

Huan Lei

List of Publications by Year in descending order

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17
papers

679
citations

759233

12
h-index

888059

17
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17
all docs

17
docs citations

17
times ranked

632
citing authors

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