## Ming-Liang Wang

## List of Publications by Citations

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70 1,706 4.2 4.36 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
67	Product rotational polarization in the photoinitiated bimolecular reaction A+BC-ÄB+C on attractive, mixed and repulsive surfaces. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 5446-5454	3.9	226
66	Product Rotational Polarization in Photo-initiated Bimolecular Reactions A+BC: Dependence on the Character of the Potential Energy Surface for Different Mass Combinations. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 10204-10210	2.8	178
65	Designing molecules by optimizing potentials. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 32	28±3624	121
64	Application of semirigid vibrating rotor target model to reaction of H+CH4-JCH3+H2. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 1802-1806	3.9	94
63	Reaction dynamics of the Sr(3RJ) + RI -jSrI* + R (R = CH3, CH3CH2) systems: rotational alignment, electronic state branching ratio and vibrational state population of products. <i>Chemical Physics Letters</i> , <b>1997</b> , 278, 307-312	2.5	55
62	Improving the electrochemical performance of high voltage spinel cathode at elevated temperature by a novel electrolyte additive. <i>Journal of Power Sources</i> , <b>2016</b> , 303, 41-48	8.9	53
61	Generalized semirigid vibrating rotor target model for atompoly reaction: Inclusion of umbrella mode for H+CH4 reaction. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 3081-3087	3.9	49
60	Nuclear quantum effects on an enzyme-catalyzed reaction with reaction path potential: proton transfer in triosephosphate isomerase. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 124516	3.9	46
59	Theoretical studies of scattering-angle resolved product rotational alignment for the reaction of Cl with vibrationally excited methane. <i>Chemical Physics Letters</i> , <b>1999</b> , 301, 303-308	2.5	46
58	Stereodynamics and rovibrational effect for H+CH4(v,j,K,n)-H2+CH3 reaction. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 6497-6504	3.9	42
57	Molecular dynamics study on ion diffusion in LiFePO4 olivine materials. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 5406-10	2.8	40
56	Application of Semirigid Vibrating Rotor Target Model to the Reaction of O(3P) + CH4 -jCH3 + OHD <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 2530-2534	2.8	40
55	Product rotational polarization: Stereodynamics of the reaction Cl(2P3/2)+CD4(v=0,j=0)-DCl(v?=0,j?=1)+CD3. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 3710-3716	3.9	37
54	Preparation, Stabilization and Carbonization of a Novel Polyacrylonitrile-Based Carbon Fiber Precursor. <i>Polymers</i> , <b>2019</b> , 11,	4.5	36
53	Characterization of 4,4@biphenylene-silicas and a chiral sensor for silicas. <i>Chemical Communications</i> , <b>2011</b> , 47, 11495-7	5.8	30
52	Quantum dynamics study of isotope effect for H+CH4 reaction using the SVRT model. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 9266-9271	3.9	25
51	Skin-Inspired Double-Hydrophobic-Coating Encapsulated Hydrogels with Enhanced Water Retention Capacity. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102433	15.6	23

