Zhen-Nan Zhou

List of Publications by Year in descending order

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		933447	888059
27	314	10	17
papers	citations	h-index	g-index
77	27	77	220
27	27	21	222
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Dimeric Cycloparaphenylenes with a Rigid Aromatic Linker. Angewandte Chemie - International Edition, 2021, 60, 7649-7653.	13.8	47
2	Association of pre-treatment radiomic features with lung cancer recurrence following stereotactic body radiation therapy. Physics in Medicine and Biology, 2019, 64, 025007.	3.0	41
3	Positivity-preserving and asymptotic preserving method for 2D Keller-Segal equations. Mathematics of Computation, 2017, 87, 1165-1189.	2.1	32
4	An Exploratory Radiomics Approach to Quantifying Pulmonary Function in CT Images. Scientific Reports, 2019, 9, 11509.	3.3	30
5	Path integral molecular dynamics with surface hopping for thermal equilibrium sampling of nonadiabatic systems. Journal of Chemical Physics, 2017, 146, 154110.	3.0	18
6	An accurate front capturing scheme for tumor growth models with a free boundary limit. Journal of Computational Physics, 2018, 364, 73-94.	3.8	17
7	Second-order semi-implicit projection methods for micromagnetics simulations. Journal of Computational Physics, 2020, 404, 109104.	3.8	15
8	Frozen Gaussian approximation with surface hopping for mixed quantum-classical dynamics: A mathematical justification of fewest switches surface hopping algorithms. Mathematics of Computation, 2017, 87, 2189-2232.	2.1	12
9	Improved sampling and validation of frozen Gaussian approximation with surface hopping algorithm for nonadiabatic dynamics. Journal of Chemical Physics, 2016, 145, 124109.	3.0	11
10	Data clustering based on Langevin annealing with a self-consistent potential. Quarterly of Applied Mathematics, 2019, 77, 591-613.	0.7	11
11	A semi-Lagrangian time splitting method for the Schrödinger equation with vector potentials. Communications in Information and Systems, 2013, 13, 247-289.	0.5	11
12	Explicit and Implicit TVD Schemes for Conservation Laws with Caputo Derivatives. Journal of Scientific Computing, 2017, 72, 291-313.	2.3	10
13	A structure preserving numerical scheme for Fokker-Planck equations of neuron networks: Numerical analysis and exploration. Journal of Computational Physics, 2021, 433, 110195.	3.8	10
14	On a Schrödinger–LandauLifshitz System: Variational Structure and Numerical Methods. Multiscale Modeling and Simulation, 2016, 14, 1463-1487.	1.6	8
15	Numerical approximation of the SchrĶdinger equation with the electromagnetic field by the Hagedorn wave packets. Journal of Computational Physics, 2014, 272, 386-407.	3.8	6
16	An improved semi-Lagrangian time splitting spectral method for the semi-classical Schrödinger equation with vector potentials using NUFFT. Applied Numerical Mathematics, 2017, 111, 144-159.	2.1	6
17	Accelerated sampling by infinite swapping of path integral molecular dynamics with surface hopping. Journal of Chemical Physics, 2018, 148, 064110.	3.0	5
18	Efficient sampling of thermal averages of interacting quantum particle systems with random batches. Journal of Chemical Physics, 2021, 154, 204106.	3.0	5

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#	Article	IF	CITATIONS
19	Analysis and computation of some tumor growth models with nutrient: From cell density models to free boundary dynamics. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 3011-3035.	0.9	5
20	Rigorous Justification of the FokkerPlanck Equations of Neural Networks Based on an Iteration Perspective. SIAM Journal on Mathematical Analysis, 2022, 54, 1270-1312.	1.9	4
21	Gaussian wave packet transform based numerical scheme for the semi-classical Schrödinger equation with random inputs. Journal of Computational Physics, 2020, 401, 109015.	3.8	3
22	Toward Understanding the Boundary Propagation Speeds in Tumor Growth Models. SIAM Journal on Applied Mathematics, 2021, 81, 1052-1076.	1.8	3
23	Continuum limit and preconditioned Langevin sampling of the path integral molecular dynamics. Journal of Computational Physics, 2020, 423, 109788.	3.8	1
24	The Bayesian inversion problem for thermal average sampling of quantum systems. Journal of Computational Physics, 2020, 413, 109448.	3.8	1
25	A Unified Structure Preserving Scheme for a Multispecies Model with a Gradient Flow Structure and Nonlocal Interactions via Singular Kernels. SIAM Journal of Scientific Computing, 2021, 43, B539-B569.	2.8	1
26	A novel spectral method for the semiclassical Schrödinger equation based on the Gaussian wave-packet transform. IMA Journal of Numerical Analysis, 0, , .	2.9	1
27	Approximation of the Shannon Capacity Via Matrix Cone Programming. Journal of the Operations Research Society of China, 0, , 1.	1.4	0