

# David A Kessler

## List of Publications by Year in Descending Order

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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	Uncertainty Relation between Detection Probability and Energy Fluctuations. <i>Entropy</i> , <b>2021</b> , 23,	2.8	2
204	First-detection time of a quantum state under random probing. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	3
203	Accurately approximating extreme value statistics. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2021</b> , 54, 315205	2	1
202	Infinite ergodic theory meets Boltzmann statistics. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 138, 109890	9.3	9
201	Uncertainty and symmetry bounds for the quantum total detection probability. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	7
200	Regularized Boltzmann-Gibbs statistics for a Brownian particle in a nonconfining field. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	5
199	Dark states of quantum search cause imperfect detection. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	2
198	Saffman-Taylor fingers at intermediate noise. <i>Physical Review E</i> , <b>2020</b> , 102, 063107	2.4	
197	Non-Hermitian and Zeno limit of quantum systems under rapid measurements. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	4
196	Quantization of the mean decay time for non-Hermitian quantum systems. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	2
195	Biological Networks Regulating Cell Fate Choice Are Minimally Frustrated. <i>Physical Review Letters</i> , <b>2020</b> , 125, 088101	7.4	11
194	Running measurement protocol for the quantum first-detection problem. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2019</b> , 52, 354001	2	5
193	From Non-Normalizable Boltzmann-Gibbs Statistics to Infinite-Ergodic Theory. <i>Physical Review Letters</i> , <b>2019</b> , 122, 010601	7.4	24
192	Front propagation and clustering in the stochastic nonlocal Fisher equation. <i>Physical Review E</i> , <b>2018</b> , 97, 042213	2.4	2
191	Asymptotic densities from the modified Montroll-Weiss equation for coupled CTRWs. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	9
190	First Detected Arrival of a Quantum Walker on an Infinite Line. <i>Physical Review Letters</i> , <b>2018</b> , 120, 040502	7.4	26
189	Stability of two-species communities: Drift, environmental stochasticity, storage effect and selection. <i>Theoretical Population Biology</i> , <b>2018</b> , 119, 57-71	1.2	21

188	Environmental Stochasticity and the Speed of Evolution. <i>Journal of Statistical Physics</i> , <b>2018</b> , 172, 126-142.	2.5	3
187	Darwinian selection of host and bacteria supports emergence of Lamarckian-like adaptation of the system as a whole. <i>Biology Direct</i> , <b>2018</b> , 13, 24	7.2	17
186	Confluent and nonconfluent phases in a model of cell tissue. <i>Physical Review E</i> , <b>2018</b> , 98,	2.4	13
185	Simulation of spatial systems with demographic noise. <i>Physical Review E</i> , <b>2018</b> , 98, 022131	2.4	10
184	Spectral dimension controlling the decay of the quantum first-detection probability. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	10
183	Stochastic maps, continuous approximation, and stable distribution. <i>Physical Review E</i> , <b>2017</b> , 96, 042139.	2.4	4
182	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> , <b>2017</b> , 114, E7875-E7881	11.5	18
181	Alternative steady states in ecological networks. <i>Physical Review E</i> , <b>2017</b> , 96, 012412	2.4	6
180	Boundary-driven anomalous spirals in oscillatory media. <i>New Journal of Physics</i> , <b>2017</b> , 19, 063026	2.9	1
179	Three-dimensional to two-dimensional transition in mode-I fracture microbranching in a perturbed hexagonal close-packed lattice. <i>Physical Review E</i> , <b>2017</b> , 95, 063004	2.4	2
178	Large Fluctuations for Spatial Diffusion of Cold Atoms. <i>Physical Review Letters</i> , <b>2017</b> , 118, 260601	7.4	19
177	Heavy-tailed phase-space distributions beyond Boltzmann-Gibbs: Confined laser-cooled atoms in a nonthermal state. <i>Physical Review E</i> , <b>2016</b> , 94, 022151	2.4	13
176	Mechanical bounds to transcriptional noise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13983-13988	11.5	21
175	The effect of environmental stochasticity on species richness in neutral communities. <i>Journal of Theoretical Biology</i> , <b>2016</b> , 409, 155-164	2.3	32
174	Theory of pinned fronts. <i>Physical Review E</i> , <b>2016</b> , 93, 012405	2.4	2
173	Nonlinear self-adapting wave patterns. <i>New Journal of Physics</i> , <b>2016</b> , 18, 122001	2.9	8
172	Communities as cliques. <i>Scientific Reports</i> , <b>2016</b> , 6, 35648	4.9	8
171	Size distribution of ring polymers. <i>Scientific Reports</i> , <b>2016</b> , 6, 27661	4.9	4