## (2010-2020)

50	Selective etching of C-N bonds for preparation of porous carbon with ultrahigh specific surface area and superior capacitive performance. <i>Energy Storage Materials</i> , <b>2020</b> , 24, 486-494	19.4	21
49	Rank-ordering protein-ligand binding affinity by a quantum mechanics/molecular mechanics/Poisson-Boltzmann-surface area model. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 026101	3.9	19
48	First principles quantum dynamics study reveals subtle resonance in polyatomic reaction: The case of F + CH4 -jHF + CH3. <i>Chemical Physics Letters</i> , <b>2006</b> , 424, 243-246	2.5	19
47	Semirigid vibrating rotor target calculation for reaction H+HOD-H2+OD, HD+OH. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 7013-7017	3.9	19
46	Chirality of the 1,4-phenylene-silica nanoribbons at the nano and angstrom levels. <i>Nanotechnology</i> , <b>2013</b> , 24, 035603	3.4	18
45	Transmission coefficient calculation for proton transfer in triosephosphate isomerase based on the reaction path potential method. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 101-7	3.9	17
44	Calculation of solvation free energy from quantum mechanical charge density and continuum dielectric theory. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 4873-9	2.8	16
43	Chiral carbonaceous nanotubes containing twisted carbonaceous nanoribbons, prepared by the carbonization of chiral organic self-assemblies. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 2866-71	4.5	15
42	Rotational alignment from the Sr(3PJ)+CH2ClI chemiluminescent reaction. <i>Chemical Physics</i> , <b>1998</b> , 238, 481-485	2.3	15
41	Rotational alignment from the reactions and CHCl3. <i>Chemical Physics</i> , <b>1998</b> , 236, 387-392	2.3	14
40	Self-assembly of polymer and molybdenum oxide into lamellar hybrid materials. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 320, 445-51	9.3	14
39	Time-dependent quantum wave packet study of H+HCN-H2+CN reaction. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 172-176	3.9	14
38	A novel boron-based ionic liquid electrolyte for high voltage lithium-ion batteries with outstanding cycling stability. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 111-120	6.7	14
37	DFT study on the ionic cyclization mechanism of copolymers of acrylonitrile-itaconic acid: Direct or autocatalytic?. <i>Chemical Physics Letters</i> , <b>2017</b> , 687, 158-162	2.5	13
36	New comonomer for polyacrylonitrile-based carbon fiber: Density functional theory study and experimental analysis. <i>Polymer</i> , <b>2018</b> , 153, 369-377	3.9	11
35	Nonradiative dynamics determined by charge transfer induced hydrogen bonding: a combined femtosecond time-resolved fluorescence and density functional theoretical study of methyl dimethylaminobenzoate in water. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 1240-1251	3.6	11
34	DFT Study of the Proton Transfer in the Urethane Formation between 2,4-Diisocyanatotoluene and Methanol. <i>Bulletin of the Chemical Society of Japan</i> , <b>2013</b> , 86, 255-265	5.1	10
33	SUPPLEMENTING THE PBSA APPROACH WITH QUANTUM MECHANICS TO STUDY THE BINDING BETWEEN CDK2 AND N2-SUBSTITUTED O6-CYCLOHEXYLMETHOXYGUANINE INHIBITORS. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2010</b> , 09, 543-559	1.8	10

32	Theoretical Studies of the Relative Cross Sections and Transition State Spectroscopy of Cl+Na2(3 I v? II 9) -j[NaNaCl]I*-jNaCl+Na*. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1997</b> , 101, 1527-1530		10
31	Efficient quantum mechanical calculation of solvation free energies based on density functional theory, numerical atomic orbitals and PoissonBoltzmann equation. <i>Chemical Physics Letters</i> , <b>2007</b> , 442, 464-467	2.5	10
30	RANK-ORDERING THE BINDING AFFINITY FOR FKBP12 AND H1N1 NEURAMINIDASE INHIBITORS IN THE COMBINATION OF A PROTEIN MODEL WITH DENSITY FUNCTIONAL THEORY. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2011</b> , 10, 541-565	1.8	9
29	Comparison of quantum and mixed quantum lassical semirigid vibrating rotor target studies for isotopic reactions H(D,T)+CH4-HH(D,T)+CH3. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 9455-9460	3.9	9
28	Effect of entrance channel topology on reaction dynamics: O(3P) + CH4 -jCH3 + OH. <i>Chemical Physics Letters</i> , <b>2005</b> , 410, 115-119	2.5	9
27	DFT Study of the Catalytic Mechanism for Urethane Formation in the Presence of Basic Catalyst 1,4-diazabicyclo[2.2.2]octane. <i>Communications in Computational Chemistry</i> , <b>2014</b> , 2, 22-35		8
26	A chirality indicator for the surfaces of the silica nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 5732-5	1.3	7
25	Rotational alignment of products from NOCl+Sr chemiluminescent reaction. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 1819-1823	3.9	7
24	Transition-state spectroscopy of Cl+Na2-[NaNaCl] P-NaCl+Na*.: Theoretical model. <i>Chemical Physics Letters</i> , <b>1998</b> , 284, 200-204	2.5	6
23	Quantum Dynamics Study of Torsional Excitation of Glycine in Collision with Hydrogen Atom on ab Initio Potential Energy Surface <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 7106-7111	2.8	6
22	A long lasting sunscreen controversy of 4-aminobenzoic acid and 4-dimethylaminobenzaldehyde derivatives resolved by ultrafast spectroscopy combined with density functional theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8006-8020	3.6	5
21	Proton Transfer in Reaction between 2,4-Diisocyanatotoluene and Amine Compounds. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , <b>2014</b> , 30, 34-42	3.8	5
20	Photocleavage of DNA and adeninethymine inclined binding by a novel ruthenium(II) complex with 3,4-dibromo-imidazo[4,5-f][1,10]phenanthroline ligand. <i>Inorganic Chemistry Communication</i> , <b>2015</b> , 55, 30-35	3.1	5
19	Enhanced Thermoelectric Performance of a Donor Acceptor-Based Two-Dimensional Conjugated Polymer with High Crystallinity. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 4662-4671	6.1	5
18	InBitu Characterization and Cure Kinetics in NEPE Propellant/ HTPB Liner Interface by Microscopic FT-IR. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2017</b> , 42, 410-416	1.7	4
17	Optical activity of SiC nanoparticles prepared from single-handed helical 4,4?-biphenylene-bridged polybissilsesquioxane nanotubes. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 8424-8429	3.6	4
16	Investigation of the Cyclization Mechanism of Poly(acrylonitrile-co-ethylenesulfonic acid) Copolymer during Thermal Oxidative Stabilization by In Situ Infrared Spectroscopy. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 9519-9531	3.9	4
15	Mixed quantum-classical study of energy transfer between H2O and a dipeptide. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 11152-11158	3.9	4

