

Weihua Geng

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

2,018
citations

840776

11
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

2977
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements to the <sc>APBS</sc> biomolecular solvation software suite. <i>Protein Science</i> , 2018, 27, 112-128.	7.6	1,399
2	Treatment of charge singularities in implicit solvent models. <i>Journal of Chemical Physics</i> , 2007, 127, 114106.	3.0	128
3	MIBPB: A software package for electrostatic analysis. <i>Journal of Computational Chemistry</i> , 2011, 32, 756-770.	3.3	127
4	A treecode-accelerated boundary integral Poisson-Boltzmann solver for electrostatics of solvated biomolecules. <i>Journal of Computational Physics</i> , 2013, 247, 62-78.	3.8	75
5	Treatment of geometric singularities in implicit solvent models. <i>Journal of Chemical Physics</i> , 2007, 126, 244108.	3.0	74
6	Multiscale molecular dynamics using the matched interface and boundary method. <i>Journal of Computational Physics</i> , 2011, 230, 435-457.	3.8	60
7	It is not the parts, but how they interact that determines the behaviour of circadian rhythms across scales and organisms. <i>Interface Focus</i> , 2014, 4, 20130076.	3.0	28
8	A two-component Matched Interface and Boundary (MIB) regularization for charge singularity in implicit solvation. <i>Journal of Computational Physics</i> , 2017, 351, 25-39.	3.8	24
9	A GPU-accelerated direct-sum boundary integral Poisson-Boltzmann solver. <i>Computer Physics Communications</i> , 2013, 184, 1490-1496.	7.5	19
10	Parallel higher-order boundary integral electrostatics computation on molecular surfaces with curved triangulation. <i>Journal of Computational Physics</i> , 2013, 241, 253-265.	3.8	13
11	On preconditioning the treecode-accelerated boundary integral (TABI) Poisson-Boltzmann solver. <i>Journal of Computational Physics</i> , 2018, 373, 750-762.	3.8	13
12	Regularization methods for the Poisson-Boltzmann equation: Comparison and accuracy recovery. <i>Journal of Computational Physics</i> , 2021, 426, 109958.	3.8	11
13	The shift-invariant discrete wavelet transform and application to speech waveform analysis. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 2122-2133.	1.1	10
14	Computing Protein pKas Using the TABI Poisson-Boltzmann Solver. <i>Journal of Computational Biophysics and Chemistry</i> , 2021, 20, 175-187.	1.7	9
15	MLIMC: Machine learning-based implicit-solvent Monte Carlo. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 683-694.	1.3	8
16	Fully implicit ADI schemes for solving the nonlinear Poisson-Boltzmann equation. <i>Computational and Mathematical Biophysics</i> , 2013, 1, 109-123.	1.1	7
17	A boundary integral Poisson-Boltzmann solvers package for solvated biomolecular simulations. <i>Computational and Mathematical Biophysics</i> , 2015, 3, .	1.1	6
18	Cyclically parallelized treecode for fast computations of electrostatic interactions on molecular surfaces. <i>Computer Physics Communications</i> , 2021, 260, 107742.	7.5	3

#	ARTICLE	IF	CITATIONS
19	Accurate PKa Computation Using Matched Interface and Boundary (MIB) Method Based Poisson-Boltzmann Solver. Communications in Computational Physics, 2018, 23, .	1.7	3
20	Computing electrostatic binding energy with the TABI Poisson-Boltzmann solver. Communications in Information and Systems, 2022, 22, 247-273.	0.5	1
21	Parallel Computing of the Adaptive N-Body Treecode Algorithm for Solving Boundary Integral Poisson-Boltzmann Equation. Lecture Notes in Computer Science, 2016, , 82-89.	1.3	0
22	Role of combinatorial complexity in genetic networks. Communications in Information and Systems, 2018, 18, 209-228.	0.5	0