Tsun-Mei Chang

List of Publications by Year
in descending order

47	2,443	304602	243529
papers	citations	22 h-index	44 g-index

48	48	48	2039
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure, Molecular Interactions, and Dynamics of Aqueous [BMIM][BF₄] Mixtures: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2021, 125, 1227-1240.	1.2	12
2	Molecular Perspective of Gasâ€“Liquid Interfaces. , 2018, , 1-40.		1
3	Li+ solvation and kinetics of Li+â€“BF4â^'/PF6â^' ion pairs in ethylene carbonate. A molecular dynamics study with classical rate theories. Journal of Chemical Physics, 2017, 147, 161709.	1.2	12
4	Rate theory of solvent exchange and kinetics of Li+ â^' BF4â^'/PF6â^' ion pairs in acetonitrile. Journal of Chemical Physics, 2016, 145, 094502.	1.2	4
5	Mesoscale Polymer Dissolution Probed by Raman Spectroscopy and Molecular Simulations. Journal of Physical Chemistry B, 2016, 120, 10581-10587.	1.2	2
6	Simple Microfluidic Integration of 3D Optical Sensors Based on Solvent Immersion Lithography. , 2014, , .		1
7	Molecular processes of ion effects on aqueous nanofilm rupture. Journal of Molecular Liquids, 2014, 193, 139-151.	2.3	7
8	Solvent immersion imprint lithography. Lab on A Chip, 2014, 14, 2072.	3.1	21
9	Computational Studies of [bmim][PF₆]/n-Alcohol Interfaces with Many-Body Potentials. Journal of Physical Chemistry A, 2014, 118, 7186-7193.	1.1	5
10	Computational Observation of Pockets of Enhanced Water Concentration at the 1-Octanol/Water Interface. Journal of Physical Chemistry B, 2014, 118, 7785-7791.	1.2	10
11	Experimental and Theoretical Study of Molecular Response of Amine Bases in Organic Solvents. Journal of Physical Chemistry B, 2014, 118, 4883-4888.	1.2	9
12	Role of Solvents on the Thermodynamics and Kinetics of Forming Frustrated Lewis Pairs. Journal of Physical Chemistry Letters, 2012, 3, 3312-3319.	2.1	20
13	Development of ions-TIP4P-Ew force fields for molecular processes in bulk and at the aqueous interface using molecular simulations. Journal of Molecular Liquids, 2012, 173, 47-54.	2.3	20
14	Molecular Mechanism of Gas Adsorption into Ionic Liquids: A Molecular Dynamics Study. Journal of Physical Chemistry Letters, 2012, 3, 175-181.	2.1	31
15	Computational Investigation of the n-Alkane/Water Interface with Many-Body Potentials: The Effect of Chain Length and Ion Distributions. Journal of Physical Chemistry C, 2012, 116, 783-790.	1.5	27
16	Structure and Dynamics of N,N-Diethyl-N-methylammonium Triflate Ionic Liquid, Neat and with Water, from Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2010, 114, 12764-12774.	1.1	58
17	Molecular Mechanism of CO₂ and SO₂ Molecules Binding to the Air/Liquid Interface of 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid: A Molecular Dynamics Study with Polarizable Potential Models. Journal of Physical Chemistry B, 2010, 114, 14965-14971.	1.2	50
18	Interpreting Vibrational Sum-Frequency Spectra of Sulfur Dioxide at the Air/Water Interface: A Comprehensive Molecular Dynamics Study. Journal of Physical Chemistry B, 2010, 114, 7245-7249.	1.2	27

