

# I-Feng W Kuo

## List of Publications by Citations

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32  
papers

2,086  
citations

20  
h-index

34  
g-index

34  
ext. papers

2,223  
ext. citations

6.8  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
32	Liquid Water from First Principles: Investigation of Different Sampling Approaches. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12990-12998	3.4	309
31	An ab initio molecular dynamics study of the aqueous liquid-vapor interface. <i>Science</i> , <b>2004</b> , 303, 658-60	33.3	299
30	Molecular dynamics simulation of liquid water: hybrid density functionals. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 3685-91	3.4	222
29	Dynamic ionization of water under extreme conditions. <i>Physical Review Letters</i> , <b>2005</b> , 94, 125508	7.4	190
28	Simulating fluid-phase equilibria of water from first principles. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 640-6	2.8	125
27	The Effect of Polarizability for Understanding the Molecular Structure of Aqueous Interfaces. <i>Journal of Chemical Theory and Computation</i> , <b>2007</b> , 3, 2002-10	6.4	107
26	Hydroxide anion at the air-water interface. <i>Chemical Physics Letters</i> , <b>2009</b> , 481, 2-8	2.5	103
25	Bonding in the superionic phase of water. <i>Physical Review Letters</i> , <b>2005</b> , 94, 217801	7.4	95
24	Isobaric-isothermal monte carlo simulations from first principles: application to liquid water at ambient conditions. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1894-901	3.2	93
23	Toward a unified picture of the water self-ions at the air-water interface: a density functional theory perspective. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 8364-72	3.4	77
22	Time-Dependent Properties of Liquid Water: A Comparison of Car-Parrinello and Born-Oppenheimer Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , <b>2006</b> , 2, 1274-81	6.4	72
21	First-principles approaches to the structure and reactivity of atmospherically relevant aqueous interfaces. <i>Chemical Reviews</i> , <b>2006</b> , 106, 1282-304	68.1	66
20	QM/MM metadynamics study of the direct decarboxylation mechanism for orotidine-5-monophosphate decarboxylase using two different QM regions: acceleration too small to explain rate of enzyme catalysis. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 12573-81	3.4	52
19	Spectral signatures of the pentagonal water cluster in bacteriorhodopsin. <i>ChemPhysChem</i> , <b>2008</b> , 9, 2703-7	3.7	31
18	Ultrafast shock initiation of exothermic chemistry in hydrogen peroxide. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 13051-8	2.8	29
17	The high pressure structure and equation of state of 2,6-diamino-3,5-dinitropyrazine-1-oxide (LLM-105) up to 20 GPa: X-ray diffraction measurements and first principles molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 144506	3.9	28
16	Thermal Fluctuations of the Unusually Symmetric and Stable Superoxide Tetrahydrate Complex: An ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 10969-10976	2.8	27

15	HYDROPHOBIC HYDRATION FROM CARBARRINELLO SIMULATIONS. <i>International Journal of Modern Physics B</i> , <b>2004</b> , 18, 1951-1962	1.1	26
14	Toward a Monte Carlo program for simulating vapor-liquid phase equilibria from first principles. <i>Computer Physics Communications</i> , <b>2005</b> , 169, 289-294	4.2	25
13	First-principles high-pressure unreacted equation of state and heat of formation of crystal 2,6-diamino-3, 5-dinitropyrazine-1-oxide (LLM-105). <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 064702	3.9	24
12	Pressure-induced phase transition in 1,3,5-triamino-2,4,6-trinitrobenzene (TATB). <i>Applied Physics Letters</i> , <b>2019</b> , 114, 191901	3.4	14
11	Migration of positively charged defects in $\beta$ -quartz. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	13
10	Effects of pressure on the structure and lattice dynamics of $\beta$ -glycine: a combined experimental and theoretical study. <i>CrystEngComm</i> , <b>2019</b> , 21, 4457-4464	3.3	12
9	Mechanochemical synthesis of glycine oligomers in a virtual rotational diamond anvil cell. <i>Chemical Science</i> , <b>2020</b> , 11, 7760-7771	9.4	11
8	Determination of enthalpies of formation of energetic molecules with composite quantum chemical methods. <i>Chemical Physics Letters</i> , <b>2016</b> , 648, 31-35	2.5	8
7	Determination of the Surface Effects on Sarin Degradation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9631-9635	3.8	7
6	First-principles molecular dynamics simulations of condensed-phase V-type nerve agent reaction pathways and energy barriers. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 3316-22	3.6	5
5	High-Pressure Equation of State of 1,3,5-triamino-2,4,6-trinitrobenzene: Insights into the Monoclinic Phase Transition, Hydrogen Bonding, and Anharmonicity. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 10580-10591	2.8	5
4	Predicted Reaction Mechanisms, Product Speciation, Kinetics, and Detonation Properties of the Insensitive Explosive 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105). <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 1766-1777	2.8	5
3	An Isosymmetric High-Pressure Phase Transition in $\beta$ -Glycylglycine: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 1-10	3.4	4
2	Preparation and optimization of a diverse workload for a large-scale heterogeneous system <b>2019</b> ,		2
1	High-Pressure Investigation of 2,4,6-Trinitro-3-bromoanisole (TNBA): Structural Determination and Piezochromism. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 1176-1187	3.8	