170	Scaling solution in the large population limit of the general asymmetric stochastic Luria-Delbrück evolution process. <i>Journal of Statistical Physics</i> , <b>2015</b> , 158, 783-805	1.5	25
169	Emergence of structured communities through evolutionary dynamics. <i>Journal of Theoretical Biology</i> , <b>2015</b> , 383, 138-44	2.3	11
168	Generalized model of island biodiversity. <i>Physical Review E</i> , <b>2015</b> , 91, 042705	2.4	37
167	Fractional Edgeworth expansion: Corrections to the Gaussian-Lévy central-limit theorem. <i>Physical Review E</i> , <b>2015</b> , 91, 052124	2.4	5
166	Microbranching in mode-I fracture using large-scale simulations of amorphous and perturbed-lattice models. <i>Physical Review E</i> , <b>2015</b> , 92, 012403	2.4	3
165	Neutral dynamics with environmental noise: Age-size statistics and species lifetimes. <i>Physical Review E</i> , <b>2015</b> , 92, 022722	2.4	15
164	Deviations from Boltzmann-Gibbs Statistics in Confined Optical Lattices. <i>Physical Review Letters</i> , <b>2015</b> , 115, 173006	7.4	16
163	Singularity screening in generic optical fields. <i>Optics Letters</i> , <b>2015</b> , 40, 4747-50	3	2
162	Resistance to chemotherapy: patient variability and cellular heterogeneity. <i>Cancer Research</i> , <b>2014</b> , 74, 4663-70	10.1	35
161	The Distribution of the Area Under a Bessel Excursion and its Moments. <i>Journal of Statistical Physics</i> , <b>2014</b> , 156, 686-706	1.5	7
160	Temporal fluctuation scaling in populations and communities. <i>Ecology</i> , <b>2014</b> , 95, 1701-9	4.6	42
159	Transport and the First Passage Time Problem with Application to Cold Atoms in Optical Traps <b>2014</b> , 502-531		
158	Growth feedback as a basis for persistent bistability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 544-9	11.5	46
157	Neutral-like abundance distributions in the presence of selection in a continuous fitness landscape. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 345, 1-11	2.3	18
156	Model for macroevolutionary dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2460-9	11.5	21
155	Microbranching in mode-I fracture in a randomly perturbed lattice. <i>Physical Review E</i> , <b>2013</b> , 88, 022401	2.4	5
154	Mass dependence of instabilities of an oscillator with multiplicative and additive noise. <i>Physical Review E</i> , <b>2013</b> , 87, 022137	2.4	10
153	Large population solution of the stochastic Luria-Delbrück evolution model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 11682-7	11.5	38

