

Kevin J Naidoo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,847
citations

25
h-index

41
g-index

79
ext. papers

1,963
ext. citations

4.9
avg, IF

4.85
L-index

#	Paper	IF	Citations
78	Multidimensional Free Energy and Accelerated Quantum Library Methods Provide a Gateway to Glycoenzyme Conformational, Electronic, and Reaction Mechanisms. <i>Accounts of Chemical Research</i> , 2021 , 54, 4120-4130	24.3	0
77	Anisotropic numerical potentials for coarse-grained modeling from high-speed multidimensional lookup table and interpolation algorithms. <i>Journal of Computational Chemistry</i> , 2021 , 42, 666-675	3.5	
76	Comparative ligand structural analytics illustrated on variably glycosylated MUC1 antigen-antibody binding. <i>Beilstein Journal of Organic Chemistry</i> , 2020 , 16, 2540-2550	2.5	1
75	ProtoCaller: Robust Automation of Binding Free Energy Calculations. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1917-1921	6.1	9
74	BRIDGE: An Open Platform for Reproducible Protein-Ligand Simulations and Free Energy of Binding Calculations. <i>Bio-protocol</i> , 2020 , 10, e3731	0.9	
73	BRIDGE: An Open Platform for Reproducible High-Throughput Free Energy Simulations. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 5290-5295	6.1	5
72	Biomolecular Reaction and Interaction Dynamics Global Environment (BRIDGE). <i>Bioinformatics</i> , 2019 , 35, 3508-3509	7.2	9
71	Denosing Autoencoder Self-Organizing Map (DASOM). <i>Neural Networks</i> , 2018 , 105, 112-131	9.1	28
70	Producing DFT/MM enzyme reaction trajectories from SCC-DFTB/MM driving forces to probe the underlying electronics of a glycosyltransferase reaction. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1789-1798	3.5	4
69	Solution structures of chloroquine-ferriheme complexes modeled using MD simulation and investigated by EXAFS spectroscopy. <i>Journal of Inorganic Biochemistry</i> , 2016 , 154, 114-25	4.2	10
68	Multidimensional Reaction Dynamics Reveal How the Enzyme TcTS Suppresses Competing Side Reactions and Their Side Products. <i>ACS Catalysis</i> , 2016 , 6, 6384-6392	13.1	3
67	Glycosyltransferase Gene Expression Profiles Classify Cancer Types and Propose Prognostic Subtypes. <i>Scientific Reports</i> , 2016 , 6, 26451	4.9	40
66	The Glycome Analytics Platform: an integrative framework for glycobioinformatics. <i>Bioinformatics</i> , 2016 , 32, 3005-11	7.2	5
65	Conformational and electrostatic analysis of S1 donor analogue glycomimetic inhibitors of ST3Gal-I mammalian sialyltransferase. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 4998-5005	3.4	2
64	Quantum supercharger library: hyper-parallel integral derivatives algorithms for ab initio QM/MM dynamics. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1410-9	3.5	4
63	Quantum supercharger library: hyper-parallelism of the Hartree-Fock method. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1399-409	3.5	4
62	Profiling transition-state configurations on the Trypanosoma cruzi trans-sialidase free-energy reaction surfaces. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1192-201	3.4	5

