

# Christopher N Rowley

## List of Publications by Citations

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58

papers

2,674

citations

26

h-index

51

g-index

94

ext. papers

2,990

ext. citations

5.3

avg, IF

5.64

L-index

#	Paper	IF	Citations
58	Catalytic intermolecular direct arylation of perfluorobenzenes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 8754-6	16.4	729
57	Benchmarking quantum chemical methods for the calculation of molecular dipole moments and polarizabilities. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 3678-87	2.8	163
56	The Solvation Structure of Na(+) and K(+) in Liquid Water Determined from High Level ab Initio Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 3526-35	6.4	162
55	Ion selectivity in channels and transporters. <i>Journal of General Physiology</i> , <b>2011</b> , 137, 415-26	3.4	127
54	Simulation-Based Approaches for Determining Membrane Permeability of Small Compounds. <i>Journal of Chemical Information and Modeling</i> , <b>2016</b> , 56, 721-33	6.1	127
53	Theoretical and synthetic investigations of carbodiimide insertions into Al-CH <sub>3</sub> and Al-N(CH <sub>3</sub> ) <sub>2</sub> bonds. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 1983-91	5.1	93
52	Molecular simulation of nonfacilitated membrane permeation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 1672-87	3.8	84
51	Why can hydrogen sulfide permeate cell membranes?. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 15111-3	16.4	70
50	Evaluation of Methods for the Calculation of the pK <sub>a</sub> of Cysteine Residues in Proteins. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 4662-73	6.4	63
49	A Universal B3LYP-based method for gas-phase molecular properties: bond dissociation enthalpy, ionization potential, electron and proton affinity and gas-phase acidity. <i>Molecular Physics</i> , <b>2005</b> , 103, 815-823	1.7	58
48	Solution conformation of C-linked antifreeze glycoprotein analogues and modulation of ice recrystallization. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15745-53	16.4	53
47	Modeling covalent-modifier drugs. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2017</b> , 1865, 1664-1675	4	52
46	Synthesis and thermolysis of aluminum amidinates: a ligand-exchange route for new mixed-ligand systems. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 2276-81	5.1	50
45	Range-Separated DFT Functionals are Necessary to Model Thio-Michael Additions. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4860-5	6.4	49
44	Ring-opening hydroarylation of monosubstituted cyclopropanes enabled by hexafluoroisopropanol. <i>Chemical Science</i> , <b>2018</b> , 9, 6411-6416	9.4	44
43	DFT Study of the Isomerization and Spectroscopic/Structural Properties of Ruthenacyclobutane Intermediates Relevant to Olefin Metathesis. <i>Organometallics</i> , <b>2008</b> , 27, 6043-6045	3.8	42
42	The CHARMM-TURBOMOLE interface for efficient and accurate QM/MM molecular dynamics, free energies, and excited state properties. <i>Journal of Computational Chemistry</i> , <b>2014</b> , 35, 2076-86	3.5	40

41	Amidolithium and amidoaluminum catalyzed synthesis of substituted guanidines: an interplay of DFT modeling and experiment. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 9660-8	5.1	38
40	Generalized Langevin Methods for Calculating Transmembrane Diffusivity. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 5609-5619	6.4	33
39	Polarisable force fields: what do they add in biomolecular simulations?. <i>Current Opinion in Structural Biology</i> , <b>2020</b> , 61, 182-190	8.1	31
38	Counteranion Effects on the Zirconocene Polymerization Catalyst Olefin Complex from QM/MM Molecular Dynamics Simulations. <i>Organometallics</i> , <b>2011</b> , 30, 2071-2074	3.8	30
37	Evaluating Force-Field London Dispersion Coefficients Using the Exchange-Hole Dipole Moment Model. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 6146-6157	6.4	29
36	QM/MM molecular dynamics simulations of the hydration of Mg(II) and Zn(II) ions. <i>Canadian Journal of Chemistry</i> , <b>2013</b> , 91, 552-558	0.9	29
35	How Reactive are Druggable Cysteines in Protein Kinases?. <i>Journal of Chemical Information and Modeling</i> , <b>2018</b> , 58, 1935-1946	6.1	27
34	Solvation of hydrogen sulfide in liquid water and at the water-vapor interface using a polarizable force field. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 1373-80	3.4	27
33	Simulating protein-ligand binding with neural network potentials. <i>Chemical Science</i> , <b>2020</b> , 11, 2362-2368	9.4	26
32	Analysis of the critical step in catalytic carbodiimide transformation: proton transfer from amines, phosphines, and alkynes to guanidates, phosphoguanidates, and propiolamidates with Li and Al catalysts. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 12024-31	5.1	26
31	Evaluating the London Dispersion Coefficients of Protein Force Fields Using the Exchange-Hole Dipole Moment Model. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 6690-6701	3.4	23
30	The tipping point of the inert pair effect: experimental and computational comparison of In(I) and Sn(II) bis(imino)pyridine complexes. <i>Dalton Transactions</i> , <b>2014</b> , 43, 690-697	4.3	21
29	A path sampling study of Ru-hydride-catalyzed H <sub>2</sub> hydrogenation of ethylene. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7218-9	16.4	21
28	Folding free energy landscapes of $\alpha$ -sheets with non-polarizable and polarizable CHARMM force fields. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 072317	3.9	20
27	Atom efficient cyclotrimerization of dimethylcyanamide catalyzed by aluminium amide: a combined experimental and theoretical investigation. <i>Chemical Communications</i> , <b>2008</b> , 3645-7	5.8	20
26	Mechanism of Olefin Hydrogenation Catalyzed by RuHCl(L)(PR <sub>3</sub> ) <sub>2</sub> Complexes (L = CO, PR <sub>3</sub> ): A DFT Study. <i>Organometallics</i> , <b>2008</b> , 27, 1661-1663	3.8	19
25	Combined experimental and computational studies on the physical and chemical properties of the renewable amide, 3-acetamido-5-acetylfuran. <i>ChemPhysChem</i> , <b>2014</b> , 15, 4087-94	3.2	18
24	A Drude polarizable model for liquid hydrogen sulfide. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 5222-9	3.4	18

