

Gavin E Crooks

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.

40 papers	12,692 citations	27 h-index	41 g-index
41 ext. papers	15,202 ext. citations	4.7 avg, IF	6.74 L-index

#	Paper	IF	Citations
40	Marginal and conditional second laws of thermodynamics. <i>Europhysics Letters</i> , 2019 , 125, 40005	1.6	6
39	Quantifying Configuration-Sampling Error in Langevin Simulations of Complex Molecular Systems. <i>Entropy</i> , 2018 , 20,	2.8	17
38	Geometric approach to optimal nonequilibrium control: Minimizing dissipation in nanomagnetic spin systems. <i>Physical Review E</i> , 2017 , 95, 012148	2.4	30
37	Near-optimal protocols in complex nonequilibrium transformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10263-8	11.5	21
36	Thermodynamic geometry of minimum-dissipation driven barrier crossing. <i>Physical Review E</i> , 2016 , 94, 052106	2.4	27
35	Optimal control in nonequilibrium systems: Dynamic Riemannian geometry of the Ising model. <i>Physical Review E</i> , 2015 , 92, 060102	2.4	30
34	Scaling laws governing stochastic growth and division of single bacterial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15912-7	11.5	132
33	Time step rescaling recovers continuous-time dynamical properties for discrete-time Langevin integration of nonequilibrium systems. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6466-74	3.4	40
32	Universality in stochastic exponential growth. <i>Physical Review Letters</i> , 2014 , 113, 028101	7.4	37
31	Using Nonequilibrium Fluctuation Theorems to Understand and Correct Errors in Equilibrium and Nonequilibrium Simulations of Discrete Langevin Dynamics. <i>Physical Review X</i> , 2013 , 3,	9.1	38
30	Thermodynamics of prediction. <i>Physical Review Letters</i> , 2012 , 109, 120604	7.4	129
29	Near-equilibrium measurements of nonequilibrium free energy. <i>Physical Review Letters</i> , 2012 , 108, 150601	7.4	40
28	Thermodynamic metrics and optimal paths. <i>Physical Review Letters</i> , 2012 , 108, 190602	7.4	158
27	Geometry of thermodynamic control. <i>Physical Review E</i> , 2012 , 86, 041148	2.4	63
26	On thermodynamic and microscopic reversibility. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P07008	1.9	14
25	Nonequilibrium candidate Monte Carlo is an efficient tool for equilibrium simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E1009-18	11.5	66
24	Measures of trajectory ensemble disparity in nonequilibrium statistical dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P06003	1.9	16

23	Far-from-equilibrium measurements of thermodynamic length. <i>Physical Review E</i> , 2009 , 79, 012104	2.4	34
22	On the Jarzynski relation for dissipative quantum dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008 , 2008, P10023	1.9	65
21	Bayesian estimates of free energies from nonequilibrium work data in the presence of instrument noise. <i>Journal of Chemical Physics</i> , 2008 , 129, 024102	3.9	48
20	Length of time's arrow. <i>Physical Review Letters</i> , 2008 , 101, 090602	7.4	79
19	Quantum operation time reversal. <i>Physical Review A</i> , 2008 , 77,	2.6	70
18	Beyond Boltzmann-Gibbs statistics: maximum entropy hyperensembles out of equilibrium. <i>Physical Review E</i> , 2007 , 75, 041119	2.4	51
17	Work distribution for the adiabatic compression of a dilute and interacting classical gas. <i>Physical Review E</i> , 2007 , 75, 021116	2.4	60
16	Measuring thermodynamic length. <i>Physical Review Letters</i> , 2007 , 99, 100602	7.4	194
15	Pairwise alignment incorporating dipeptide covariation. <i>Bioinformatics</i> , 2005 , 21, 3704-10	7.2	13
14	A generalized affine gap model significantly improves protein sequence alignment accuracy. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 58, 329-38	4.2	22
13	An alternative model of amino acid replacement. <i>Bioinformatics</i> , 2005 , 21, 975-80	7.2	16
12	Measurements of protein sequence-structure correlations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 57, 804-10	4.2	32
11	Protein secondary structure: entropy, correlations and prediction. <i>Bioinformatics</i> , 2004 , 20, 1603-11	7.2	62
10	WebLogo: a sequence logo generator. <i>Genome Research</i> , 2004 , 14, 1188-90	9.7	7896
9	Path-ensemble averages in systems driven far from equilibrium. <i>Physical Review E</i> , 2000 , 61, 2361-2366	2.4	723
8	Entropy production fluctuation theorem and the nonequilibrium work relation for free energy differences. <i>Physical Review E</i> , 1999 , 60, 2721-6	2.4	1603
7	Nonequilibrium Measurements of Free Energy Differences for Microscopically Reversible Markovian Systems. <i>Journal of Statistical Physics</i> , 1998 , 90, 1481-1487	1.5	730
6	Gaussian statistics of the hard-sphere fluid. <i>Physical Review E</i> , 1997 , 56, 4217-4221	2.4	43

5	Lipases in Water-in-Oil Microemulsions, Organogels and Winsor II Systems: Aspects of Reactivity and Separation Science 1996 , 577-595		4
4	Comparison of hydrolysis and esterification behavior of Humicola lanuginosa and Rhizomucor miehei lipases in AOT-stabilized water-in-oil microemulsions: I. Effect of pH and water content on reaction kinetics. <i>Biotechnology and Bioengineering</i> , 1995 , 48, 78-88	4.9	49
3	Comparison of hydrolysis and esterification behavior of Humicola lanuginosa and Rhizomucor miehei lipases in AOT-stabilized water-in-oil microemulsions: II. Effect of temperature on reaction kinetics and general considerations of stability and productivity. <i>Biotechnology and Bioengineering</i> , 1995 , 48, 190-6	4.9	23
2	Two-Qubit Circuit Depth and the Monodromy Polytope. <i>Quantum - the Open Journal for Quantum Science</i> , 4, 247		9
1	Quantifying configuration-sampling error in Langevin simulations of complex molecular systems		1