

Thomas Fox

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.

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	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	3.6	9
49	Assessing the accuracy of octanol-water partition coefficient predictions in the SAMPL6 Part II logP Challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 335-370	4.2	29
48	Peptidic Macrocycles - Conformational Sampling and Thermodynamic Characterization. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 982-992	6.1	38
47	Intuitive Density Functional Theory-Based Energy Decomposition Analysis for Protein-Ligand Interactions. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1837-1850	6.4	14
46	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, 3135-48	6.4	14
45	A "Stepping Stone" Approach for Obtaining Quantum Free Energies of Hydration. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7030-40	3.4	32
44	Energy decomposition analysis approaches and their evaluation on prototypical protein-drug interaction patterns. <i>Chemical Society Reviews</i> , 2015 , 44, 3177-211	58.5	204
43	Heteroaromatic π -stacking energy landscapes. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1371-9	6.1	113
42	Accuracy assessment and automation of free energy calculations for drug design. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 108-20	6.1	99
41	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, 3335-46	4.2	28
40	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	2.1	29
39	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, 9478-85	3.4	39
38	Economical and accurate protocol for calculating hydrogen-bond-acceptor strengths. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 3262-72	6.1	14
37	A GRID-derived water network stabilizes molecular dynamics computer simulations of a protease. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2860-7	6.1	13
36	Protein and metal cluster structure of the wheat metallothionein domain β (c)-1: the second part of the puzzle. <i>Journal of Biological Inorganic Chemistry</i> , 2011 , 16, 683-94	3.7	44
35	A challenging system: free energy prediction for factor Xa. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1743-52	3.5	55
34	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, 1102-8	6.4	17

33	Electrostatic embedding in large-scale first principles quantum mechanical calculations on biomolecules. <i>Journal of Chemical Physics</i> , 2011 , 135, 224107	3.9	44
32	Dispersion dominated halogen- π interactions: energies and locations of minima. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14941-9	3.6	69
31	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, 7405-12	3.4	49
30	Bias-correction of regression models: a case study on hERG inhibition. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1486-96	6.1	27
29	Computational approaches to predict drug metabolism. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2009 , 5, 15-27	5.5	36
28	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	1.8	2
27	Machine learning techniques for in silico modeling of drug metabolism. <i>Current Topics in Medicinal Chemistry</i> , 2006 , 6, 1579-91	3	75
26	Multivariate modeling of cytochrome P450 3A4 inhibition. <i>European Journal of Pharmaceutical Sciences</i> , 2005 , 24, 451-63	5.1	40
25	A support vector machine approach to classify human cytochrome P450 3A4 inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2005 , 19, 189-201	4.2	50
24	Prediction of Human Cytochrome P450 Inhibition Using Support Vector Machines. <i>QSAR and Combinatorial Science</i> , 2005 , 24, 491-502		33
23	Protein Selectivity Studies Using GRID-MIFs. <i>Methods and Principles in Medicinal Chemistry</i> , 2005 , 43-82	0.4	1
22	Onion design and its application to a pharmaceutical QSAR problem. <i>Journal of Chemometrics</i> , 2004 , 18, 188-202	1.6	25
21	Computer based screening of compound databases: 1. Preselection of benzamidine-based thrombin inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2000 , 14, 411-25	4.2	13
20	GRID/CPCA: a new computational tool to design selective ligands. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 3033-44	8.3	179
19	Use of Locally Enhanced Sampling in Free Energy Calculations: Testing and Application to the β -Anomerization of Glucose. <i>Journal of the American Chemical Society</i> , 1998 , 120, 5771-5782	16.4	85
18	Application of the RESP Methodology in the Parametrization of Organic Solvents. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 8070-8079	3.4	421
17	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, 9626-30	11.5	99
16	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	16.4	35

15	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		156
14	Application of Free Energy Perturbation Calculations to the Tennis Ball Dimer: Why Is CF ₄ Not Encapsulated by This Host?. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 10779-10783		15
13	Calculation of Ionization Potentials and C-H Bond Dissociation Energies of Toluene Derivatives. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2950-2956		54
12	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> , 1996 , 25, 315-34	4.2	80
11	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	16.4	10990
10	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		14
9	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	16.4	659
8	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		7
7	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	3.5	32
6	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	2.3	1
5	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	2.1	2
4	On the cavity model for solvent shifts of excited states - a critical appraisal. <i>Computational and Theoretical Chemistry</i> , 1992 , 276, 279-297		13
3	The calculation of solvatochromic shifts: the n- π^* transition of acetone. <i>Chemical Physics Letters</i> , 1992 , 191, 33-37	2.5	61
2	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	1.8	19
1	Assessing the accuracy of octanol-water partition coefficient predictions in the SAMPL6 Part II logPChallenge		2