

R M L Evans

List of Publications by Year in descending order

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54
papers

1,509
citations

331670

21
h-index

315739

38
g-index

54
all docs

54
docs citations

54
times ranked

1228
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of orientational order on modulated cylindrical interfaces. <i>Physical Review E</i> , 2022, 105, .	2.1	1
2	Redundancy-selection trade-off in phenotype-structured populations. <i>Journal of Theoretical Biology</i> , 2021, 531, 110884.	1.7	3
3	Ghost-patterning and non-patterning in a draining film model. <i>European Physical Journal E</i> , 2020, 43, 32.	1.6	0
4	Pay-off scarcity causes evolution of risk-aversion and extreme altruism. <i>Scientific Reports</i> , 2018, 8, 16074.	3.3	2
5	Absence of dissipation in trajectory ensembles biased by currents. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 093305.	2.3	10
6	ClassicalXYModel with Conserved Angular Momentum is an Archetypal Non-Newtonian Fluid. <i>Physical Review Letters</i> , 2015, 114, 138301.	7.8	3
7	Measuring local volume fraction, long-wavelength correlations, and fractionation in a phase-separating polydisperse fluid. <i>Journal of Chemical Physics</i> , 2014, 141, 164901.	3.0	6
8	Numerical comparison of a constrained path ensemble and a driven quasisteady state. <i>Physical Review E</i> , 2014, 89, 012132.	2.1	3
9	The effects of polydispersity and metastability on crystal growth kinetics. <i>Soft Matter</i> , 2013, 9, 3600.	2.7	8
10	Real and effective thermal equilibrium in artificial square spin ices. <i>Physical Review B</i> , 2013, 87, .	3.2	40
11	Microrheology with optical tweezers: data analysis. <i>New Journal of Physics</i> , 2012, 14, 115032.	2.9	109
12	Spinodal fractionation in a polydisperse square-well fluid. <i>Physical Review E</i> , 2012, 86, 011405.	2.1	7
13	An Addendum to "Detailed Balance has a Counterpart in Nonequilibrium Steady States" <i>Transport Theory and Statistical Physics</i> , 2011, 40, 304-309.	0.4	1
14	Optical tweezers: wideband microrheology. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044022.	2.2	65
15	Analysis of the linear viscoelasticity of polyelectrolytes by magnetic microrheometry "Pulsed creep experiments and the one particle response. <i>Journal of Rheology</i> , 2010, 54, 117-131.	2.6	25
16	Nonequilibrium statistical mechanics of shear flow: invariant quantities and current relations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P03030.	2.3	10
17	Measuring storage and loss moduli using optical tweezers: Broadband microrheology. <i>Physical Review E</i> , 2010, 81, 026308.	2.1	75
18	Statistical mechanics far from equilibrium: Prediction and test for a sheared system. <i>Physical Review E</i> , 2010, 81, 051109.	2.1	7