152	Coexistence in an inhomogeneous environment. <i>PLoS ONE</i> , <b>2013</b> , 8, e62699	3.7	1
151	How input fluctuations reshape the dynamics of a biological switching system. <i>Physical Review E</i> , <b>2012</b> , 86, 061910	2.4	10
150	Superaging correlation function and ergodicity breaking for Brownian motion in logarithmic potentials. <i>Physical Review E</i> , <b>2012</b> , 85, 051124	2.4	22
149	You name it--memory and delay govern first name dynamics. <i>PLoS ONE</i> , <b>2012</b> , 7, e38790	3.7	10
148	Theory of fractional Lévy kinetics for cold atoms diffusing in optical lattices. <i>Physical Review Letters</i> , <b>2012</b> , 108, 230602	7.4	75
147	Universal dimer in a collisionally opaque medium: experimental observables and Efimov resonances. <i>Physical Review Letters</i> , <b>2012</b> , 108, 130403	7.4	23
146	Scaling theory for the quasideterministic limit of continuous bifurcations. <i>Physical Review E</i> , <b>2012</b> , 85, 051138	2.4	6
145	Noise effects in nonlinear biochemical signaling. <i>Physical Review E</i> , <b>2012</b> , 85, 011901	2.4	10
144	Fluctuations of time averages for Langevin dynamics in a binding force field. <i>Physical Review Letters</i> , <b>2011</b> , 107, 240603	7.4	32
143	The birth-death-mutation process: a new paradigm for fat tailed distributions. <i>PLoS ONE</i> , <b>2011</b> , 6, e26480	3.7	18
142	Slicing and Dicing the Genome: A Statistical Physics Approach to Population Genetics. <i>Journal of Statistical Physics</i> , <b>2011</b> , 142, 1302-1316	1.5	1
141	Solution of the Fokker-Planck Equation with a Logarithmic Potential. <i>Journal of Statistical Physics</i> , <b>2011</b> , 145, 1524-1545	1.5	32
140	Propagating mode-I fracture in amorphous materials using the continuous random network model. <i>Physical Review E</i> , <b>2011</b> , 84, 026102	2.4	9
139	Effects of input noise on a simple biochemical switch. <i>Physical Review Letters</i> , <b>2011</b> , 107, 148101	7.4	26
138	Optimal strategy for competence differentiation in bacteria. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1001108	6	26
137	Globally coupled chaotic maps and demographic stochasticity. <i>Physical Review E</i> , <b>2010</b> , 81, 036111	2.4	6
136	Transient localized patterns in noise-driven reaction-diffusion systems. <i>Physical Review Letters</i> , <b>2010</b> , 104, 158301	7.4	65
135	Effect of spontaneous twist on DNA minicircles. <i>Biophysical Journal</i> , <b>2010</b> , 99, 2987-94	2.9	3

134	Infinite covariant density for diffusion in logarithmic potentials and optical lattices. <i>Physical Review Letters</i> , <b>2010</b> , 105, 120602	7.4	81
133	Viscous selection of an elliptical dipole. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 658, 492-508	3.7	7
132	The critical velocity of mode-I fracture in a non-linear lattice in the absence of viscosity. <i>Continuum Mechanics and Thermodynamics</i> , <b>2010</b> , 22, 505-514	3.5	5
131	Directed percolation and the extinction transition on a diffusive substrate. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2010</b> , 389, 428-432	3.3	3
130	Universal features of surname distribution in a subsample of a growing population. <i>Journal of Theoretical Biology</i> , <b>2010</b> , 262, 245-56	2.3	22
129	Fluctuations and dispersal rates in population dynamics. <i>Physical Review E</i> , <b>2009</b> , 80, 041907	2.4	15
128	The effect of spatial heterogeneity on the extinction transition in stochastic population dynamics. <i>New Journal of Physics</i> , <b>2009</b> , 11, 043017	2.9	6
127	The fixation probability of rare mutators in finite asexual populations. <i>Genetics</i> , <b>2009</b> , 181, 1595-612	4	28
126	Singularities in speckled speckle. <i>Optics Letters</i> , <b>2008</b> , 33, 479-81	3	10
125	Singularities in speckled speckle: screening. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2008</b> , 25, 2932-8	1.8	1
124	Experimental measurements of topological singularity screening in random paraxial scalar and vector optical fields. <i>Physical Review Letters</i> , <b>2008</b> , 100, 103901	7.4	19
123	Transition Phenomena Induced by Internal Noise and Quasi-Absorbing State. <i>Journal of the Physical Society of Japan</i> , <b>2008</b> , 77, 044002	1.5	29
122	Epidemic Size in the SIS Model of Endemic Infections. <i>Journal of Applied Probability</i> , <b>2008</b> , 45, 757-778	0.8	7
121	Novel exponents control the quasi-deterministic limit of the extinction transition. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2008</b> , 41, 292003	2	8
120	Short- and long-range screening of optical phase singularities and C points. <i>Optics Communications</i> , <b>2008</b> , 281, 4194-4204	2	6
119	Singularities in speckled speckle: Statistics. <i>Optics Communications</i> , <b>2008</b> , 281, 5954-5967	2	6
118	Epidemic Size in the SIS Model of Endemic Infections. <i>Journal of Applied Probability</i> , <b>2008</b> , 45, 757-778	0.8	13
117	Extinction Rates for Fluctuation-Induced Metastabilities: A Real-Space WKB Approach. <i>Journal of Statistical Physics</i> , <b>2007</b> , 127, 861-886	1.5	91

