

Tsun-Mei Chang

List of Publications by Year in descending order

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47
papers

2,443
citations

304602

22
h-index

243529

44
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48
all docs

48
docs citations

48
times ranked

2039
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics study of water clusters, liquid, and liquid-vapor interface of water with many-body potentials. <i>Journal of Chemical Physics</i> , 1997, 106, 8149-8159.	1.2	607
2	Recent Advances in Molecular Simulations of Ion Solvation at Liquid Interfaces. <i>Chemical Reviews</i> , 2006, 106, 1305-1322.	23.0	289
3	Molecular Mechanism of Ion Binding to the Liquid/Vapor Interface of Water. <i>Journal of Physical Chemistry B</i> , 2002, 106, 235-238.	1.2	250
4	Molecular dynamics simulations of CCl ₄ -H ₂ O liquid-liquid interface with polarizable potential models. <i>Journal of Chemical Physics</i> , 1996, 104, 6772-6783.	1.2	180
5	Liquid-Vapor Interface of Methanol-Water Mixtures: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5759-5765.	1.2	82
6	Computer Simulation of Chloroform with a Polarizable Potential Model. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3413-3419.	1.2	78
7	Molecular dynamics simulations of liquid, interface, and ionic solvation of polarizable carbon tetrachloride. <i>Journal of Chemical Physics</i> , 1995, 103, 7502-7513.	1.2	75
8	On NO ₃ ⁻ -H ₂ O interactions in aqueous solutions and at interfaces. <i>Journal of Chemical Physics</i> , 2006, 124, 066101.	1.2	65
9	Many-body interactions in liquid methanol and its liquid/vapor interface: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2003, 119, 9851-9857.	1.2	63
10	Structure and Dynamics of N,N-Diethyl-N-methylammonium Triflate Ionic Liquid, Neat and with Water, from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12764-12774.	1.1	58
11	Detailed Study of Potassium Solvation Using Molecular Dynamics Techniques. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4714-4720.	1.2	52
12	Computational Studies of Structures and Dynamics of 1,3-Dimethylimidazolium Salt Liquids and their Interfaces Using Polarizable Potential Models. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2127-2135.	1.1	50
13	Molecular Mechanism of CO ₂ and SO ₂ Molecules Binding to the Air/Liquid Interface of 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid: A Molecular Dynamics Study with Polarizable Potential Models. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14965-14971.	1.2	50
14	Critical exponents for Anderson localization. <i>Journal of Chemical Physics</i> , 1990, 93, 8973-8982.	1.2	47
15	Non-Markovian population and phase relaxation and absorption lineshape for a two-level system strongly coupled to a harmonic quantum bath. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 193, 483-539.	1.2	39
16	Molecular Mechanisms of Hydrogen-Loaded β -Hydroquinone Clathrate. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17291-17295.	1.2	38
17	Ion Solvation in Polarizable Chloroform: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10518-10526.	1.2	33
18	On rotational dynamics of an NH ₄ ⁺ ion in water. <i>Journal of Chemical Physics</i> , 2003, 118, 8813-8820.	1.2	33

