

Frank C Pickard Iv

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.

31
papers

969
citations

18
h-index

31
g-index

32
ext. papers

1,076
ext. citations

5.5
avg, IF

3.99
L-index

#	Paper	IF	Citations
31	Kinetic Modeling of API Oxidation: (1) The AIBN/HO/CHOH Radical "Soup". <i>Molecular Pharmaceutics</i> , 2021 , 18, 3037-3049	5.6	5
30	Five Degrees of Separation: Characterization and Temperature Stability Profiles for the Polymorphs of PD-0118057 (Molecule XXIII). <i>Crystal Growth and Design</i> , 2021 , 21, 4435-4444	3.5	1
29	Interactions of Water and Alkanes: Modifying Additive Force Fields to Account for Polarization Effects. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3854-3867	6.4	19
28	Structural Modulation of Human Amylin Protofilaments by Naturally Occurring Mutations. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 5657-5665	3.4	10
27	Comparison of Additive and Polarizable Models with Explicit Treatment of Long-Range Lennard-Jones Interactions Using Alkane Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 948-958	6.4	31
26	A Comparison of QM/MM Simulations with and without the Drude Oscillator Model Based on Hydration Free Energies of Simple Solutes. <i>Molecules</i> , 2018 , 23,	4.8	23
25	An Estimation of Hybrid Quantum Mechanical Molecular Mechanical Polarization Energies for Small Molecules Using Polarizable Force-Field Approaches. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 679-695	6.4	14
24	Absolute binding free energies for octa-acids and guests in SAMPL5 : Evaluating binding free energies for octa-acid and guest complexes in the SAMPL5 blind challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 107-118	4.2	15
23	Machine Learning Force Field Parameters from Ab Initio Data. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4492-4503	6.4	73
22	Mapping the Drude polarizable force field onto a multipole and induced dipole model. <i>Journal of Chemical Physics</i> , 2017 , 147, 161702	3.9	32
21	Absolute binding free energy calculations of CBClip host-guest systems in the SAMPL5 blind challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 71-85	4.2	9
20	An efficient protocol for obtaining accurate hydration free energies using quantum chemistry and reweighting from molecular dynamics simulations. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 4988-4997	3.4	14
19	Calculating distribution coefficients based on multi-scale free energy simulations: an evaluation of MM and QM/MM explicit solvent simulations of water-cyclohexane transfer in the SAMPL5 challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2016 , 30, 989-1006	4.2	20
18	Molecular Multipole Potential Energy Functions for Water. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1833-42	3.4	9
17	Computation of Hydration Free Energies Using the Multiple Environment Single System Quantum Mechanical/Molecular Mechanical Method. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 332-44	6.4	36
16	An empirical extrapolation scheme for efficient treatment of induced dipoles. <i>Journal of Chemical Physics</i> , 2016 , 145, 164101	3.9	24
15	Isotropic periodic sum for multipole interactions and a vector relation for calculation of the Cartesian multipole tensor. <i>Journal of Chemical Physics</i> , 2016 , 145, 164110	3.9	5

14	Blind prediction of distribution in the SAMPL5 challenge with QM based protomer and pK corrections. <i>Journal of Computer-Aided Molecular Design</i> , 2016 , 30, 1087-1100	4.2	24
13	Numerical study on the partitioning of the molecular polarizability into fluctuating charge and induced atomic dipole contributions. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 5865-82	2.8	36
12	Efficient treatment of induced dipoles. <i>Journal of Chemical Physics</i> , 2015 , 143, 074115	3.9	34
11	Predicting hydration free energies with a hybrid QM/MM approach: an evaluation of implicit and explicit solvation models in SAMPL4. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 245-57	4.2	53
10	Web-based computational chemistry education with CHARMMing II: Coarse-grained protein folding. <i>PLoS Computational Biology</i> , 2014 , 10, e1003738	5	5
9	An efficient algorithm for multipole energies and derivatives based on spherical harmonics and extensions to particle mesh Ewald. <i>Journal of Chemical Physics</i> , 2014 , 140, 184101	3.9	41
8	Comparing normal modes across different models and scales: Hessian reduction versus coarse-graining. <i>Journal of Computational Chemistry</i> , 2012 , 33, 2250-75	3.5	12
7	Characterization of the HSiN_HNSi system in its electronic ground state. <i>Journal of Chemical Physics</i> , 2009 , 130, 104301	3.9	10
6	Capture of hydroxymethylene and its fast disappearance through tunnelling. <i>Nature</i> , 2008 , 453, 906-9	50.4	233
5	Efficient and accurate characterization of the Bergman cyclization for several enediynes including an expanded substructure of esperamicin A1. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 16917-34	3.4	14
4	Ortho effect in the Bergman cyclization: electronic and steric effects in hydrogen abstraction by 1-substituted naphthalene 5,8-diradicals. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 2517-26	2.8	43
3	CCSD(T), W1, and other model chemistry predictions for gas-phase deprotonation reactions. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 3122-3128	2.1	26
2	Comparison of model chemistry and density functional theory thermochemical predictions with experiment for formation of ionic clusters of the ammonium cation complexed with water and ammonia; atmospheric implications. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 4905-10	2.8	46
1	Comparison of CBS-QB3, CBS-APNO, G2, and G3 thermochemical predictions with experiment for formation of ionic clusters of hydronium and hydroxide ions complexed with water. <i>Journal of Chemical Physics</i> , 2005 , 122, 024302	3.9	50