116	Solution of an infection model near threshold. <i>Physical Review E</i> , <b>2007</b> , 76, 010901	2.4	23
115	Equation-free dynamic renormalization of a Kardar-Parisi-Zhang-type equation. <i>Physical Review E</i> , <b>2006</b> , 73, 036703	2.4	4
114	Fluctuation-induced instabilities in front propagation up a comoving reaction gradient in two dimensions. <i>Physical Review E</i> , <b>2006</b> , 74, 016119	2.4	4
113	Analytic approach to the evolutionary effects of genetic exchange. <i>Physical Review E</i> , <b>2006</b> , 73, 016113	2.4	7
112	Directional sensing in eukaryotic chemotaxis: a balanced inactivation model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 9761-6	11.5	128
111	Front Propagation Dynamics with Exponentially-Distributed Hopping. <i>Journal of Statistical Physics</i> , <b>2006</b> , 122, 925-948	1.5	3
110	Equilibrium state of molecular breeding. <i>Journal of Mathematical Biology</i> , <b>2005</b> , 51, 281-301	2	
109	Fluctuation-regularized front propagation dynamics in reaction-diffusion systems. <i>Physical Review Letters</i> , <b>2005</b> , 94, 158302	7.4	15
108	Recombination dramatically speeds up evolution of finite populations. <i>Physical Review Letters</i> , <b>2005</b> , 94, 098102	7.4	62
107	Front propagation up a reaction rate gradient. <i>Physical Review E</i> , <b>2005</b> , 72, 066126	2.4	24
106	Crack-microcrack interactions in dynamical fracture. <i>Physical Review E</i> , <b>2004</b> , 70, 046107	2.4	8
105	Distribution functions for filaments under tension. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 1155-64	3.9	8
104	Analytical study of the effect of recombination on evolution via DNA shuffling. <i>Physical Review E</i> , <b>2004</b> , 69, 051911	2.4	7
103	Does the continuum theory of dynamic fracture work?. <i>Physical Review E</i> , <b>2003</b> , 68, 036118	2.4	15
102	Lissajous singularities. <i>Optics Letters</i> , <b>2003</b> , 28, 111-3	3	33
101	Stretching instability of helical springs. <i>Physical Review Letters</i> , <b>2003</b> , 90, 024301	7.4	44
100	Effect of curvature and twist on the conformations of a fluctuating ribbon. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 897-904	3.9	13
99	Steady-state mode I cracks in a viscoelastic triangular lattice. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2002</b> , 50, 583-613	5	21

98	Comment on "Solidification of a supercooled liquid in a narrow channel". <i>Physical Review Letters</i> , <b>2002</b> , 88, 149601	7.4	2
97	Mode-I fracture in a nonlinear lattice with viscoelastic forces. <i>Physical Review E</i> , <b>2002</b> , 66, 016126	2.4	20
96	Frenet algorithm for simulations of fluctuating continuous elastic filaments. <i>Physical Review E</i> , <b>2002</b> , 65, 020801	2.4	13
95	Mechanisms of cooperativity underlying sequence-independent sheet formation. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 4353-4365	3.9	30
94	Inclusion-Exclusion Redux. <i>Electronic Communications in Probability</i> , <b>2002</b> , 7,	1	4
93	Critical point trajectory bundles in singular wave fields. <i>Optics Communications</i> , <b>2001</b> , 187, 71-90	2	32
92	Microscopic selection of fluid fingering patterns. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4532-5	7.4	13
91	Nonlinear lattice model of viscoelastic mode III fracture. <i>Physical Review E</i> , <b>2001</b> , 63, 016118	2.4	17
90	Phase-field model of mode III dynamic fracture. <i>Physical Review Letters</i> , <b>2001</b> , 87, 045501	7.4	391
89	Two state behavior in a solvable model of beta-hairpin folding. <i>Physical Review Letters</i> , <b>2000</b> , 84, 3490-3	7.4	13
88	Steady-state cracks in viscoelastic lattice models. II. <i>Physical Review E</i> , <b>2000</b> , 61, 2348-2360	2.4	18
87	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> , <b>2000</b> , 97, 10775-9	11.5	16
86	Steady-state cracks in viscoelastic lattice models. <i>Physical Review E</i> , <b>1999</b> , 59, 5154-64	2.4	27
85	Arrested cracks in nonlinear lattice models of brittle fracture. <i>Physical Review E</i> , <b>1999</b> , 60, 7569-71	2.4	13
84	Evolution on a Smooth Landscape: The Role of Bias. <i>Journal of Statistical Physics</i> , <b>1998</b> , 90, 191-210	1.5	17
83	Fluctuation-induced diffusive instabilities. <i>Nature</i> , <b>1998</b> , 394, 556-558	50.4	98
82	Distributions of triplets in genetic sequences. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1998</b> , 252, 48-60	3.3	
81	Wrinkling of stable fronts in viscous flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1998</b> , 249, 96-102	3.3	