23	A Computational Experiment of the Endo versus Exo Preference in a Diels-Alder Reaction. <i>Journal of Chemical Education</i> , <b>2009</b> , 86, 199	2.4	18
22	Simulations of lipid bilayers using the CHARMM36 force field with the TIP3P-FB and TIP4P-FB water models. <i>PeerJ</i> , <b>2018</b> , 6, e5472	3.1	18
21	Quantum Chemical Methods for Modeling Covalent Modification of Biological Thiols. <i>Journal of Computational Chemistry</i> , <b>2020</b> , 41, 427-438	3.5	18
20	Automated computational screening of the thiol reactivity of substituted alkenes. <i>Journal of Computer-Aided Molecular Design</i> , <b>2015</b> , 29, 725-35	4.2	17
19	Reaction Dynamics of $\beta$ -Hydrogen Transfer in the Zirconocene Olefin Polymerization Catalyst: A DFT Path Sampling Study. <i>Organometallics</i> , <b>2008</b> , 27, 6405-6407	3.8	16
18	The hydration structure of methylthiolate from QM/MM molecular dynamics. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 045103	3.9	15
17	Polarizable Force Field with a $\beta$ -Hole for Liquid and Aqueous Bromomethane. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 13422-32	3.4	15
16	A computational study of barium blockades in the KcsA potassium channel based on multi-ion potential of mean force calculations and free energy perturbation. <i>Journal of General Physiology</i> , <b>2013</b> , 142, 451-63	3.4	13
15	Generation of initial trajectories for transition path sampling of chemical reactions with ab initio molecular dynamics. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 024110	3.9	12
14	Unlocking the Friedel-Crafts arylation of primary aliphatic alcohols and epoxides driven by hexafluoroisopropanol. <i>Chem</i> , <b>2021</b> ,	16.2	11
13	Flexible Fitting of Small Molecules into Electron Microscopy Maps Using Molecular Dynamics Simulations with Neural Network Potentials. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 2591-2604	6.1	8
12	Computational design of ruthenium hydride olefin-hydrogenation catalysts containing hemilabile ligands,. <i>Canadian Journal of Chemistry</i> , <b>2009</b> , 87, 1030-1038	0.9	7
11	Mechanisms of Alkyl and Aryl Thiol Addition to N-Methylmaleimide. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 11674-11685	4.2	7
10	New shooting algorithms for transition path sampling: centering moves and varied-perturbation sizes for improved sampling. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 234102	3.9	6
9	Benchmarking Force Field and the ANI Neural Network Potentials for the Torsional Potential Energy Surface of Biaryl Drug Fragments. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 6258-6268	6.1	6
8	The hydration structure of carbon monoxide by ab initio methods. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 034503	3.9	5
7	An explicit-solvent conformation search method using open software. <i>PeerJ</i> , <b>2016</b> , 4, e2088	3.1	5
6	Calculating the Full Free Energy Profile for Covalent Modification of a Druggable Cysteine in Bruton's Tyrosine Kinase		3

5	Modeling the Binding and Conformational Energetics of a Targeted Covalent Inhibitor to Bruton's Tyrosine Kinase. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 5234-5242	6.1	3
4	C(sp <sup>3</sup> )C(sp <sup>3</sup> ) Coupling with a Pd(II) Complex Bearing a Structurally Responsive Ligand. <i>Organometallics</i> , <b>2019</b> , 38, 1677-1681	3.8	2
3	Importance of secondary interactions in twisted doubly hydrogen bonded complexes. <i>Organic Letters</i> , <b>2012</b> , 14, 5772-5	6.2	1
2	An efficient and accurate model for water with an improved non-bonded potential. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 134105	3.9	1
1	Measuring and predicting warhead and residue reactivity. <i>Annual Reports in Medicinal Chemistry</i> , <b>2021</b> , 56, 203-227	1.6	0