Huan Lei

List of Publications by Year
in descending order

17 papers	679 citations	759233 12 h-index
17 all docs	17 docs citations	17 times ranked

888059 17 g-index
632 citing authors

#	Article	IF	Citations
1	Data-driven parameterization of the generalized Langevin equation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14183-14188.	7.1	103
2	Direct construction of mesoscopic models from microscopic simulations. Physical Review E, 2010, 81, 026704.	2.1	92
3	Blood flow in small tubes: quantifying the transition to the non-continuum regime. Journal of Fluid Mechanics, 2013, 722, 214-239.	3.4	76
4	Quantifying the Rheological and Hemodynamic Characteristics of Sickle Cell Anemia. Biophysical Journal, 2012, 102, 185-194.	0.5	69
5	Probing vasoocclusion phenomena in sickle cell anemia via mesoscopic simulations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11326-11330.	7.1	68
6	Probing red blood cell mechanics, rheology and dynamics with a two-component multi-scale model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130389.	3.4	68
7	Time-dependent and outflow boundary conditions for Dissipative Particle Dynamics. Journal of Computational Physics, 2011, 230, 3765-3779.	3.8	51
8	Patient-specific blood rheology in sickle-cell anaemia. Interface Focus, 2016, 6, 20150065.	3.0	47
9	Predicting the morphology of sickle red blood cells using coarse-grained models of intracellular aligned hemoglobin polymers. Soft Matter, 2012, 8, 4507.	2.7	32
10	Data-driven molecular modeling with the generalized Langevin equation. Journal of Computational Physics, 2020, 418, 109633.	3.8	21
11	Systematic parameter inference in stochastic mesoscopic modeling. Journal of Computational Physics, 2017, 330, 571-593.	3.8	18
12	Machine-learning-based non-Newtonian fluid model with molecular fidelity. Physical Review E, 2020, 102, 043309.	2.1	15
13	A data-driven framework for sparsity-enhanced surrogates with arbitrary mutually dependent randomness. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 199-227.	6.6	6
14	Neutral modes of surface temperature and the optimal ocean thermal forcing for global cooling. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	6
15	Effective Mori-Zwanzig equation for the reduced-order modeling of stochastic systems. Discrete and Continuous Dynamical Systems - Series S, 2022, 15, 959.	1.1	4
16	Petrov–Galerkin methods for the construction of non-Markovian dynamics preserving nonlocal statistics. Journal of Chemical Physics, 2021, 154, 184108.	3.0	2
17	Improving Solution Accuracy and Convergence for Stochastic Physics Parameterizations with Colored Noise. Monthly Weather Review, 2020, 148, 2251-2263.	1.4	1