

# Ian Gould

## List of Publications by Citations

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48  
papers

13,243  
citations

22  
h-index

54  
g-index

54  
ext. papers

14,177  
ext. citations

4.8  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
48	A Second Generation Force Field for the Simulation of Proteins, Nucleic Acids, and Organic Molecules. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 5179-5197	16.4	10990
47	Lipid14: The Amber Lipid Force Field. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 865-879	6.4	725
46	Structural characterization of the 1-butyl-3-methylimidazolium chloride ion pair using ab initio methods. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 2269-82	2.8	184
45	The Structure of Imidazolium-Based Ionic Liquids: Insights From Ion-Pair Interactions. <i>Australian Journal of Chemistry</i> , <b>2007</b> , 60, 9	1.2	182
44	GAFFlipid: a General Amber Force Field for the accurate molecular dynamics simulation of phospholipid. <i>Soft Matter</i> , <b>2012</b> , 8, 9617	3.6	151
43	Assessment of standard force field models against high-quality ab initio potential curves for prototypes of pi-pi, CH/pi, and SH/pi interactions. <i>Journal of Computational Chemistry</i> , <b>2009</b> , 30, 2187-93	3.5	81
42	Structure and dynamics of phospholipid bilayers using recently developed general all-atom force fields. <i>Journal of Computational Chemistry</i> , <b>2008</b> , 29, 24-37	3.5	76
41	Large and Fast Relaxations inside a Protein: Calculation and Measurement of Reorganization Energies in Alcohol Dehydrogenase. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 11658-11665	3.4	69
40	Imaging phase separation in model lipid membranes through the use of BODIPY based molecular rotors. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 18393-402	3.6	66
39	Comparing experimental and computational alanine scanning techniques for probing a prototypical protein-protein interaction. <i>Protein Engineering, Design and Selection</i> , <b>2011</b> , 24, 197-207	1.9	62
38	Glyoxylate as a backbone linkage for a prebiotic ancestor of RNA. <i>Origins of Life and Evolution of Biospheres</i> , <b>2006</b> , 36, 39-63	1.5	62
37	A Quantum Mechanical/Molecular Mechanical Approach to Relaxation Dynamics: Calculation of the Optical Properties of Solvated Bacteriochlorophyll-a. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 7720-7727	3.4	54
36	Biological and biomedical applications of two-dimensional vibrational spectroscopy: proteomics, imaging, and structural analysis. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 1322-31	24.3	44
35	All-atom lipid bilayer self-assembly with the AMBER and CHARMM lipid force fields. <i>Chemical Communications</i> , <b>2015</b> , 51, 4402-5	5.8	40
34	Protein identification and quantification by two-dimensional infrared spectroscopy: implications for an all-optical proteomic platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 15352-7	11.5	40
33	A Parameterization of Cholesterol for Mixed Lipid Bilayer Simulation within the Amber Lipid14 Force Field. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 12424-35	3.4	38
32	Simulation of lipid bilayer self-assembly using all-atom lipid force fields. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 10573-84	3.6	32