## LIST OF PUBLICATIONS

14	Effective degradation of refractory nitrobenzene in water by the natural 4-hydroxycoumarin under solar illumination. <i>Chemosphere</i> , <b>2019</b> , 215, 199-205	8.4	4	
13	Cyclization mechanism and kinetics of poly(acrylonitrile-co-2-acrylamido-2-methylpropane sulfonic acid) copolymer investigated by FTIR spectroscopy. <i>Polymer Testing</i> , <b>2021</b> , 93, 106969	4.5	4	
12	First principle simulation on oxidation mechanism of diethyl ether by nitrogen dioxide. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2015</b> , 14, 1550020	1.8	3	
11	DENSITY FUNCTIONAL THEORY/TIME-DEPENDENT DENSITY FUNCTIONAL THEORY STUDY ON THE STRUCTURES AND SOLVENT EFFECTS ON THE ELECTRONIC SPECTRA OF Ru(II) POLYPYRIDYL COMPLEXES: $[Ru(bpy)2(L)]2+(L=CNOIP, HPIP, DPPZ, TAPIP)$ . Journal of Theoretical and	1.8	3	
10	Construction of an implicit membrane environment for the lattice Monte Carlo simulation of transmembrane protein. <i>Biophysical Chemistry</i> , <b>2010</b> , 147, 35-41	3.5	3	
9	Mixed quantum-classical study of energy transfer in a Na+ collision with a peptide. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 7846-7856	3.9	3	
8	Catalytic Effects of Water Clusters on the Hydrolysis of Toluene-2,4-diisocyanate: A DFT Study. <i>Bulletin of the Chemical Society of Japan</i> , <b>2016</b> , 89, 74-91	5.1	2	
7	A DFT study on the mechanism of reaction between 2, 4-diisocyanatotolune and cellulose. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2016</b> , 15, 1650012	1.8	2	
6	DFT study on the hydrolysis of metsulfuron-methyl: A sulfonylurea herbicide. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2018</b> , 17, 1850050	1.8	2	
5	Feasibility of Predicting Static Dielectric Constants of Polymer Materials: A Density Functional Theory Method. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2	
4	Ab initio quantum dynamics study of rotationally inelastic scattering of glycine by hydrogen atom. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 2716	3.9	1	
3	Long living excited state of protonated adenosine unveiled by ultrafast fluorescence spectroscopy and density functional theoretical study. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 6472-6480	3.6	1	
2	MIXED QUANTUM-CLASSICAL SEMI-RIGID VIBRATING ROTOR TARGET MODEL FOR ATOM-POLYATOM REACTION: O(3P) + CH4-jCH3 + OH. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2003</b> , 02, 351-356	1.8		
1	High Activity and Easily Hydrolyzable Sulfonylurea Inhibitor Design Based on Density Functional Theory Calculations. <i>Journal of Computational Biophysics and Chemistry</i> , <b>2021</b> , 20, 41-52			