Hao Wu

List of Publications by Year
in descending order

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22 papers	2,738 citations	516710 16 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	2261 citing authors

#	Article	IF	Citations
1	Markov models of molecular kinetics: Generation and validation. Journal of Chemical Physics, 2011, 134, 174105.	3.0	968
2	Boltzmann generators: Sampling equilibrium states of many-body systems with deep learning. Science, 2019, 365, .	12.6	332
3	VAMPnets for deep learning of molecular kinetics. Nature Communications, 2018, 9, 5.	12.8	330
4	Data-Driven Model Reduction and Transfer Operator Approximation. Journal of Nonlinear Science, 2018, 28, 985-1010.	2.1	192
5	Multiensemble Markov models of molecular thermodynamics and kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3221-30.	7.1	173
6	Variational Approach for Learning Markov Processes from Time Series Data. Journal of Nonlinear Science, 2020, 30, 23-66.	2.1	156
7	Estimation and uncertainty of reversible Markov models. Journal of Chemical Physics, 2015, 143, 174101.	3.0	102
8	Variational Koopman models: Slow collective variables and molecular kinetics from short off-equilibrium simulations. Journal of Chemical Physics, 2017, 146, 154104.	3.0	100
9	Combining experimental and simulation data of molecular processes via augmented Markov models. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8265-8270.	7.1	93
10	Markov state models from short non-equilibrium simulationsâ€"Analysis and correction of estimation bias. Journal of Chemical Physics, 2017, 146, .	3.0	51
11	Variational selection of features for molecular kinetics. Journal of Chemical Physics, 2019, 150, 194108.	3.0	46
12	Deeptime: a Python library for machine learning dynamical models from time series data. Machine Learning: Science and Technology, 2022, 3, 015009.	5.0	37
13	Identification of kinetic order parameters for non-equilibrium dynamics. Journal of Chemical Physics, 2019, 150, 164120.	3.0	31
14	Rapid Calculation of Molecular Kinetics Using Compressed Sensing. Journal of Chemical Theory and Computation, 2018, 14, 2771-2783.	5.3	24
15	Optimal Data-Driven Estimation of Generalized Markov State Models for Non-Equilibrium Dynamics. Computation, 2018, 6, 22.	2.0	20
16	Normalizing field flows: Solving forward and inverse stochastic differential equations using physics-informed flow models. Journal of Computational Physics, 2022, 461, 111202.	3.8	15
17	Gaussian Markov transition models of molecular kinetics. Journal of Chemical Physics, 2015, 142, 084104.	3.0	14
18	Flooding and Overflow Mitigation Using Deep Reinforcement Learning Based on Koopman Operator of Urban Drainage Systems. Water Resources Research, 2022, 58, .	4.2	13

#	Article	IF	Citations
19	Kernel Embedding Based Variational Approach for Low-Dimensional Approximation of Dynamical Systems. Computational Methods in Applied Mathematics, 2021, 21, 635-659.	0.8	7
20	Maximum margin clustering for state decomposition of metastable systems. Neurocomputing, 2015, 164, 5-22.	5.9	2
21	Îµ-Dependent controllability for two time-scale systems. Tsinghua Science and Technology, 2009, 14, 271-280.	6.1	0
22	Adaptive hypersonic flight control via back-stepping and Kriging estimation. , 2011, , .		0