

# Robin Ball

## List of Publications by Year in descending order

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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	A next step in disruption management: combining operations research and complexity science. Public Transport, 2022, 14, 5-26.	1.7	9
2	Influence of thermal fluctuations on active diffusion at large Péclet numbers. Physics of Fluids, 2021, 33, .	1.6	5
3	Why Clothes Don't Fall Apart: Tension Transmission in Staple Yarns. Physical Review Letters, 2018, 120, 158001.	2.9	17
4	Optimal Sampling for Simulated Annealing Under Noise. INFORMS Journal on Computing, 2018, 30, 200-215.	1.0	6
5	Critical dynamical exponent of the two-dimensional scalar $\phi^4$ model with local moves. Physical Review E, 2018, 98, .	0.8	6
6	Generalized Langevin equation formulation for anomalous diffusion in the Ising model at the critical temperature. Physical Review E, 2018, 98, 012124.	0.8	6
7	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
8	Complex Interactions with the Surroundings Dictate a Tagged Chain's Dynamics in Unentangled Polymer Melts. Macromolecules, 2015, 48, 1442-1453.	2.2	3
9	NMR Observations of Entangled Polymer Dynamics: Focus on Tagged Chain Rotational Dynamics and Confirmation from a Simulation Model. Macromolecules, 2014, 47, 256-268.	2.2	23
10	Flow regimes of a fluid driven granular suspension. Granular Matter, 2012, 14, 175-178.	1.1	0
11	Fermions without Fermion Fields. Physical Review Letters, 2005, 95, 176407.	2.9	50
12	Universality in snowflake aggregation. Geophysical Research Letters, 2004, 31, .	1.5	74
13	Continuous shear thickening transitions in model concentrated colloids: The role of interparticle forces. Journal of Rheology, 2004, 48, 937-960.	1.3	135
14	Contact networks in continuously shear thickening colloids. Journal of Rheology, 2004, 48, 961-978.	1.3	104
15	Stochastic Annealing. Physical Review Letters, 2003, 91, 030201.	2.9	10
16	Diffusion-controlled growth: Theory and closure approximations. Physical Review E, 2003, 67, 021401.	0.8	5
17	From plasticity to a renormalization group. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 731-740.	1.6	12
18	Topological complexity, contact order, and protein folding rates. Journal of Chemical Physics, 2002, 117, 8587-8591.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Theory of Diffusion Controlled Growth. Physical Review Letters, 2002, 89, 135503.	2.9	20
20	Stress Field in Granular Systems: Loop Forces and Potential Formulation. Physical Review Letters, 2002, 88, 115505.	2.9	161
21	Protein design depends on the size of the amino acid alphabet. Physical Review E, 2002, 66, 031902.	0.8	3
22	Thermodynamic control and dynamical regimes in protein folding. Journal of Chemical Physics, 2002, 116, 7231-7237.	1.2	26
23	Off-lattice noise reduction and the ultimate scaling of diffusion-limited aggregation in two dimensions. Physical Review E, 2002, 66, 026109.	0.8	19
24	Angular Structure of Lacunarity, and the Renormalization Group. Physical Review Letters, 2000, 85, 5134-5137.	2.9	3
25	Effects of Nonlocal Stress on the Determination of Shear Banding Flow. Physical Review Letters, 2000, 84, 642-645.	2.9	175
26	A structural analysis of concentrated, aggregated colloids under flow. Molecular Physics, 1999, 96, 1667-1675.	0.8	17
27	The rheology and microstructure of concentrated, aggregated colloids. Journal of Rheology, 1999, 43, 673-700.	1.3	52
28	Scaling and Crossovers in Diffusion Limited Aggregation. Physical Review Letters, 1999, 83, 5523-5526.	2.9	42
29	Strain Hardening of Fractal Colloidal Gels. Physical Review Letters, 1999, 82, 1064-1067.	2.9	121
30	Stress distributions in flowing aggregated colloidal suspensions. Journal of Chemical Physics, 1999, 111, 4780-4789.	1.2	24
31	Shear thickening in colloidal dispersions. , 1999, , .		2