

# Thomas Fox

## List of Publications by Year in descending order

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48  
papers

15,821  
citations

172207

29  
h-index

223531

46  
g-index

50  
all docs

50  
docs citations

50  
times ranked

14819  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Second Generation Force Field for the Simulation of Proteins, Nucleic Acids, and Organic Molecules. <i>Journal of the American Chemical Society</i> , 1995, 117, 5179-5197.	6.6	12,116
2	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> , 1995, 117, 4193-4194.	6.6	780
3	Application of the RESP Methodology in the Parametrization of Organic Solvents. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8070-8079.	1.2	483
4	Energy decomposition analysis approaches and their evaluation on prototypical protein-drug interaction patterns. <i>Chemical Society Reviews</i> , 2015, 44, 3177-3211.	18.7	284
5	GRID/CPA: A New Computational Tool To Design Selective Ligands. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 3033-3044.	2.9	191
6	The development/application of a "minimalist" organic/biochemical molecular mechanic force field using a combination of ab initio calculations and experimental data. , 1997, , 83-96.		176
7	Heteroaromatic $\pi$ -Stacking Energy Landscapes. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1371-1379.	2.5	144
8	Accuracy Assessment and Automation of Free Energy Calculations for Drug Design. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 108-120.	2.5	111
9	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> , 1997, 94, 9626-9630.	3.3	104
10	Use of Locally Enhanced Sampling in Free Energy Calculations: Testing and Application to the Anomerization of Glucose. <i>Journal of the American Chemical Society</i> , 1998, 120, 5771-5782.	6.6	88
11	The application of different solvation and electrostatic models in molecular dynamics simulations of ubiquitin: How well is the x-ray structure "maintained"? , 1996, 25, 315-334.		81
12	Machine Learning Techniques for In Silico Modeling of Drug Metabolism. <i>Current Topics in Medicinal Chemistry</i> , 2006, 6, 1579-1591.	1.0	79
13	A challenging system: Free energy prediction for factor Xa. <i>Journal of Computational Chemistry</i> , 2011, 32, 1743-1752.	1.5	75
14	Dispersion dominated halogen interactions: energies and locations of minima. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14941.	1.3	73
15	The calculation of solvatochromic shifts: the n $\rightarrow$ * transition of acetone. <i>Chemical Physics Letters</i> , 1992, 191, 33-37.	1.2	65
16	Calculation of Ionization Potentials and C-H Bond Dissociation Energies of Toluene Derivatives. <i>The Journal of Physical Chemistry</i> , 1996, 100, 2950-2956.	2.9	60
17	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> , 2010, 114, 7405-7412.	1.2	59
18	Peptidic Macrocycles - Conformational Sampling and Thermodynamic Characterization. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 982-992.	2.5	55

#	ARTICLE	IF	CITATIONS
19	A support vector machine approach to classify human cytochrome P450 3A4 inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2005, 19, 189-201.	1.3	54
20	Electrostatic embedding in large-scale first principles quantum mechanical calculations on biomolecules. <i>Journal of Chemical Physics</i> , 2011, 135, 224107.	1.2	52
21	Protein and metal cluster structure of the wheat metallothionein domain $\hat{I}^3$ -Ec-1: the second part of the puzzle. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 683-694.	1.1	46
22	Computational approaches to predict drug metabolism. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2009, 5, 15-27.	1.5	44
23	Assessing the accuracy of octanol-water partition coefficient predictions in the SAMPL6 Part II log $\hat{P}$ Challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2020, 34, 335-370.	1.3	44
24	Multivariate modeling of cytochrome P450 3A4 inhibition. <i>European Journal of Pharmaceutical Sciences</i> , 2005, 24, 451-463.	1.9	43
25	Free Energies of Binding from Large-Scale First-Principles Quantum Mechanical Calculations: Application to Ligand Hydration Energies. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9478-9485.	1.2	41
26	Prediction of Human Cytochrome P450 Inhibition Using Support Vector Machines. <i>QSAR and Combinatorial Science</i> , 2005, 24, 491-502.	1.5	37
27	Ligand Binding in the Catalytic Antibody 17E8. A Free Energy Perturbation Calculation Study. <i>Journal of the American Chemical Society</i> , 1997, 119, 11571-11577.	6.6	36
28	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> , 1993, 14, 253-262.	1.5	34
29	Large-scale DFT calculations in implicit solvent-A case study on the T4 lysozyme L99A/M102Q protein. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 771-785.	1.0	34
30	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> , 2014, 82, 3335-3346.	1.5	34
31	A "Stepping Stone" Approach for Obtaining Quantum Free Energies of Hydration. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7030-7040.	1.2	34
32	Onion design and its application to a pharmaceutical QSAR problem. <i>Journal of Chemometrics</i> , 2004, 18, 188-202.	0.7	30
33	Bias-Correction of Regression Models: A Case Study on hERG Inhibition. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 1486-1496.	2.5	29
34	Modeling of the geometry of densely packed chemisorbed overlayers: small organic molecules on Ni(110) and Pd(110). <i>Surface Science</i> , 1991, 256, 159-170.	0.8	21
35	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> , 2016, 12, 3135-3148.	2.3	20
36	Protein-ligand free energies of binding from full-protein DFT calculations: convergence and choice of exchange-correlation functional. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9381-9393.	1.3	20

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37	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> , 2011, 7, 1102-1108.	2.3	19
38	Intuitive Density Functional Theory-Based Energy Decomposition Analysis for Protein-Ligand Interactions. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 1837-1850.	2.3	19
39	Calculation of Electronic Spectra of Hydrated Ln(III) Ions within the INDO/S-CI Approach. <i>The Journal of Physical Chemistry</i> , 1995, 99, 600-605.	2.9	17
40	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> , 1996, 100, 10779-10783.	2.9	17
41	Computer based screening of compound databases: 1. Preselection of benzamidine-based thrombin inhibitors. , 2000, 14, 411-425.		15
42	Economical and Accurate Protocol for Calculating Hydrogen-Bond-Acceptor Strengths. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 3262-3272.	2.5	14
43	On the cavity model for solvent shifts of excited states " a critical appraisal. <i>Computational and Theoretical Chemistry</i> , 1992, 276, 279-297.	1.5	13
44	A GRID-Derived Water Network Stabilizes Molecular Dynamics Computer Simulations of a Protease. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2860-2867.	2.5	13
45	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> , 1993, 97, 11420-11426.	2.9	8
46	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> , 1992, 44, 551-561.	1.0	2
47	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> , 2007, , 63-81.	0.9	2
48	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> , 1993, 175, 357-367.	0.9	1