Christopher M Baker

List of Publications by Year
in descending order

16 papers	1,390 citations	687363 13 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	1967 citing authors

#	Article	IF	Citations
1	Optimization of the CHARMM Additive Force Field for DNA: Improved Treatment of the BI/BII Conformational Equilibrium. Journal of Chemical Theory and Computation, 2012, 8, 348-362.	5.3	464
2	Interplay between partner and ligand facilitates the folding and binding of an intrinsically disordered protein. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15420-15425.	7.1	144
3	Polarizable force fields for molecular dynamics simulations of biomolecules. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2015, 5, 241-254.	14.6	139
4	Accurate Calculation of Hydration Free Energies using Pair-Specific Lennard-Jones Parameters in the CHARMM Drude Polarizable Force Field. Journal of Chemical Theory and Computation, 2010, 6, 1181-1198.	5.3	131
5	Development of CHARMM Polarizable Force Field for Nucleic Acid Bases Based on the Classical Drude Oscillator Model. Journal of Physical Chemistry B, 2011, 115, 580-596.	2.6	121
6	Role of aromatic amino acids in protein-nucleic acid recognition. Biopolymers, 2007, 85, 456-470.	2.4	90
7	Polarizability rescaling and atom-based Thole scaling in the CHARMM Drude polarizable force field for ethers. Journal of Molecular Modeling, 2010, 16, 567-576.	1.8	62
8	Insights into the binding of intrinsically disordered proteins from molecular dynamics simulation. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2014, 4, 182-198.	14.6	56
9	Structure, electronic circular dichroism and Raman optical activity in the gas phase and in solution: a computational and experimental investigation. Physical Chemistry Chemical Physics, 2005, 7, 1432.	2.8	39
10	Modeling Aromatic Liquids:â€‰ Toluene, Phenol, and Pyridine. Journal of Chemical Theory and Computation, 2007, 3, 530-548.	5.3	38
11	The Structure of Liquid Benzene. Journal of Chemical Theory and Computation, 2006, 2, 947-955.	5.3	36
12	Matching of Additive and Polarizable Force Fields for Multiscale Condensed Phase Simulations. Journal of Chemical Theory and Computation, 2013, 9, 2826-2837.	5.3	24
13	Electronic Circular Dichroism Spectroscopy of 1-(R)-Phenylethanol: The â€œSector Ruleâ€•Revisited and an Exploration of Solvent Effects. Israel Journal of Chemistry, 2004, 44, 27-36.	2.3	19
14	The Effect of Solvation on Biomolecular Conformation:â€‰ 2-Amino-1-phenylethanol. Journal of Physical Chemistry B, 2007, 111, 9940-9954.	2.6	12
15	A solvent induced mechanism for conformational change. Chemical Communications, 2006, , 1387.	4.1	10
16	Tautomer Standardization in Chemical Databases: Deriving Business Rules from Quantum Chemistry. Journal of Chemical Information and Modeling, 2020, 60, 3781-3791.	5.4	5