

# Marcia O Fenley

## List of Publications by Year in descending order

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36  
papers

1,201  
citations

361413

20  
h-index

395702

33  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1032  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy Comparison of Generalized Born Models in the Calculation of Electrostatic Binding Free Energies. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1656-1670.	5.3	23
2	Numerical Difficulties Computing Electrostatic Potentials Near Interfaces with the Poisson-Boltzmann Equation. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3945-3951.	5.3	3
3	Problems of Robustness in Poisson-Boltzmann Binding Free Energies. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 705-712.	5.3	14
4	Features of CPB: A Poisson-Boltzmann solver that uses an adaptive cartesian grid. <i>Journal of Computational Chemistry</i> , 2015, 36, 235-243.	3.3	4
5	A Comprehensive Exploration of Physical and Numerical Parameters in the Poisson-Boltzmann Equation for Applications to Receptor-Ligand Binding. , 2015, , 39-71.		5
6	The Adaptive Cartesian Grid-Based Poisson-Boltzmann Solver: Energy and Surface Electrostatic Properties. , 2015, , 73-110.		3
7	Sensitivities to parameterization in the size-modified Poisson-Boltzmann equation. <i>Journal of Chemical Physics</i> , 2014, 140, 075102.	3.0	25
8	Excluded volume and ion-ion correlation effects on the ionic atmosphere around B-DNA: Theory, simulations, and experiments. <i>Journal of Chemical Physics</i> , 2014, 141, 225103.	3.0	24
9	Influence of Grid Spacing in Poisson-Boltzmann Equation Binding Energy Estimation. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3677-3685.	5.3	29
10	Numerical Optimization of a Walk-on-Spheres Solver for the Linear Poisson-Boltzmann Equation. <i>Communications in Computational Physics</i> , 2013, 13, 195-206.	1.7	12
11	A Stochastic Solver of the Generalized Born Model. <i>Computational and Mathematical Biophysics</i> , 2013, 1, 63-74.	1.1	6
12	The Ionic Atmosphere around A-RNA: Poisson-Boltzmann and Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2012, 102, 829-838.	0.5	68
13	Theoretical Assessment of the Oligolysine Model for Ionic Interactions in Protein-DNA Complexes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9864-9872.	2.6	30
14	A Fast and Robust Poisson-Boltzmann Solver Based on Adaptive Cartesian Grids. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1524-1540.	5.3	51
15	Understanding the physical basis of the salt dependence of the electrostatic binding free energy of mutated charged ligand-nucleic acid complexes. <i>Biophysical Chemistry</i> , 2011, 156, 79-87.	2.8	14
16	DNA-Drug Interactions. , 2011, , .		4
17	Revisiting the Association of Cationic Groove-Binding Drugs to DNA Using a Poisson-Boltzmann Approach. <i>Biophysical Journal</i> , 2010, 99, 879-886.	0.5	28
18	Using Correlated Monte Carlo Sampling for Efficiently Solving the Linearized Poisson-Boltzmann Equation Over a Broad Range of Salt Concentration. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 300-314.	5.3	12

#	ARTICLE	IF	CITATIONS
19	Comparing the Predictions of the Nonlinear Poisson-Boltzmann Equation and the Ion Size-Modified Poisson-Boltzmann Equation for a Low-Dielectric Charged Spherical Cavity in an Aqueous Salt Solution. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3631-3639.	5.3	35
20	Properties of the nucleic-acid bases in free and Watson-Crick hydrogen-bonded states: computational insights into the sequence-dependent features of double-helical DNA. <i>Biophysical Reviews</i> , 2009, 1, 13-20.	3.2	35
21	Efficient sampling of ion motions in molecular dynamics simulations on DNA: Variant Hamiltonian replica exchange method. <i>Chemical Physics Letters</i> , 2008, 454, 391-395.	2.6	15
22	Salt-Mediated Electrostatics in the Association of TATA Binding Proteins to DNA: A Combined Molecular Mechanics/Poisson-Boltzmann Study. <i>Biophysical Journal</i> , 2008, 94, 4634-4645.	0.5	20
23	Protein-Ion Binding Process on Finite Macromolecular Concentration. A Poisson-Boltzmann and Monte Carlo Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16766-16776.	2.6	13
24	The electrostatic characteristics of G-U wobble base pairs. <i>Nucleic Acids Research</i> , 2007, 35, 3836-3847.	14.5	38
25	Monte Carlo-based linear Poisson-Boltzmann approach makes accurate salt-dependent solvation free energy predictions possible. <i>Journal of Chemical Physics</i> , 2007, 127, 185105.	3.0	22
26	A new outer boundary formulation and energy corrections for the nonlinear Poisson-Boltzmann equation. <i>Journal of Computational Chemistry</i> , 2007, 28, 909-921.	3.3	42
27	Recognition of the spliceosomal branch site RNA helix on the basis of surface and electrostatic features. <i>Nucleic Acids Research</i> , 2005, 33, 1154-1161.	14.5	18
28	Structural and Thermodynamic Evidence for a Stabilizing Role of Nop5p in S-Adenosyl-L-methionine Binding to Fibrillar. <i>Journal of Biological Chemistry</i> , 2004, 279, 41822-41829.	3.4	28
29	Molecular Basis of Box C/D RNA-Protein Interactions. <i>Structure</i> , 2004, 12, 807-818.	3.3	158
30	Impact of a Poisson-Boltzmann electrostatic restraint on protein structures refined at medium resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1786-1794.	2.5	6
31	Hybrid boundary element and finite difference method for solving the nonlinear Poisson-Boltzmann equation. <i>Journal of Computational Chemistry</i> , 2004, 25, 935-955.	3.3	88
32	Fast Boundary Element Method for the Linear Poisson-Boltzmann Equation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2741-2754.	2.6	144
33	A Fast Adaptive Multipole Algorithm for Calculating Screened Coulomb (Yukawa) Interactions. <i>Journal of Computational Physics</i> , 1999, 151, 212-241.	3.8	35
34	Fast adaptive multipole method for computation of electrostatic energy in simulations of polyelectrolyte DNA. <i>Journal of Computational Chemistry</i> , 1996, 17, 976-991.	3.3	32
35	Approach to the limit of counterion condensation. <i>Biopolymers</i> , 1990, 30, 1191-1203.	2.4	99
36	A numerical counterion condensation analysis of the B-Z transition of DNA. <i>Biopolymers</i> , 1990, 30, 1205-1213.	2.4	18