2018 , 172, 126-142.	5	3
39	Microbranching in mode-I fracture using large-scale simulations of amorphous and perturbed-lattice models. <i>Physical Review E</i> , 2015 , 92, 012403	2.4	3
38	Effect of spontaneous twist on DNA minicircles. <i>Biophysical Journal</i> , 2010 , 99, 2987-94	2.9	3
37	Directed percolation and the extinction transition on a diffusive substrate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 428-432	3.3	3
36	Front Propagation Dynamics with Exponentially-Distributed Hopping. <i>Journal of Statistical Physics</i> , 2006 , 122, 925-948	1.5	3
35	Link fermions and dynamically correlated paths for lattice gauge theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 126, 359-365	4.2	3
34	First-detection time of a quantum state under random probing. <i>Physical Review A</i> , 2021 , 103,	2.6	3
33	Front propagation and clustering in the stochastic nonlocal Fisher equation. <i>Physical Review E</i> , 2018 , 97, 042213	2.4	2
32	Theory of pinned fronts. <i>Physical Review E</i> , 2016 , 93, 012405	2.4	2
31	Three-dimensional to two-dimensional transition in mode-I fracture microbranching in a perturbed hexagonal close-packed lattice. <i>Physical Review E</i> , 2017 , 95, 063004	2.4	2
30	Singularity screening in generic optical fields. <i>Optics Letters</i> , 2015 , 40, 4747-50	3	2
29	Comment on "Solidification of a supercooled liquid in a narrow channel". <i>Physical Review Letters</i> , 2002 , 88, 149601	7.4	2
28	Outer Stability of Spirals in Excitable Media. <i>Europhysics Letters</i> , 1992 , 19, 553-558	1.6	2
27	Kinetic Roughening in Surface Growth. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 278, 237		2

26	A Geometrical Model for Spirals: a Possible Paradigm for Belousov-Zhabotinskii. <i>Europhysics Letters</i> , 1990 , 12, 465-470	1.6	2
25	Comment on "Phase transition in a restricted solid-on-solid surface-growth model in 2+1 dimensions". <i>Physical Review Letters</i> , 1990 , 65, 661	7.4	2
24	Simple models of interface growth. <i>Physica D: Nonlinear Phenomena</i> , 1984 , 12, 241-244	3.3	2
23	N-body dynamics and the collective field method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981 , 81, 9-11	2.3	2
22	Dark states of quantum search cause imperfect detection. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
21	Ordered Hexagonal Patterns via Notch-Delta Signaling		2
20	Quantization of the mean decay time for non-Hermitian quantum systems. <i>Physical Review A</i> , 2020 , 102,	2.6	2
19	Uncertainty Relation between Detection Probability and Energy Fluctuations. <i>Entropy</i> , 2021 , 23,	2.8	2
18	Boundary-driven anomalous spirals in oscillatory media. <i>New Journal of Physics</i> , 2017 , 19, 063026	2.9	1
17	Slicing and Dicing the Genome: A Statistical Physics Approach to Population Genetics. <i>Journal of Statistical Physics</i> , 2011 , 142, 1302-1316	1.5	1
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