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19	Statistical physics of shear flow: a non-equilibrium problem. Contemporary Physics, 2010, 51, 413-427.	1.8	12
20	Direct conversion of rheological compliance measurements into storage and loss moduli. Physical Review E, 2009, 80, 012501.	2.1	147
21	The Self-Assembly, Elasticity, and Dynamics of Cardiac Thin Filaments. Biophysical Journal, 2008, 94, 2170-2178.	0.5	24
22	Properties of a nonequilibrium heat bath. Physical Review E, 2008, 77, 031117.	2.1	20
23	Invariant Quantities in Shear Flow. Physical Review Letters, 2008, 101, 240601.	7.8	29
24	Dynamics of Semiflexible Polymer Solutions in the Highly Entangled Regime. Physical Review Letters, 2008, 101, 198301.	7.8	42
25	Pattern Formation in Draining Thin Film Suspensions. Langmuir, 2007, 23, 3732-3736.	3.5	14
26	Validation of the Jarzynski relation for a system with strong thermal coupling: An isothermal ideal gas model. Physical Review E, 2006, 74, 061117.	2.1	8
27	The Internal Dynamic Modes of Charged Self-Assembled Peptide Fibrils. Langmuir, 2005, 21, 3733-3737.	3.5	35
28	Detailed balance has a counterpart in non-equilibrium steady states. Journal of Physics A, 2005, 38, 293-313.	1.6	51
29	De-mixing of polydisperse fluids: experimental test of a universal relation. Colloid and Polymer Science, 2004, 282, 766-769.	2.1	13
30	Driven steady states: rules for transition rates. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 364-372.	2.6	8
31	Rules for Transition Rates in Nonequilibrium Steady States. Physical Review Letters, 2004, 92, 150601.	7.8	83
32	Emergence of a stress transmission length-scale in transient gels. Journal of Physics Condensed Matter, 2002, 14, 2507-2529.	1.8	22
33	Correlation length by measuring empty space in simulated aggregates. Europhysics Letters, 2002, 60, 404-410.	2.0	10
34	Non-uniformities in polymer/liquid crystal mixtures. European Physical Journal E, 2002, 9, 79-87.	1.6	14
35	Non-uniformities in polymer/liquid crystal mixtures. European Physical Journal E, 2002, 9, 89-95.	1.6	4
36	Perturbative polydispersity: Phase equilibria of near-monodisperse systems. Journal of Chemical Physics, 2001, 114, 1915-1931.	3.0	38

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37	Classification of ordering kinetics in three-phase systems. <i>Physical Review E</i> , 2001, 64, 031403.	2.1	22
38	Spinodal Decompositions Driven by Orientation Fluctuations. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 367, 455-461.	0.3	0
39	Phase transition kinetics in colloid-polymer mixtures at triple coexistence: Kinetic maps from free-energy landscapes. <i>Physical Review E</i> , 2001, 64, 031402.	2.1	43
40	Diffusive growth of polydisperse hard-sphere crystals. <i>Physical Review E</i> , 2001, 64, 011404.	2.1	24
41	Orientation fluctuation-induced spinodal decompositions in polymer/liquid crystal mixtures. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	0
42	Kinetics from free-energy landscapes - how to turn phase diagrams into kinetic maps. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A269-A274.	1.8	14
43	Orientation fluctuation-induced spinodal decomposition in polymer-liquid-crystal mixtures. <i>Physical Review E</i> , 2000, 61, 2977-2986.	2.1	45
44	Fractionation of polydisperse systems: Multiphase coexistence. <i>Physical Review E</i> , 1999, 59, 3192-3195.	2.1	24
45	Colloid-Polymer Mixtures at Triple Coexistence: Kinetic Maps from Free-Energy Landscapes. <i>Physical Review Letters</i> , 1999, 83, 1239-1242.	7.8	59
46	Delayed sedimentation of transient gels in colloid-polymer mixtures: dark-field observation, rheology and dynamic light scattering studies. <i>Faraday Discussions</i> , 1999, 112, 143-154.	3.2	121
47	Diffusion and rheology in a model of glassy materials. <i>European Physical Journal B</i> , 1999, 10, 705-718.	1.5	20
48	Phase equilibria of polydisperse colloids. , 1999, , 172-176.		4
49	Universal Law of Fractionation for Slightly Polydisperse Systems. <i>Physical Review Letters</i> , 1998, 81, 1326-1329.	7.8	72
50	Role of metastable states in phase ordering dynamics. <i>Europhysics Letters</i> , 1997, 38, 595-600.	2.0	57
51	Diffusive evolution of stable and metastable phases. I. Local dynamics of interfaces. <i>Physical Review E</i> , 1997, 56, 5738-5747.	2.1	13
52	Diffusive evolution of stable and metastable phases. II. Theory of nonequilibrium behavior in colloid-polymer mixtures. <i>Physical Review E</i> , 1997, 56, 5748-5758.	2.1	20
53	Theoretical study of fluid membranes of spherical topology with internal degrees of freedom. <i>Physical Review E</i> , 1996, 53, 935-949.	2.1	10
54	Phase Diagrams for Deformable Toroidal and Spherical Surfaces with Intrinsic Orientational Order. <i>Journal De Physique II</i> , 1995, 5, 507-530.	0.9	12