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19	Molecular Mechanism of Gas Adsorption into Ionic Liquids: A Molecular Dynamics Study. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 175-181.	2.1	31
20	Correlation length and inverse-participation-ratio exponents and multifractal structure for Anderson localization. <i>Physical Review B</i> , 1990, 42, 8121-8124.	1.1	30
21	Interpreting Vibrational Sum-Frequency Spectra of Sulfur Dioxide at the Air/Water Interface: A Comprehensive Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7245-7249.	1.2	27
22	Computational Investigation of the <i>n</i> -Alkane/Water Interface with Many-Body Potentials: The Effect of Chain Length and Ion Distributions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 783-790.	1.5	27
23	Gibbs ensemble Monte Carlo simulations of coexistence properties of a polarizable potential model of water. <i>Journal of Chemical Physics</i> , 2002, 117, 3522-3523.	1.2	22
24	Solvent immersion imprint lithography. <i>Lab on A Chip</i> , 2014, 14, 2072.	3.1	21
25	Role of Solvents on the Thermodynamics and Kinetics of Forming Frustrated Lewis Pairs. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3312-3319.	2.1	20
26	Development of ions-TIP4P-Ew force fields for molecular processes in bulk and at the aqueous interface using molecular simulations. <i>Journal of Molecular Liquids</i> , 2012, 173, 47-54.	2.3	20
27	Stretching, Packing, and Thermodynamics in Highly Branched Polymer Melts. <i>Macromolecules</i> , 2003, 36, 2544-2552.	2.2	16
28	Computational Studies of Liquid Water and Diluted Water in Carbon Tetrachloride. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1694-1700.	1.1	13
29	Transfer of CH ₄ across the H ₂ O–CCl ₄ liquid-liquid interface with polarizable potential models. <i>Chemical Physics Letters</i> , 1996, 263, 39-45.	1.2	12
30	Transfer of chloroform across the water–carbon tetrachloride liquid–liquid interface. <i>Journal of Chemical Physics</i> , 1998, 108, 818-819.	1.2	12
31	Li ⁺ solvation and kinetics of Li ⁺ –[BF ₄] ⁻ /PF ₆ ⁻ ion pairs in ethylene carbonate. A molecular dynamics study with classical rate theories. <i>Journal of Chemical Physics</i> , 2017, 147, 161709.	1.2	12
32	Structure, Molecular Interactions, and Dynamics of Aqueous [BMIM][BF ₄] Mixtures: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1227-1240.	1.2	12
33	Structures and Growth Mechanisms for Heteroepitaxial fcc(111) Thin Metal Films. <i>The Journal of Physical Chemistry</i> , 1995, 99, 7637-7648.	2.9	11
34	Computational Observation of Pockets of Enhanced Water Concentration at the 1-Octanol/Water Interface. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7785-7791.	1.2	10
35	Mean-field theory of heteroepitaxial thin metal film morphologies. <i>Surface Science</i> , 1994, 318, 187-203.	0.8	9
36	Experimental and Theoretical Study of Molecular Response of Amine Bases in Organic Solvents. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4883-4888.	1.2	9

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37	Solvation of Dimethyl Succinate in a Sodium Hydroxide Aqueous Solution. A Computational Study. Journal of Physical Chemistry B, 2009, 113, 6473-6477.	1.2	8
38	Computational Studies of Load-Dependent Guest Dynamics and Free Energies of Inclusion for CO ₂ in Low-Density p-tert-Butylcalix[4]arene at Loadings up to 2:1. Journal of Physical Chemistry A, 2009, 113, 3369-3374.	1.1	7
39	Molecular processes of ion effects on aqueous nanofilm rupture. Journal of Molecular Liquids, 2014, 193, 139-151.	2.3	7
40	Computational Studies of [bmim][PF ₆]-Alcohol Interfaces with Many-Body Potentials. Journal of Physical Chemistry A, 2014, 118, 7186-7193.	1.1	5
41	Rate theory of solvent exchange and kinetics of Li ⁺ BF ₄ ⁻ /PF ₆ ⁻ ion pairs in acetonitrile. Journal of Chemical Physics, 2016, 145, 094502.	1.2	4
42	On the ratio T ₂ /T ₁ for non-Ohmic spectral densities. Journal of Chemical Physics, 1994, 101, 852-852.	1.2	3
43	Fractal dimension and correlation length exponent for Anderson localization. Journal of Luminescence, 1990, 45, 333-334.	1.5	2
44	Mesoscale Polymer Dissolution Probed by Raman Spectroscopy and Molecular Simulations. Journal of Physical Chemistry B, 2016, 120, 10581-10587.	1.2	2
45	Simple Microfluidic Integration of 3D Optical Sensors Based on Solvent Immersion Lithography. , 2014, , .		1
46	Molecular Perspective of Gas-Liquid Interfaces. , 2018, , 1-40.		1
47	Computational Studies of Liquid Water Interfaces. Springer Series in Cluster Physics, 2003, , 227-247.	0.3	0