

Robin Ball

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9592172/publications.pdf>

Version: 2024-02-01

31
papers

1,162
citations

516561

16
h-index

454834

30
g-index

32
all docs

32
docs citations

32
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Nonlocal Stress on the Determination of Shear Banding Flow. <i>Physical Review Letters</i> , 2000, 84, 642-645.	2.9	175
2	Stress Field in Granular Systems: Loop Forces and Potential Formulation. <i>Physical Review Letters</i> , 2002, 88, 115505.	2.9	161
3	Continuous shear thickening transitions in model concentrated colloidsâ€”The role of interparticle forces. <i>Journal of Rheology</i> , 2004, 48, 937-960.	1.3	135
4	Strain Hardening of Fractal Colloidal Gels. <i>Physical Review Letters</i> , 1999, 82, 1064-1067.	2.9	121
5	â€œContact networksâ€”in continuously shear thickening colloids. <i>Journal of Rheology</i> , 2004, 48, 961-978.	1.3	104
6	Universality in snowflake aggregation. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	74
7	The rheology and microstructure of concentrated, aggregated colloids. <i>Journal of Rheology</i> , 1999, 43, 673-700.	1.3	52
8	Fermions without Fermion Fields. <i>Physical Review Letters</i> , 2005, 95, 176407.	2.9	50
9	Scaling and Crossovers in Diffusion Limited Aggregation. <i>Physical Review Letters</i> , 1999, 83, 5523-5526.	2.9	42
10	Thermodynamic control and dynamical regimes in protein folding. <i>Journal of Chemical Physics</i> , 2002, 116, 7231-7237.	1.2	26
11	Stress distributions in flowing aggregated colloidal suspensions. <i>Journal of Chemical Physics</i> , 1999, 111, 4780-4789.	1.2	24
12	NMR Observations of Entangled Polymer Dynamics: Focus on Tagged Chain Rotational Dynamics and Confirmation from a Simulation Model. <i>Macromolecules</i> , 2014, 47, 256-268.	2.2	23
13	Theory of Diffusion Controlled Growth. <i>Physical Review Letters</i> , 2002, 89, 135503.	2.9	20
14	Topological complexity, contact order, and protein folding rates. <i>Journal of Chemical Physics</i> , 2002, 117, 8587-8591.	1.2	19
15	Off-lattice noise reduction and the ultimate scaling of diffusion-limited aggregation in two dimensions. <i>Physical Review E</i> , 2002, 66, 026109.	0.8	19
16	A structural analysis of concentrated, aggregated colloids under flow. <i>Molecular Physics</i> , 1999, 96, 1667-1675.	0.8	17
17	Why Clothes Donâ€™t Fall Apart: Tension Transmission in Staple Yarns. <i>Physical Review Letters</i> , 2018, 120, 158001.	2.9	17
18	From plasticity to a renormalization group. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 731-740.	1.6	12

#	ARTICLE	IF	CITATIONS
19	Stochastic Annealing. Physical Review Letters, 2003, 91, 030201.	2.9	10
20	A next step in disruption management: combining operations research and complexity science. Public Transport, 2022, 14, 5-26.	1.7	9
21	Critical dynamical exponent of the two-dimensional scalar ϕ^4 model with local moves. Physical Review E, 2018, 98, .	0.8	6
22	Optimal Sampling for Simulated Annealing Under Noise. INFORMS Journal on Computing, 2018, 30, 200-215.	1.0	6
23	Generalized Langevin equation formulation for anomalous diffusion in the Ising model at the critical temperature. Physical Review E, 2018, 98, 012124.	0.8	6
24	Diffusion-controlled growth: Theory and closure approximations. Physical Review E, 2003, 67, 021401.	0.8	5
25	Influence of thermal fluctuations on active diffusion at large Péclet numbers. Physics of Fluids, 2021, 33, .	1.6	5
26	Angular Structure of Lacunarity, and the Renormalization Group. Physical Review Letters, 2000, 85, 5134-5137.	2.9	3
27	Protein design depends on the size of the amino acid alphabet. Physical Review E, 2002, 66, 031902.	0.8	3
28	Complex Interactions with the Surroundings Dictate a Tagged Chain's Dynamics in Unentangled Polymer Melts. Macromolecules, 2015, 48, 1442-1453.	2.2	3
29	Wavelet Monte Carlo dynamics: A new algorithm for simulating the hydrodynamics of interacting Brownian particles. Journal of Chemical Physics, 2017, 146, 124111.	1.2	3
30	Shear thickening in colloidal dispersions. , 1999, , .		2
31	Flow regimes of a fluid driven granular suspension. Granular Matter, 2012, 14, 175-178.	1.1	0