

# Thomas Fox

## List of Publications by Citations

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50  
papers

14,179  
citations

29  
h-index

50  
g-index

50  
ext. papers

15,026  
ext. citations

6.6  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
50	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
49	Molecular Dynamics Simulations on Solvated Biomolecular Systems: The Particle Mesh Ewald Method Leads to Stable Trajectories of DNA, RNA, and Proteins. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 4193-4194	16.4	659
48	Application of the RESP Methodology in the Parametrization of Organic Solvents. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 8070-8079	3.4	421
47	Energy decomposition analysis approaches and their evaluation on prototypical protein-drug interaction patterns. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 3177-211	58.5	204
46	GRID/CPCA: a new computational tool to design selective ligands. <i>Journal of Medicinal Chemistry</i> , <b>2000</b> , 43, 3033-44	8.3	179
45	The development/application of a minimalist organic/biochemical molecular mechanic force field using a combination of ab initio calculations and experimental data <b>1997</b> , 83-96		156
44	Heteroaromatic $\pi$ -stacking energy landscapes. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 1371-9	6.1	113
43	Accuracy assessment and automation of free energy calculations for drug design. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 108-20	6.1	99
42	A molecular level picture of the stabilization of A-DNA in mixed ethanol-water solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 9626-30	11.5	99
41	Use of Locally Enhanced Sampling in Free Energy Calculations: Testing and Application to the $\beta$ -Anomerization of Glucose. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 5771-5782	16.4	85
40	The application of different solvation and electrostatic models in molecular dynamics simulations of ubiquitin: how well is the X-ray structure "maintained"? <i>Proteins: Structure, Function and Bioinformatics</i> , <b>1996</b> , 25, 315-34	4.2	80
39	Machine learning techniques for in silico modeling of drug metabolism. <i>Current Topics in Medicinal Chemistry</i> , <b>2006</b> , 6, 1579-91	3	75
38	Dispersion dominated halogen- $\pi$ interactions: energies and locations of minima. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 14941-9	3.6	69
37	The calculation of solvatochromic shifts: the n- $\pi^*$ transition of acetone. <i>Chemical Physics Letters</i> , <b>1992</b> , 191, 33-37	2.5	61
36	A challenging system: free energy prediction for factor Xa. <i>Journal of Computational Chemistry</i> , <b>2011</b> , 32, 1743-52	3.5	55
35	Calculation of Ionization Potentials and C-H Bond Dissociation Energies of Toluene Derivatives. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 2950-2956		54
34	A support vector machine approach to classify human cytochrome P450 3A4 inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , <b>2005</b> , 19, 189-201	4.2	50

33	Stabilizing of a globular protein by a highly complex water network: a molecular dynamics simulation study on factor Xa. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 7405-12	3-4	49
32	Protein and metal cluster structure of the wheat metallothionein domain $\Xi(c)$ -1: the second part of the puzzle. <i>Journal of Biological Inorganic Chemistry</i> , <b>2011</b> , 16, 683-94	3-7	44
31	Electrostatic embedding in large-scale first principles quantum mechanical calculations on biomolecules. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 224107	3-9	44
30	Multivariate modeling of cytochrome P450 3A4 inhibition. <i>European Journal of Pharmaceutical Sciences</i> , <b>2005</b> , 24, 451-63	5-1	40
29	Free energies of binding from large-scale first-principles quantum mechanical calculations: application to ligand hydration energies. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 9478-85	3-4	39
28	Peptidic Macrocycles - Conformational Sampling and Thermodynamic Characterization. <i>Journal of Chemical Information and Modeling</i> , <b>2018</b> , 58, 982-992	6-1	38
27	Computational approaches to predict drug metabolism. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2009</b> , 5, 15-27	5-5	36
26	Ligand Binding in the Catalytic Antibody 17E8. A Free Energy Perturbation Calculation Study. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 11571-11577	16-4	35
25	Prediction of Human Cytochrome P450 Inhibition Using Support Vector Machines. <i>QSAR and Combinatorial Science</i> , <b>2005</b> , 24, 491-502		33
24	A "Stepping Stone" Approach for Obtaining Quantum Free Energies of Hydration. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 7030-40	3-4	32
23	Electrostatic solvent effects on the electronic structure of ground and excited states of molecules: Applications of a cavity model based upon a finite element method. <i>Journal of Computational Chemistry</i> , <b>1993</b> , 14, 253-262	3-5	32
22	Assessing the accuracy of octanol-water partition coefficient predictions in the SAMPL6 Part II log $P$ Challenge. <i>Journal of Computer-Aided Molecular Design</i> , <b>2020</b> , 34, 335-370	4-2	29
21	Large-scale DFT calculations in implicit solvent: a case study on the T4 lysozyme L99A/M102Q protein. <i>International Journal of Quantum Chemistry</i> , <b>2013</b> , 113, 771-785	2-1	29
20	Density functional theory calculations on entire proteins for free energies of binding: application to a model polar binding site. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2014</b> , 82, 3335-46	4-2	28
19	Bias-correction of regression models: a case study on hERG inhibition. <i>Journal of Chemical Information and Modeling</i> , <b>2009</b> , 49, 1486-96	6-1	27
18	Onion design and its application to a pharmaceutical QSAR problem. <i>Journal of Chemometrics</i> , <b>2004</b> , 18, 188-202	1-6	25
17	Modeling of the geometry of densely packed chemisorbed overlayers: small organic molecules on Ni(110) and Pd(110). <i>Surface Science</i> , <b>1991</b> , 256, 159-170	1-8	19
16	First Principles-Based Calculations of Free Energy of Binding: Application to Ligand Binding in a Self-Assembling Superstructure. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 1102-8	6-4	17