#	Article	IF	Citations
19	Computational Studies of Load-Dependent Guest Dynamics and Free Energies of Inclusion for CO2 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
20	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
21	Computational Studies of Structures and Dynamics of 1,3-Dimethylimidazolim Salt Liquids and their Interfaces Using Polarizable Potential Models. Journal of Physical Chemistry A, 2009, 113, 2127-2135.	1.1	50
22	Computational Studies of Liquid Water and Diluted Water in Carbon Tetrachloride. Journal of Physical Chemistry A, 2008, 112, 1694-1700.	1.1	13
23	Recent Advances in Molecular Simulations of Ion Solvation at Liquid Interfaces. Chemical Reviews, 2006, 106, 1305-1322.	23.0	289
24	Molecular Mechanisms of Hydrogen-Loaded Î²-Hydroquinone Clathrate. Journal of Physical Chemistry B, 2006, 110, 17291-17295.	1.2	38
25	On NO3â^'â€“H2O interactions in aqueous solutions and at interfaces. Journal of Chemical Physics, 2006, 124, 066101.	1.2	65
26	Liquidâ^'Vapor Interface of Methanolâ^'Water Mixtures:Â A Molecular Dynamics Study. Journal of Physical Chemistry B, 2005, 109, 5759-5765.	1.2	82
27	Stretching, Packing, and Thermodynamics in Highly Branched Polymer Melts. Macromolecules, 2003, 36, 2544-2552.	2.2	16
28	Many-body interactions in liquid methanol and its liquid/vapor interface: A molecular dynamics study. Journal of Chemical Physics, 2003, 119, 9851-9857.	1.2	63
29	On rotational dynamics of an NH4+ ion in water. Journal of Chemical Physics, 2003, 118, 8813-8820.	1.2	33
30	Computational Studies of Liquid Water Interfaces. Springer Series in Cluster Physics, 2003, , 227-247.	0.3	0
31	Gibbs ensemble Monte Carlo simulations of coexistence properties of a polarizable potential model of water. Journal of Chemical Physics, 2002, 117, 3522-3523.	1.2	22
32	Molecular Mechanism of Ion Binding to the Liquid/Vapor Interface of Water. Journal of Physical Chemistry B, 2002, 106, 235-238.	1.2	250
33	Detailed Study of Potassium Solvation Using Molecular Dynamics Techniques. Journal of Physical Chemistry B, 1999, 103, 4714-4720.	1.2	52
34	Transfer of chloroform across the waterâ€“carbon tetrachloride liquidâ€“liquid interface. Journal of Chemical Physics, 1998, 108, 818-819.	1.2	12
35	Ion Solvation in Polarizable Chloroform:â€‰ A Molecular Dynamics Study. Journal of Physical Chemistry B, 1997, 101, 10518-10526.	1.2	33
36	Molecular dynamics study of water clusters, liquid, and liquidâ€“vapor interface of water with many-body potentials. Journal of Chemical Physics, 1997, 106, 8149-8159.	1.2	607

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37	Computer Simulation of Chloroform with a Polarizable Potential Model. Journal of Physical Chemistry B, 1997, 101, 3413-3419.	1.2	78
38	Transfer of CH4 across the H2Oî—¸CCl4 liquid-liquid interface with polarizable potential models. Chemical Physics Letters, 1996, 263, 39-45.	1.2	12
39	Molecular dynamics simulations of CCl4â€“H2O liquidâ€“liquid interface with polarizable potential models. Journal of Chemical Physics, 1996, 104, 6772-6783.	1.2	180
40	Structures and Growth Mechanisms for Heteroepitaxial fcc(111) Thin Metal Films. The Journal of Physical Chemistry, 1995, 99, 7637-7648.	2.9	11
41	Molecular dynamics simulations of liquid, interface, and ionic solvation of polarizable carbon tetrachloride. Journal of Chemical Physics, 1995, 103, 7502-7513.	1.2	75
42	On the ratio T2/T1 for nonâ€Ohmic spectral densities. Journal of Chemical Physics, 1994, 101, 852-852.	1.2	3
43	Mean-field theory of heteroepitaxial thin metal film morphologies. Surface Science, 1994, 318, 187-203.	0.8	9
44	Non-Markovian population and phase relaxation and absorption lineshape for a two-level system strongly coupled to a harmonic quantum bath. Physica A: Statistical Mechanics and Its Applications, 1993, 193, 483-539.	1.2	39
45	Fractal dimension and correlation length exponent for Anderson localization. Journal of Luminescence, 1990, 45, 333-334.	1.5	2
46	Correlation length and inverse-participation-ratio exponents and multifractal structure for Anderson localization. Physical Review B, 1990, 42, 8121-8124.	1.1	30
47	Critical exponents for Anderson localization. Journal of Chemical Physics, 1990, 93, 8973-8982.	1.2	47