80	Level-crossing densities in random wave fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>1998</b> , 15, 1608	1.8	8
79	Front propagation: Precursors, cutoffs, and structural stability. <i>Physical Review E</i> , <b>1998</b> , 58, 107-114	2.4	105
78	Mutator Dynamics on a Smooth Evolutionary Landscape. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2012-2015	7.4	29
77	Universal Gaussian falloff in soliton tails. <i>Physical Review E</i> , <b>1998</b> , 58, 7924-7927	2.4	1
76	Transparent diffusion-limited aggregation in one dimension. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1998</b> , 77, 1313-1321		1
75	Diffusive boundary layers in the free-surface excitable medium spiral. <i>Physical Review E</i> , <b>1997</b> , 55, R3847-R3850	2.4	13
74	Evolution on a smooth landscape. <i>Journal of Statistical Physics</i> , <b>1997</b> , 87, 519-544	1.5	57
73	Spirals in excitable media. II: Meandering transition in the diffusive free-boundary limit. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 105, 207-225	3.3	9
72	Computational modeling of mound development in Dictyostelium. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 106, 375-388	3.3	19
71	Spirals in excitable media: the free-boundary limit with diffusion. <i>Physica D: Nonlinear Phenomena</i> , <b>1996</b> , 97, 509-516	3.3	13
70	Phase autocorrelation of random wave fields. <i>Optics Communications</i> , <b>1996</b> , 124, 321-332	2	17
69	Meandering instability of a spiral interface in the free boundary limit. <i>Physical Review E</i> , <b>1996</b> , 54, 6065-6069	2.4	13
68	RNA virus evolution via a fitness-space model. <i>Physical Review Letters</i> , <b>1996</b> , 76, 4440-4443	7.4	201
67	Coexistence of symmetric and parity-broken dendrites in a channel. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1995</b> , 213, 451-464	3.3	29
66	Interaction of spiral waves with external fields in excitable media. <i>Physical Review E</i> , <b>1995</b> , 52, 5974-5978	2.4	8
65	Tilted arrays of dendrites. <i>Physical Review E</i> , <b>1995</b> , 51, R20-R23	2.4	5
64	Drift of spiral waves in excitable media. <i>Physica D: Nonlinear Phenomena</i> , <b>1995</b> , 85, 142-155	3.3	21
63	Boundary-induced drift of spirals in excitable media. <i>Physical Review E</i> , <b>1994</b> , 50, 2395-2398	2.4	20