61	Computational rationale for the selective inhibition of the herpes simplex virus type 1 uracil-DNA glycosylase enzyme. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 3362-72	6.1	4
60	Simple Link Atom Saccharide Hybrid (SLASH) Treatment for Glycosidic Bonds at the QM/MM Boundary. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1727-38	6.4	3
59	AM1/d-CB1: A Semiempirical Model for QM/MM Simulations of Chemical Glycobiology Systems. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 4694-4707	6.4	30
58	Evaluating AM1/d-CB1 for Chemical Glycobiology QM/MM Simulations. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 4708-17	6.4	13
57	Molecular structures and solvation of free monomeric and dimeric ferriheme in aqueous solution: insights from molecular dynamics simulations and extended X-ray absorption fine structure spectroscopy. <i>Inorganic Chemistry</i> , 2014 , 53, 10811-24	5.1	11
56	Conformational preferences of plumbagin with phenyl-1-thioglucoside conjugates in solution and bound to MshB determined by aromatic association. <i>Carbohydrate Research</i> , 2013 , 371, 52-60	2.9	8
55	PNP diminishes guanosine glycosidic bond strength through restrictive ring pucker as a precursor to phosphorylation. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 6019-26	3.4	1
54	Interpreting medium ring canonical conformers by a triangular plane tessellation of the macrocycle. <i>Journal of Chemical Physics</i> , 2013 , 138, 184110	3.9	5
53	Experimental and time-dependent density functional theory characterization of the UV-visible spectra of monomeric and dimeric ferriprotoporphyrin IX. <i>Inorganic Chemistry</i> , 2012 , 51, 10233-50	5.1	19
52	An enzyme-initiated Smiles rearrangement enables the development of an assay of MshB, the GlcNAc-Ins deacetylase of mycothiol biosynthesis. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 5278-88 ^{3,9}		4
51	Multidimensional free energy volumes offer unique insights into reaction mechanisms, molecular conformation and association. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9026-36	3.6	9
50	Hydration-determined orientational preferences in aromatic association from benzene dimer free energy volumes. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 324-31	3.4	10
49	Molecular details from computational reaction dynamics for the cellobiohydrolase I glycosylation reaction. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19474-82	16.4	41
48	Conformational preferences in diglycosyl disulfides: NMR and molecular modeling studies. <i>Carbohydrate Research</i> , 2011 , 346, 2612-21	2.9	8
47	FEARCF a multidimensional free energy method for investigating conformational landscapes and chemical reaction mechanisms. <i>Science China Chemistry</i> , 2011 , 54, 1962-1973	7.9	11
46	Acceleration of the GAMESS-UK electronic structure package on graphical processing units. <i>Journal of Computational Chemistry</i> , 2011 , 32, 2313-8	3.5	37
45	The extent of conformational rigidity determines hydration in nonaromatic hexacyclic systems. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 2608-16	3.4	9
44	Using solvent binding and dielectric friction to interpret the hydration behavior of complex anions. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 1045-55	3.4	10

43	Implementation of CASTfill Low-Dross Pouring System for Ingot Casting. <i>Materials Science Forum</i> , 2011 , 693, 227-234	0.4	
42	Experimentally consistent ion association predicted for metal solutions from free energy simulations. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7286-93	3.4	16
41	Pyranose ring transition state is derived from cellobiohydrolase I induced conformational stability and glycosidic bond polarization. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12800-3	16.4	37
40	Ring puckering: a metric for evaluating the accuracy of AM1, PM3, PM3CARB-1, and SCC-DFTB carbohydrate QM/MM simulations. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 17142-54	3.4	73
39	Computing free energy hypersurfaces for anisotropic intermolecular associations. <i>Journal of Computational Chemistry</i> , 2010 , 31, 308-16	3.5	4
38	Optimal configurations of "capped" beta-cyclodextrin dimers in water maximise hydrophobic association. <i>ChemPhysChem</i> , 2010 , 11, 452-9	3.2	4
37	Molecular Associations Determined from Free Energy Calculations 2010 , 1-20		1
36	Calculating Ring Pucker Free Energy Surfaces From Reaction Coordinate Forces 2009 ,		2
35	Free Energies from Adaptive Reaction Coordinate Forces (FEARCF): an application to ring puckering. <i>Molecular Physics</i> , 2009 , 107, 1243-1250	1.7	40
34	NMR studies of molecular conformations in alpha-cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 8434-6	3.4	18
33	Glucose orientation and dynamics in alpha-, beta-, and gamma-cyclodextrins. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15151-7	3.4	23
32	Conformational flexibility of sulphur linked saccharides a possible key to their glycosidase inhibitor activity. <i>Molecular Simulation</i> , 2008 , 34, 391-402	2	5
31	C-2-aryl O-substituted HI-236 derivatives as non-nucleoside HIV-1 reverse-transcriptase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 10270-80	3.4	21
30	Stereoelectronic and solvation effects determine hydroxymethyl conformational preferences in monosaccharides. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15450-9	3.4	47
29	Haemozoin (beta-haematin) biomineralization occurs by self-assembly near the lipid/water interface. <i>FEBS Letters</i> , 2006 , 580, 5105-10	3.8	111
28	Free energy surfaces for the alpha(1 --> 4)-glycosidic linkage: implications for polysaccharide solution structure and dynamics. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7468-74	3.4	47
27	Glycosidic linkage rotations determine amylose stretching mechanism. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12-3	16.4	42
26	Ramachandran free-energy surfaces for disaccharides: trehalose, a case study. <i>Carbohydrate Research</i> , 2005 , 340, 875-9	2.9	20

