

Grant M Rotskoff

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6114916/publications.pdf>

Version: 2024-02-01

20
papers

903
citations

516710

16
h-index

839539

18
g-index

20
all docs

20
docs citations

20
times ranked

1331
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Learning nonequilibrium control forces to characterize dynamical phase transitions. <i>Physical Review E</i> , 2022, 105, 024115. | 2.1 | 18 |
| 2 | Adaptive Monte Carlo augmented with normalizing flows. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2109420119. | 7.1 | 35 |
| 3 | Probing the theoretical and computational limits of dissipative design. <i>Journal of Chemical Physics</i> , 2021, 155, 194114. | 3.0 | 7 |
| 4 | Dynamical Computation of the Density of States and Bayes Factors Using Nonequilibrium Importance Sampling. <i>Physical Review Letters</i> , 2019, 122, 150602. | 7.8 | 8 |
| 5 | Robust nonequilibrium pathways to microcompartment assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6341-6346. | 7.1 | 45 |
| 6 | Inferring dissipation from current fluctuations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 184004. | 2.1 | 113 |
| 7 | Mapping current fluctuations of stochastic pumps to nonequilibrium steady states. <i>Physical Review E</i> , 2017, 95, 030101. | 2.1 | 24 |
| 8 | On the Role of Nonspherical Cavities in Short Length-Scale Density Fluctuations in Water. <i>Journal of Physical Chemistry A</i> , 2017, 121, 370-380. | 2.5 | 24 |
| 9 | Geometric approach to optimal nonequilibrium control: Minimizing dissipation in nanomagnetic spin systems. <i>Physical Review E</i> , 2017, 95, 012148. | 2.1 | 53 |
| 10 | Near-optimal protocols in complex nonequilibrium transformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10263-10268. | 7.1 | 36 |
| 11 | Single-particle mapping of nonequilibrium nanocrystal transformations. <i>Science</i> , 2016, 354, 874-877. | 12.6 | 204 |
| 12 | Necessity of capillary modes in a minimal model of nanoscale hydrophobic solvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2224-30. | 7.1 | 30 |
| 13 | Optimal control in nonequilibrium systems: Dynamic Riemannian geometry of the Ising model. <i>Physical Review E</i> , 2015, 92, 060102. | 2.1 | 53 |
| 14 | Structural asymmetry in a conserved signaling system that regulates division, replication, and virulence of an intracellular pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3709-18. | 7.1 | 52 |
| 15 | Molecular Simulation Workflows as Parallel Algorithms: The Execution Engine of Copernicus, a Distributed High-Performance Computing Platform. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2600-2608. | 5.3 | 40 |
| 16 | Efficiency and large deviations in time-asymmetric stochastic heat engines. <i>New Journal of Physics</i> , 2014, 16, 102003. | 2.9 | 47 |
| 17 | Transition-Tempered Metadynamics: Robust, Convergent Metadynamics via On-the-Fly Transition Barrier Estimation. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3626-3633. | 5.3 | 70 |
| 18 | Ligand-Gated Ion Channel Opening and Closing Mechanism from Molecular Simulations. <i>Biophysical Journal</i> , 2013, 104, 271a. | 0.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Structural basis of a protein partner switch that regulates the general stress response of $\hat{\pm}$ -proteobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1415-23. | 7.1 | 42 |
| 20 | Physics-informed graph neural networks enhance scalability of variational nonequilibrium optimal control. Journal of Chemical Physics, 0, , . | 3.0 | 2 |