

Zhongming Wang

List of Publications by Year in descending order

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12
papers

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1163117

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12
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147
citing authors

#	ARTICLE	IF	CITATIONS
1	Positivity-preserving third order DG schemes for Poisson–Nernst–Planck equations. Journal of Computational Physics, 2022, 452, 110777.	3.8	4
2	Dynamics of solutions in the generalized Benjamin-Ono equation: A numerical study. Journal of Computational Physics, 2021, 445, 110570.	3.8	8
3	Structure-preserving and efficient numerical methods for ion transport. Journal of Computational Physics, 2020, 418, 109597.	3.8	11
4	Positivity preserving finite difference methods for Poisson–Nernst–Planck equations with steric interactions: Application to slit-shaped nanopore conductance. Journal of Computational Physics, 2019, 397, 108864.	3.8	20
5	A conservative, free energy dissipating, and positivity preserving finite difference scheme for multi-dimensional nonlocal Fokker–Planck equation. Journal of Computational Physics, 2019, 386, 22-36.	3.8	9
6	Computational Study on Hysteresis of Ion Channels: Multiple Solutions to Steady-State Poisson-Nernst-Planck Equations. Communications in Computational Physics, 2018, 23, .	1.7	5
7	A modified Poisson–Nernst–Planck model with excluded volume effect: theory and numerical implementation. Communications in Mathematical Sciences, 2018, 16, 251-271.	1.0	11
8	A free energy satisfying discontinuous Galerkin method for one-dimensional Poisson–Nernst–Planck systems. Journal of Computational Physics, 2017, 328, 413-437.	3.8	31
9	An Entropy Satisfying Discontinuous Galerkin Method for Nonlinear Fokker–Planck Equations. Journal of Scientific Computing, 2016, 68, 1217-1240.	2.3	14
10	Variational Inference of Linear Regression with Nonzero Prior Means. Communications in Statistics Part B: Simulation and Computation, 2016, 45, 2241-2248.	1.2	1
11	A free energy satisfying finite difference method for Poisson–Nernst–Planck equations. Journal of Computational Physics, 2014, 268, 363-376.	3.8	45
12	Mean-field description of ionic size effects with nonuniform ionic sizes: A numerical approach. Physical Review E, 2011, 84, 021901.	2.1	87