62	Theory of the spiral core in excitable media. <i>Physica D: Nonlinear Phenomena</i> , <b>1994</b> , 70, 115-139	3.3	22
61	Pattern formation in Dictyostelium via the dynamics of cooperative biological entities. <i>Physical Review E</i> , <b>1993</b> , 48, 4801-4804	2.4	103
60	Interaction between a drifting spiral and defects. <i>Physical Review E</i> , <b>1993</b> , 47, R800-R803	2.4	43
59	MBE Growth and Surface Diffusion. <i>NATO ASI Series Series B: Physics</i> , <b>1993</b> , 57-63		
58	Outer Stability of Spirals in Excitable Media. <i>Europhysics Letters</i> , <b>1992</b> , 19, 553-558	1.6	2
57	Spiral core in singly diffusive excitable media. <i>Physical Review Letters</i> , <b>1992</b> , 68, 401-404	7.4	29
56	Spiral-core meandering in excitable media. <i>Physical Review A</i> , <b>1992</b> , 46, 5264-5267	2.6	14
55	Kinetic Roughening in Surface Growth. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 278, 237		2
54	Molecular-beam epitaxial growth and surface diffusion. <i>Physical Review Letters</i> , <b>1992</b> , 69, 100-103	7.4	86
53	Spiral selection as a free boundary problem. <i>Physica D: Nonlinear Phenomena</i> , <b>1991</b> , 49, 90-97	3.3	7
52	Interface fluctuations in random media. <i>Physical Review A</i> , <b>1991</b> , 43, 4551-4554	2.6	103
51	Maximal dendrite size in monolayer systems. <i>Physical Review Letters</i> , <b>1991</b> , 67, 3121-3123	7.4	12
50	Selection of the Viscous Finger in the 90° Geometry. <i>Europhysics Letters</i> , <b>1990</b> , 13, 161-166	1.6	23
49	A Geometrical Model for Spirals: a Possible Paradigm for Belousov-Zhabotinskii. <i>Europhysics Letters</i> , <b>1990</b> , 12, 465-470	1.6	2
48	Stability of traveling waves in the Belousov-Zhabotinskii reaction. <i>Physical Review A</i> , <b>1990</b> , 41, 5418-5430	2.6	20
47	Unbridled growth of spin-glass clusters. <i>Physical Review B</i> , <b>1990</b> , 41, 4778-4780	3.3	4
46	Roughening phase transition in surface growth. <i>Physical Review Letters</i> , <b>1990</b> , 64, 926-929	7.4	90
45	Comment on "Phase transition in a restricted solid-on-solid surface-growth model in 2+1 dimensions". <i>Physical Review Letters</i> , <b>1990</b> , 65, 661	7.4	2

44	Coupled-map lattice model for crystal growth. <i>Physical Review A</i> , <b>1990</b> , 42, 6125-6128	2.6	20
43	Linear stability of directional solidification cells. <i>Physical Review A</i> , <b>1990</b> , 41, 3197-3205	2.6	10
42	Stability of Travelling Waves in the Belousov-Zhabotinskii Reaction. <i>NATO ASI Series Series B: Physics</i> , <b>1990</b> , 299-311		
41	Cellular solutions for highly nonequilibrium directional solidification. <i>Physical Review A</i> , <b>1989</b> , 39, 3208-3210	2.6	4
40	Steady-state cellular growth during directional solidification. <i>Physical Review A</i> , <b>1989</b> , 39, 3041-3052	2.6	60
39	Velocity selection for Taylor bubbles. <i>Physical Review A</i> , <b>1989</b> , 39, 5462-5465	2.6	5
38	Effect of diffusion on patterns in excitable Belousov-Zhabotinskii systems. <i>Physica D: Nonlinear Phenomena</i> , <b>1989</b> , 39, 1-14	3.3	23
37	Computational approach to steady-state eutectic growth. <i>Journal of Crystal Growth</i> , <b>1989</b> , 94, 871-879	1.6	6
36	Pattern selection in three dimensional dendritic growth. <i>Acta Metallurgica</i> , <b>1988</b> , 36, 2693-2706		75
35	Pattern selection in fingered growth phenomena. <i>Advances in Physics</i> , <b>1988</b> , 37, 255-339	18.4	831
34	TIP INSTABILITY DURING CONFINED DIFFUSION-LIMITED GROWTH. <i>Modern Physics Letters B</i> , <b>1988</b> , 02, 945-951	1.6	7
33	Towards a Theory of Interfacial Pattern Formation <b>1988</b> , 83-93		
32	Determining the Wavelength of Dendritic Sidebranches. <i>Europhysics Letters</i> , <b>1987</b> , 4, 215-221	1.6	36
31	Stability of the dense radial morphology in diffusive pattern formation. <i>Physical Review Letters</i> , <b>1987</b> , 59, 2315-2318	7.4	101
30	Growth velocity of three-dimensional dendritic crystals. <i>Physical Review A</i> , <b>1987</b> , 36, 4123-4126	2.6	40
29	Discrete set selection of Saffman-Taylor fingers. <i>Physics of Fluids</i> , <b>1987</b> , 30, 1246		17
28	Pattern Formation Far from Equilibrium : The Free Space Dendritic Crystal <b>1987</b> , 1-11		4
27	The geometrical model of dendritic growth: The small velocity limit. <i>Physica D: Nonlinear Phenomena</i> , <b>1986</b> , 21, 371-380	3.3	8