31	Direct identification and decongestion of Fermi resonances by control of pulse time ordering in two-dimensional IR spectroscopy. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 114513	3.9	30
30	Optical fingerprinting of peptides using two-dimensional infrared spectroscopy: proof of principle. <i>Analytical Biochemistry</i> , <b>2008</b> , 374, 358-65	3.1	29
29	Imaging plasma membrane phase behaviour in live cells using a thiophene-based molecular rotor. <i>Chemical Communications</i> , <b>2016</b> , 52, 13269-13272	5.8	29
28	Ab initio computational study of positron emission tomography ligands interacting with lipid molecule for the prediction of nonspecific binding. <i>Journal of Computational Chemistry</i> , <b>2008</b> , 29, 2397-405	3.5	23
27	Detection of complex formation and determination of intermolecular geometry through electrical anharmonic coupling of molecular vibrations using electron-vibration-vibration two-dimensional infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 8417-21	3.6	22
26	Decongestion of methylene spectra in biological and non-biological systems using picosecond 2DIR spectroscopy measuring electron-vibration-vibration coupling. <i>Chemical Physics</i> , <b>2008</b> , 350, 201-211	2.3	21
25	Optical properties of solvated molecules calculated by a QMMM method Chlorophyll a and bacteriochlorophyll a. <i>Faraday Discussions</i> , <b>1997</b> , 108, 51-62	3.6	19
24	Comparison of basis set effects and the performance of ab initio and DFT methods for probing equilibrium fluctuations. <i>Journal of Computational Chemistry</i> , <b>2007</b> , 28, 478-90	3.5	19
23	Functional asymmetry in the lysyl-tRNA synthetase explored by molecular dynamics, free energy calculations and experiment. <i>BMC Structural Biology</i> , <b>2003</b> , 3, 5	2.7	19
22	A combined QM and MM investigation into guanine quadruplexes. <i>Journal of Molecular Graphics and Modelling</i> , <b>2005</b> , 24, 138-46	2.8	19
21	Troponin structure: its modulation by Ca(2+) and phosphorylation studied by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 20691-707	3.6	14
20	Understanding the relative affinity and specificity of the pleckstrin homology domain of protein kinase B for inositol phosphates. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 929-36	3.6	13
19	Molecular dynamics simulations of LysRS: an asymmetric state. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2006</b> , 62, 649-62	4.2	12
18	Correlated ab initio quantum chemical calculations of di- and trisaccharide conformations. <i>Journal of Computational Chemistry</i> , <b>2007</b> , 28, 1965-73	3.5	10
17	A computational study of Anthracyclines interacting with lipid bilayers: Correlation of membrane insertion rates, orientation effects and localisation with cytotoxicity. <i>Scientific Reports</i> , <b>2019</b> , 9, 2155	4.9	9
16	A theoretical investigation of inositol 1,3,4,5-tetrakisphosphate. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 1070-81	3.6	7
15	Potential for the detection of molecular complexes and determination of interaction geometry by 2DIR: application to protein sciences. <i>Faraday Discussions</i> , <b>2011</b> , 150, 161-74; discussion 257-92	3.6	7
14	Further evaluation of quantum chemical methods for the prediction of non-specific binding of positron emission tomography tracers. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 21552-7	3.6	7

13	Effect of adiabaticity on electron dynamics in zinc myoglobin. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5954-61	3.4	6
12	Molecular dynamics studies on the DNA-binding process of ERG. <i>Molecular BioSystems</i> , <b>2016</b> , 12, 3600-3610		5
11	A TDDFT investigation of the Photosystem II reaction center: Insights into the precursors to charge separation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 19705-19712	11.5	4
10	The Effect of pH on the Photophysics and Photochemistry of Di-sulphonated Aluminum Phthalocyanine. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 71, 397-404	3.6	3
9	Computational Chemistry: Application to Biological Systems. <i>Molecular Simulation</i> , <b>2001</b> , 26, 73-83	2	3
8	Mechanism of Photoinduced Triplet Intermolecular Hydrogen Transfer between Cycloxydim and Chlorothalonil. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 4285-4293	2.8	2
7	Mutational Locally Enhanced Sampling (MULES) for quantitative prediction of the effects of mutations at protein-protein interfaces. <i>Chemical Science</i> , <b>2012</b> , 3, 1503	9.4	2
6	A Quantum Mechanical/Molecular Mechanical Approach to Solvation Dynamics Tested by Three Pulse Photon Echo Measurements. <i>Springer Series in Chemical Physics</i> , <b>1998</b> , 532-534	0.3	2
5	The Parasol Protocol for computational mutagenesis. <i>Protein Engineering, Design and Selection</i> , <b>2016</b> , 29, 253-61	1.9	2
4	Modeling the Effect of BSEP Inhibitors in Lipid Bilayers by Means of All-Atom Molecular Dynamics Simulation. <i>ACS Omega</i> , <b>2019</b> , 4, 3341-3350	3.9	2
3	Modulation of cardiac thin filament structure by phosphorylated troponin-I analyzed by protein-protein docking and molecular dynamics simulation.. <i>Archives of Biochemistry and Biophysics</i> , <b>2022</b> , 109282	4.1	2
2	Triplet 1-Nitronaphthalene and Competitive Energy and Electron Transfer Reactions With Trans-Stilbene. <i>Laser Chemistry</i> , <b>1999</b> , 19, 397-401		1
1	Design, synthesis and evaluation of a tripodal receptor for phosphatidylinositol phosphates. <i>Scientific Reports</i> , <b>2020</b> , 10, 18450	4.9	0