Vikram Jadhao

List of Publications by Year
in descending order

24	488	949033 11	843174 20
papers	citations	h-index	g-index

24	24	24	449
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SciSpot: Scientific Computing On Temporally Constrained Cloud Preemptible VMs. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	4.0	0
2	Solving Newtonâ€™s equations of motion with large timesteps using recurrent neural networks based operators. Machine Learning: Science and Technology, 2022, 3, 025002.	2.4	7
3	Multilayered Ordered Protein Arrays Self-Assembled from a Mixed Population of Virus-like Particles. ACS Nano, 2022, 16, 7662-7673.	7.3	8
4	Probing the Rheological Properties of Liquids Under Conditions of Elastohydrodynamic Lubrication Using Simulations and Machine Learning. Tribology Letters, 2021, 69, 1.	1.2	12
5	Molecular Dynamics Simulations on Cloud Computing and Machine Learning Platforms. , 2021, , .		7
6	Designing Surface Charge Patterns for Shape Control of Deformable Nanoparticles. Physical Review Letters, 2020, 125, 248001.	2.9	4
7	Machine learning surrogates for molecular dynamics simulations of soft materials. Journal of Computational Science, 2020, 42, 101107.	1.5	31
8	Machine learning for parameter auto-tuning in molecular dynamics simulations: Efficient dynamics of ions near polarizable nanoparticles. International Journal of High Performance Computing Applications, 2020, 34, 357-374.	2.4	13
9	Ionic structure and decay length in highly concentrated confined electrolytes. AIP Advances, 2020, 10, .	0.6	12
10	Integrating Machine Learning with HPC-driven Simulations for Enhanced Student Learning. , 2020, , .		4
11	Computational studies of shape control of charged deformable nanocontainers. Journal of Materials Chemistry B, 2019, 7, 6370-6382.	2.9	8
12	Learning Everywhere: Pervasive Machine Learning for Effective High-Performance Computation. , 2019, , .		28
13	Machine Learning for Performance Enhancement of Molecular Dynamics Simulations. Lecture Notes in Computer Science, 2019, , 116-130.	1.0	8
14	Rheological Properties of Liquids Under Conditions of Elastohydrodynamic Lubrication. Tribology Letters, 2019, 67, 1.	1.2	37
15	Linker-Mediated Assembly of Virus-Like Particles into Ordered Arrays via Electrostatic Control. ACS Applied Bio Materials, 2019, 2, 2192-2201.	2.3	21
16	Reply to Bair: Crossover to Arrhenius behavior at high viscosities in squalane. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8807-E8808.	3.3	3
17	Probing large viscosities in glass-formers with nonequilibrium simulations. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7952-7957.	3.3	60
18	Ionic structure in liquids confined by dielectric interfaces. Journal of Chemical Physics, 2015, 143, 194508.	1.2	50

#	Article	IF	Citations
19	Coulomb energy of uniformly charged spheroidal shell systems. Physical Review E, 2015, 91, 032305.	0.8	19
20	Electrostatics-driven shape transitions in soft shells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12673-12678.	3.3	30
21	Free-energy functionals of the electrostatic potential for Poisson-Boltzmann theory. Physical Review E, 2013, 88, 022305.	0.8	9
22	A variational formulation of electrostatics in a medium with spatially varying dielectric permittivity. Journal of Chemical Physics, 2013, 138, 054119.	1.2	39
23	Generating true minima in constrained variational formulations via modified Lagrange multipliers. Physical Review E, 2013, 88, 053306.	0.8	10
24	Simulation of Charged Systems in Heterogeneous Dielectric Media via a True Energy Functional. Physical Review Letters, 2012, 109, 223905.	2.9	68