

Yongcheng Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,125
citations

687363

13
h-index

677142

22
g-index

23
all docs

23
docs citations

23
times ranked

661
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Enriched gradient recovery for interface solutions of the Poisson-Boltzmann equation. Journal of Computational Physics, 2020, 421, 109725. | 3.8 | 1 |
| 2 | A computational model of protein induced membrane morphology with geodesic curvature driven protein-membrane interface. Journal of Computational Physics, 2020, 422, 109755. | 3.8 | 1 |
| 3 | On Curvature Driven Rotational Diffusion of Proteins on Membrane Surfaces. SIAM Journal on Applied Mathematics, 2020, 80, 359-381. | 1.8 | 2 |
| 4 | Interface solutions of partial differential equations with point singularity. Journal of Computational and Applied Mathematics, 2019, 362, 400-409. | 2.0 | 4 |
| 5 | Curvature-Driven Molecular Flow on Membrane Surface. SIAM Journal on Applied Mathematics, 2017, 77, 1587-1605. | 1.8 | 9 |
| 6 | Fast Simulation of Lipid Vesicle Deformation Using Spherical Harmonic Approximation. Communications in Computational Physics, 2017, 21, 40-64. | 1.7 | 1 |
| 7 | Variational Methods for Biomolecular Modeling. Molecular Modeling and Simulation, 2017, , 181-221. | 0.2 | 1 |
| 8 | Geodesic curvature driven surface microdomain formation. Journal of Computational Physics, 2017, 345, 260-274. | 3.8 | 8 |
| 9 | Electrostatic Forces on Charged Surfaces of Bilayer Lipid Membranes. SIAM Journal on Applied Mathematics, 2014, 74, 1-21. | 1.8 | 8 |
| 10 | Adaptive Finite Element Modeling Techniques for the Poisson-Boltzmann Equation. Communications in Computational Physics, 2012, 11, 179-214. | 1.7 | 45 |
| 11 | Electrodifusion of lipids on membrane surfaces. Journal of Chemical Physics, 2012, 136, 205103. | 3.0 | 8 |
| 12 | A matched interface and boundary method for solving multi-flow Navier-Stokes equations with applications to geodynamics. Journal of Computational Physics, 2012, 231, 223-242. | 3.8 | 23 |
| 13 | Poisson-Nernst-Planck Equations for Simulating Biomolecular Diffusion-Reaction Processes II: Size Effects on Ionic Distributions and Diffusion-Reaction Rates. Biophysical Journal, 2011, 100, 2475-2485. | 0.5 | 108 |
| 14 | Poisson-Nernst-Planck equations for simulating biomolecular diffusion-reaction processes I: Finite element solutions. Journal of Computational Physics, 2010, 229, 6979-6994. | 3.8 | 119 |
| 15 | Continuum electromechanical modeling of protein-membrane interactions. Physical Review E, 2010, 82, 041923. | 2.1 | 20 |
| 16 | Highly accurate biomolecular electrostatics in continuum dielectric environments. Journal of Computational Chemistry, 2008, 29, 87-97. | 3.3 | 98 |
| 17 | A nonlinear elasticity model of macromolecular conformational change induced by electrostatic forces. Journal of Mathematical Analysis and Applications, 2008, 340, 135-164. | 1.0 | 14 |
| 18 | Continuum Simulations of Acetylcholine Consumption by Acetylcholinesterase: A Poisson-Nernst-Planck Approach. Journal of Physical Chemistry B, 2008, 112, 270-275. | 2.6 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Matched interface and boundary (MIB) method for elliptic problems with sharp-edged interfaces. Journal of Computational Physics, 2007, 224, 729-756. | 3.8 | 143 |
| 20 | High order matched interface and boundary method for elliptic equations with discontinuous coefficients and singular sources. Journal of Computational Physics, 2006, 213, 1-30. | 3.8 | 287 |
| 21 | On the fictitious-domain and interpolation formulations of the matched interface and boundary (MIB) method. Journal of Computational Physics, 2006, 219, 228-246. | 3.8 | 107 |
| 22 | High resolution conjugate filters for the simulation of flows. Journal of Computational Physics, 2003, 189, 159-179. | 3.8 | 29 |
| 23 | Comparison of the discrete singular convolution algorithm and the Fourier pseudospectral method for solving partial differential equations. Computer Physics Communications, 2002, 143, 113-135. | 7.5 | 55 |