15	Application of Free Energy Perturbation Calculations to the Tennis Ball Dimer: Why Is CF <sub>4</sub> Not Encapsulated by This Host?. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 10779-10783		15
14	Intuitive Density Functional Theory-Based Energy Decomposition Analysis for Protein-Ligand Interactions. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 1837-1850	6.4	14
13	Energy Decomposition Analysis Based on Absolutely Localized Molecular Orbitals for Large-Scale Density Functional Theory Calculations in Drug Design. <i>Journal of Chemical Theory and Computation</i> , <b>2016</b> , 12, 3135-48	6.4	14
12	Economical and accurate protocol for calculating hydrogen-bond-acceptor strengths. <i>Journal of Chemical Information and Modeling</i> , <b>2013</b> , 53, 3262-72	6.1	14
11	Calculation of Electronic Spectra of Hydrated Ln(III) Ions within the INDO/S-CI Approach. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 600-605		14
10	A GRID-derived water network stabilizes molecular dynamics computer simulations of a protease. <i>Journal of Chemical Information and Modeling</i> , <b>2011</b> , 51, 2860-7	6.1	13
9	Computer based screening of compound databases: 1. Preselection of benzamidine-based thrombin inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , <b>2000</b> , 14, 411-25	4.2	13
8	On the cavity model for solvent shifts of excited states: a critical appraisal. <i>Computational and Theoretical Chemistry</i> , <b>1992</b> , 276, 279-297		13
7	Protein-ligand free energies of binding from full-protein DFT calculations: convergence and choice of exchange-correlation functional. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 9381-9393	3.6	9
6	Design of rigid donor-acceptor systems with a low-lying charge-transfer state: an INDO model study of barrelene-based compounds. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 11420-11426		7
5	Chapter 5 Linear Quantitative Structure-Activity Relationships for the Interaction of Small Molecules with Human Cytochrome P450 Isoenzymes. <i>Annual Reports in Computational Chemistry</i> , <b>2007</b> , 63-81	1.8	2
4	On the electronic structure of barrelene-based rigid organic donor-acceptor systems. An INDO model study including solvent effects. <i>International Journal of Quantum Chemistry</i> , <b>1992</b> , 44, 551-561	2.1	2
3	Assessing the accuracy of octanol-water partition coefficient predictions in the SAMPL6 Part II logP Challenge		2
2	Protein Selectivity Studies Using GRID-MIFs. <i>Methods and Principles in Medicinal Chemistry</i> , <b>2005</b> , 43-82	0.4	1
1	On the electronic structure of barrelene-based rigid organic donor-acceptor systems. A comparison of INDO/S-CI calculations with absorption and fluorescence emission spectra. <i>Chemical Physics</i> , <b>1993</b> , 175, 357-367	2.3	1