

Ming-Liang Wang

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.

67

papers

1,572

citations

19

h-index

38

g-index

70

ext. papers

1,706

ext. citations

4.2

avg, IF

4.36

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 67 | High Activity and Easily Hydrolyzable Sulfonylurea Inhibitor Design Based on Density Functional Theory Calculations. <i>Journal of Computational Biophysics and Chemistry</i> , 2021 , 20, 41-52 | | |
| 66 | Skin-Inspired Double-Hydrophobic-Coating Encapsulated Hydrogels with Enhanced Water Retention Capacity. <i>Advanced Functional Materials</i> , 2021 , 31, 2102433 | 15.6 | 23 |
| 65 | Enhanced Thermoelectric Performance of a Donor-Acceptor-Based Two-Dimensional Conjugated Polymer with High Crystallinity. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4662-4671 | 6.1 | 5 |
| 64 | Cyclization mechanism and kinetics of poly(acrylonitrile-co-2-acrylamido-2-methylpropane sulfonic acid) copolymer investigated by FTIR spectroscopy. <i>Polymer Testing</i> , 2021 , 93, 106969 | 4.5 | 4 |
| 63 | Long living excited state of protonated adenosine unveiled by ultrafast fluorescence spectroscopy and density functional theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6472-6480 | 3.6 | 1 |
| 62 | Feasibility of Predicting Static Dielectric Constants of Polymer Materials: A Density Functional Theory Method. <i>Polymers</i> , 2021 , 13, | 4.5 | 2 |
| 61 | Investigation of the Cyclization Mechanism of Poly(acrylonitrile-co-ethylenesulfonic acid) Copolymer during Thermal Oxidative Stabilization by In Situ Infrared Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9519-9531 | 3.9 | 4 |
| 60 | 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> , 2020 , 22, 8006-8020 | 3.6 | 5 |
| 59 | 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> , 2020 , 24, 486-494 | 19.4 | 21 |
| 58 | Preparation, Stabilization and Carbonization of a Novel Polyacrylonitrile-Based Carbon Fiber Precursor. <i>Polymers</i> , 2019 , 11, | 4.5 | 36 |
| 57 | Effective degradation of refractory nitrobenzene in water by the natural 4-hydroxycoumarin under solar illumination. <i>Chemosphere</i> , 2019 , 215, 199-205 | 8.4 | 4 |
| 56 | New comonomer for polyacrylonitrile-based carbon fiber: Density functional theory study and experimental analysis. <i>Polymer</i> , 2018 , 153, 369-377 | 3.9 | 11 |
| 55 | 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> , 2018 , 20, 1240-1251 | 3.6 | 11 |
| 54 | DFT study on the hydrolysis of metsulfuron-methyl: A sulfonylurea herbicide. <i>Journal of Theoretical and Computational Chemistry</i> , 2018 , 17, 1850050 | 1.8 | 2 |
| 53 | A novel boron-based ionic liquid electrolyte for high voltage lithium-ion batteries with outstanding cycling stability. <i>Electrochimica Acta</i> , 2018 , 283, 111-120 | 6.7 | 14 |
| 52 | In Situ Characterization and Cure Kinetics in NEPE Propellant/ HTPB Liner Interface by Microscopic FT-IR. <i>Propellants, Explosives, Pyrotechnics</i> , 2017 , 42, 410-416 | 1.7 | 4 |
| 51 | DFT study on the ionic cyclization mechanism of copolymers of acrylonitrile-itaconic acid: Direct or autocatalytic?. <i>Chemical Physics Letters</i> , 2017 , 687, 158-162 | 2.5 | 13 |

