

Qin Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11361361/publications.pdf>

Version: 2024-02-01

18
papers

712
citations

567281

15
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

522
citing authors

#	ARTICLE	IF	CITATIONS
1	A semi-implicit augmented IIM for Navier–Stokes equations with open, traction, or free boundary conditions. <i>Journal of Computational Physics</i> , 2015, 297, 182-193.	3.8	10
2	Biological applications of classical electrostatics methods. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1440008.	1.8	16
3	A multi-scale method for dynamics simulation in continuum solvent models. I: Finite-difference algorithm for Navier–Stokes equation. <i>Chemical Physics Letters</i> , 2014, 616-617, 67-74.	2.6	11
4	Numerical Poisson–Boltzmann model for continuum membrane systems. <i>Chemical Physics Letters</i> , 2013, 555, 274-281.	2.6	26
5	Electrostatic forces in the Poisson-Boltzmann systems. <i>Journal of Chemical Physics</i> , 2013, 139, 094106.	3.0	27
6	Exploring accurate Poisson–Boltzmann methods for biomolecular simulations. <i>Computational and Theoretical Chemistry</i> , 2013, 1024, 34-44.	2.5	35
7	Poisson–Boltzmann Implicit Solvation Models. <i>Annual Reports in Computational Chemistry</i> , 2012, , 149-162.	1.7	12
8	Dielectric pressure in continuum electrostatic solvation of biomolecules. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15917.	2.8	26
9	Reducing Grid Dependence in Finite-Difference Poisson–Boltzmann Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2741-2751.	5.3	58
10	Development of Polarizable Models for Molecular Mechanical Calculations. 3. Polarizable Water Models Conforming to Thole Polarization Screening Schemes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7999-8008.	2.6	49
11	Development of Polarizable Models for Molecular Mechanical Calculations. 4. van der Waals Parametrization. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7088-7101.	2.6	60
12	Development of Polarizable Models for Molecular Mechanical Calculations II: Induced Dipole Models Significantly Improve Accuracy of Intermolecular Interaction Energies. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3100-3111.	2.6	116
13	On-the-Fly Numerical Surface Integration for Finite-Difference Poisson–Boltzmann Methods. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3608-3619.	5.3	24
14	Dielectric boundary force in numerical Poisson–Boltzmann methods: Theory and numerical strategies. <i>Chemical Physics Letters</i> , 2011, 514, 368-373.	2.6	30
15	Performance of Nonlinear Finite-Difference Poisson–Boltzmann Solvers. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 203-211.	5.3	89
16	On removal of charge singularity in Poisson–Boltzmann equation. <i>Journal of Chemical Physics</i> , 2009, 130, 145101.	3.0	47
17	Achieving energy conservation in Poisson–Boltzmann molecular dynamics: Accuracy and precision with finite-difference algorithms. <i>Chemical Physics Letters</i> , 2009, 468, 112-118.	2.6	50
18	Roles of Boundary Conditions in DNA Simulations: Analysis of Ion Distributions with the Finite-Difference Poisson-Boltzmann Method. <i>Biophysical Journal</i> , 2009, 97, 554-562.	0.5	26