25	Molecular Properties Related to the Anomalous Solubility of β -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 4236-4238	3.4	87
24	Implementation of an adaptive umbrella sampling method for the calculation of multidimensional potential of mean force of chemical reactions in solution. <i>Journal of Computational Chemistry</i> , 2003 , 24, 1775-81	3.5	50
23	Contact ion pair between Na^+ and PtCl_6^{2-} favored in methanol. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13330-1	16.4	33
22	Evaluating Intramolecular Hydrogen Bond Strengths in (1 β) Linked Disaccharides from Electron Density Relationships. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9558-9566	3.4	31
21	The role of water in the design of glycosidic linkage flexibility. <i>Molecular Physics</i> , 2003 , 101, 2687-2694	1.7	23
20	Carbohydrate solution simulations: producing a force field with experimentally consistent primary alcohol rotational frequencies and populations. <i>Journal of Computational Chemistry</i> , 2002 , 23, 1236-43	3.5	258
19	Modeling the (1 \rightarrow 6) Branch Point of Amylopectin in Solution. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 5091-5098	3.4	17
18	Geometric hydration shells for anionic platinum group metal chloro complexes. <i>Inorganic Chemistry</i> , 2002 , 41, 1845-9	5.1	36
17	AN NMR INVESTIGATION INTO THE DYNAMICS OF PANOSE, AN (1 \rightarrow 4) AND (1 \rightarrow 6)-LINKED TRISACCHARIDE. <i>Spectroscopy Letters</i> , 2002 , 35, 625-632	1.1	3
16	Water structure about the dimer and hexamer repeat units of amylose from molecular dynamics computer simulations. <i>Journal of Computational Chemistry</i> , 2001 , 22, 445-456	3.5	68
15	Modeling platinum group metal complexes in aqueous solution. <i>Inorganic Chemistry</i> , 2001 , 40, 2352-7	5.1	33
14	Molecular Dynamics and NMR Study of the (1 \rightarrow 4) and (1 \rightarrow 6) Glycosidic Linkages: Maltose and Isomaltose. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4742-4751	3.4	58
13	Water structure about the dimer and hexamer repeat units of amylose from molecular dynamics computer simulations 2001 , 22, 445		1
12	The synthesis, characterization and properties of alkyl complexes of the type $[\text{Cp}^*\text{Fe}(\text{CO})_2\text{R}]$ ($\text{Cp}^* = \eta\text{-C}_5(\text{CH}_3)_5$; $\text{R} = \text{n-C}_3\text{H}_7$ to $\text{n-C}_{12}\text{H}_{25}$); the X-ray crystal and molecular structure of $[\text{Cp}^*\text{Fe}(\text{CO})_2(\text{n-C}_5\text{H}_{11})]$ and molecular orbital and density functional calculations on the hydride elimination of $[\text{Cp}^*\text{Fe}(\text{CO})_2(\text{C}_{12}\text{H}_{25})]$. <i>Journal of Organometallic Chemistry</i> , 1999 , 587, 28-37	2.3	23
11	Force-field parameterisation, synthesis and crystal structure of a novel tricarbonylchromium arene complex. <i>Journal of Organometallic Chemistry</i> , 1999 , 588, 176-185	2.3	5
10	Computational Investigations into the Potential Use of Poly(benzyl phenyl ether) Dendrimers as Supports for Organometallic Catalysts. <i>Macromolecules</i> , 1999 , 32, 331-341	5.5	49
9	Calculation of the Ramachandran Potential of Mean Force for a Disaccharide in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 1999 , 121, 2244-2252	16.4	62
8	Organometallic dendrimers. <i>Advances in Dendritic Macromolecules</i> , 1999 , 1-60		24

7	Molecular dynamics simulations of a glycoprotein: the lectin from <i>Erythrina corallodendron</i> . <i>Computational and Theoretical Chemistry</i> , 1997 , 395-396, 469-475		5
6	The application of simulated annealing to the conformational analysis of disaccharides. <i>Chemical Physics</i> , 1997 , 224, 263-273	2.3	18
5	Melting of two-dimensional colloidal crystals: A simulation study of the Yukawa system. <i>Journal of Chemical Physics</i> , 1994 , 100, 3114-3121	3.9	46
4	Two-dimensional melting revisited. <i>Molecular Physics</i> , 1993 , 80, 1-24	1.7	26
3	Lel 2 ob and ob2lel cage complexes based on $[\text{Co}(\text{pn})_3]^{3+}$ (pn = propane-1,2-diamine): synthesis, resolution, and tentative identity of their fac and mer geometrical isomers. <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 998		3
2	71.36 The Oldest Mathematical Artefact. <i>Mathematical Gazette</i> , 1987 , 71, 294	0.1	14
1	Tessellate & Montage: Molecular analytics of cyclic conformations. <i>F1000Research</i> , 6 , 2113	3.6	