Grant M Rotskoff

List of Publications by Year
in descending order

20	903	516710 16	839539 18
papers	citations	h-index	g-index

20	20	20	1331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-particle mapping of nonequilibrium nanocrystal transformations. Science, 2016, 354, 874-877.	12.6	204
2	Inferring dissipation from current fluctuations. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 184004.	2.1	113
3	Transition-Tempered Metadynamics: Robust, Convergent Metadynamics via On-the-Fly Transition Barrier Estimation. Journal of Chemical Theory and Computation, 2014, 10, 3626-3633.	5.3	70
4	Optimal control in nonequilibrium systems: Dynamic Riemannian geometry of the Ising model. Physical Review E, 2015, 92, 060102.	2.1	53
5	Geometric approach to optimal nonequilibrium control: Minimizing dissipation in nanomagnetic spin systems. Physical Review E, 2017, 95, 012148.	2.1	53
6	Structural asymmetry in a conserved signaling system that regulates division, replication, and virulence of an intracellular pathogen. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3709-18.	7.1	52
7	Efficiency and large deviations in time-asymmetric stochastic heat engines. New Journal of Physics, 2014, 16, 102003.	2.9	47
8	Robust nonequilibrium pathways to microcompartment assembly. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6341-6346.	7.1	45
9	Structural basis of a protein partner switch that regulates the general stress response of Î±-proteobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1415-23.	7.1	42
10	Molecular Simulation Workflows as Parallel Algorithms: The Execution Engine of Copernicus, a Distributed High-Performance Computing Platform. Journal of Chemical Theory and Computation, 2015, 11, 2600-2608.	5.3	40
11	Near-optimal protocols in complex nonequilibrium transformations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10263-10268.	7.1	36
12	Adaptive Monte Carlo augmented with normalizing flows. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2109420119.	7.1	35
13	Necessity of capillary modes in a minimal model of nanoscale hydrophobic solvation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2224-30.	7.1	30
14	Mapping current fluctuations of stochastic pumps to nonequilibrium steady states. Physical Review E, 2017, 95, 030101.	2.1	24
15	On the Role of Nonspherical Cavities in Short Length-Scale Density Fluctuations in Water. Journal of Physical Chemistry A, 2017, 121, 370-380.	2.5	24
16	Learning nonequilibrium control forces to characterize dynamical phase transitions. Physical Review E, 2022, 105, 024115.	2.1	18
17	Dynamical Computation of the Density of States and Bayes Factors Using Nonequilibrium Importance Sampling. Physical Review Letters, 2019, 122, 150602.	7.8	8
18	Probing the theoretical and computational limits of dissipative design. Journal of Chemical Physics, 2021, 155, 194114.	3.0	7

#	Article	IF	Citations
19	Physics-informed graph neural networks enhance scalability of variational nonequilibrium optimal control. Journal of Chemical Physics, 0, , .	3.0	2
20	Ligand-Gated Ion Channel Opening and Closing Mechanism from Molecular Simulations. Biophysical Journal, 2013, 104, 271a.	0.5	0