26	Velocity selection in dendritic growth. <i>Physical Review B</i> , <b>1986</b> , 33, 7867-7870	3.3	77
25	Steady-state dendritic crystal growth. <i>Physical Review A</i> , <b>1986</b> , 33, 3352-3357	2.6	111
24	Coalescence of Saffman-Taylor fingers: A new global instability. <i>Physical Review A</i> , <b>1986</b> , 33, 3625-3627	2.6	22
23	Dendritic growth in a channel. <i>Physical Review A</i> , <b>1986</b> , 34, 4980-4987	2.6	77
22	Theory of the Saffman-Taylor "finger" pattern. I. <i>Physical Review A</i> , <b>1986</b> , 33, 2621-2633	2.6	61
21	Stability of dendritic crystals. <i>Physical Review Letters</i> , <b>1986</b> , 57, 3069-3072	7.4	145
20	Theory of the Saffman-Taylor "finger" pattern. II. <i>Physical Review A</i> , <b>1986</b> , 33, 2634-2639	2.6	48
19	Infinite N (?) <sup>33</sup> on the lattice. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1985</b> , 157, 416-420	4.2	14
18	Stability of finger patterns in Hele-Shaw cells. <i>Physical Review A</i> , <b>1985</b> , 32, 1930-1933	2.6	54
17	Geometrical models of interface evolution. III. Theory of dendritic growth. <i>Physical Review A</i> , <b>1985</b> , 31, 1712-1717	2.6	105
16	A study of ( $\emptyset$ ) <sup>33</sup> at N = $\infty$ <i>Nuclear Physics B</i> , <b>1985</b> , 257, 695-728	2.8	30
15	Geometrical models of interface evolution. II. Numerical simulation. <i>Physical Review A</i> , <b>1984</b> , 30, 3161-3174	2.6	122
14	Bardeen-Moshe-Bander Fixed Point and the Ultraviolet Triviality of ( $\emptyset$ ) <sup>33</sup> . <i>Physical Review Letters</i> , <b>1984</b> , 53, 2071-2074	7.4	32
13	Numerical simulation of two-dimensional snowflake growth. <i>Physical Review A</i> , <b>1984</b> , 30, 2820-2823	2.6	77
12	Simple models of interface growth. <i>Physica D: Nonlinear Phenomena</i> , <b>1984</b> , 12, 241-244	3.3	2
11	Geometrical models of interface evolution. <i>Physical Review A</i> , <b>1984</b> , 29, 1335-1342	2.6	223
10	Steady-state dendritic growth at non-zero capillarity. <i>Scripta Metallurgica</i> , <b>1984</b> , 18, 463-466		5
9	Geometrical Approach to Moving-Interface Dynamics. <i>Physical Review Letters</i> , <b>1983</b> , 51, 1111-1114	7.4	178

8	Link fermions and dynamically correlated paths for lattice gauge theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1983</b> , 126, 359-365	4.2	3
7	Onset of asymptotically free scaling. <i>Physical Review D</i> , <b>1982</b> , 26, 959-962	4.9	1
6	SU(2) adjoint Higgs model. <i>Physical Review D</i> , <b>1982</b> , 25, 3319-3324	4.9	21
5	Dynamics of SU(2) lattice gauge theories. <i>Nuclear Physics B</i> , <b>1982</b> , 205, 77-106	2.8	35
4	Classical behavior of large N fermionic systems. <i>Annals of Physics</i> , <b>1981</b> , 133, 13-27	2.5	1
3	N-body dynamics and the collective field method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1981</b> , 81, 9-11	2.3	2
2	Monopole Condensation and the Lattice-Quantum-Chromodynamics Crossover. <i>Physical Review Letters</i> , <b>1981</b> , 47, 621-624	7.4	54
1	Ordered Hexagonal Patterns via Notch-Delta Signaling		2