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| 50 | 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> , 2016 , 89, 74-91 | 5.1 | 2 |
| 49 | Improving the electrochemical performance of high voltage spinel cathode at elevated temperature by a novel electrolyte additive. <i>Journal of Power Sources</i> , 2016 , 303, 41-48 | 8.9 | 53 |
| 48 | A DFT study on the mechanism of reaction between 2, 4-diisocyanatotoluene and cellulose. <i>Journal of Theoretical and Computational Chemistry</i> , 2016 , 15, 1650012 | 1.8 | 2 |
| 47 | Optical activity of SiC nanoparticles prepared from single-handed helical 4,4'-biphenylene-bridged polybissilsesquioxane nanotubes. <i>New Journal of Chemistry</i> , 2015 , 39, 8424-8429 | 3.6 | 4 |
| 46 | First principle simulation on oxidation mechanism of diethyl ether by nitrogen dioxide. <i>Journal of Theoretical and Computational Chemistry</i> , 2015 , 14, 1550020 | 1.8 | 3 |
| 45 | Photocleavage of DNA and adenine-thymine 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> , 2015 , 55, 30-35 | 3.1 | 5 |
| 44 | Chiral carbonaceous nanotubes containing twisted carbonaceous nanoribbons, prepared by the carbonization of chiral organic self-assemblies. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2866-71 | 4.5 | 15 |
| 43 | Proton Transfer in Reaction between 2,4-Diisocyanatotoluene and Amine Compounds. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2014 , 30, 34-42 | 3.8 | 5 |
| 42 | 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> , 2014 , 2, 22-35 | | 8 |
| 41 | Chirality of the 1,4-phenylene-silica nanoribbons at the nano and angstrom levels. <i>Nanotechnology</i> , 2013 , 24, 035603 | 3.4 | 18 |
| 40 | 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> , 2013 , 86, 255-265 | 5.1 | 10 |
| 39 | A chirality indicator for the surfaces of the silica nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5732-5 | 1.3 | 7 |
| 38 | Characterization of 4,4'-biphenylene-silicas and a chiral sensor for silicas. <i>Chemical Communications</i> , 2011 , 47, 11495-7 | 5.8 | 30 |
| 37 | 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> , 2011 , 10, 541-565 | 1.8 | 9 |
| 36 | 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> , 2010 , 09, 543-559 | 1.8 | 10 |
| 35 | Construction of an implicit membrane environment for the lattice Monte Carlo simulation of transmembrane protein. <i>Biophysical Chemistry</i> , 2010 , 147, 35-41 | 3.5 | 3 |
| 34 | 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). <i>Journal of Theoretical and Computational Chemistry</i> , 2009 , 08, 631-646 | 1.8 | 3 |
| 33 | Molecular dynamics study on ion diffusion in LiFePO ₄ olivine materials. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 5406-10 | 2.8 | 40 |

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| 32 | Self-assembly of polymer and molybdenum oxide into lamellar hybrid materials. <i>Journal of Colloid and Interface Science</i> , 2008 , 320, 445-51 | 9.3 | 14 |
| 31 | Efficient quantum mechanical calculation of solvation free energies based on density functional theory, numerical atomic orbitals and Poisson-Boltzmann equation. <i>Chemical Physics Letters</i> , 2007 , 442, 464-467 | 2.5 | 10 |
| 30 | Rank-ordering protein-ligand binding affinity by a quantum mechanics/molecular mechanics/Poisson-Boltzmann-surface area model. <i>Journal of Chemical Physics</i> , 2007 , 126, 026101 | 3.9 | 19 |
| 29 | Nuclear quantum effects on an enzyme-catalyzed reaction with reaction path potential: proton transfer in triosephosphate isomerase. <i>Journal of Chemical Physics</i> , 2006 , 124, 124516 | 3.9 | 46 |
| 28 | Calculation of solvation free energy from quantum mechanical charge density and continuum dielectric theory. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4873-9 | 2.8 | 16 |
| 27 | Designing molecules by optimizing potentials. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3228-3241 | 13.4 | 121 |
| 26 | First principles quantum dynamics study reveals subtle resonance in polyatomic reaction: The case of $F + CH_4 \rightarrow HF + CH_3$. <i>Chemical Physics Letters</i> , 2006 , 424, 243-246 | 2.5 | 19 |
| 25 | Effect of entrance channel topology on reaction dynamics: $O(3P) + CH_4 \rightarrow CH_3 + OH$. <i>Chemical Physics Letters</i> , 2005 , 410, 115-119 | 2.5 | 9 |
| 24 | Transmission coefficient calculation for proton transfer in triosephosphate isomerase based on the reaction path potential method. <i>Journal of Chemical Physics</i> , 2004 , 121, 101-7 | 3.9 | 17 |
| 23 | MIXED QUANTUM-CLASSICAL SEMI-RIGID VIBRATING ROTOR TARGET MODEL FOR ATOM-POLYATOM REACTION: $O(3P) + CH_4 \rightarrow CH_3 + OH$. <i>Journal of Theoretical and Computational Chemistry</i> , 2003 , 02, 351-356 | 1.8 | |
| 22 | 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> , 2003 , 107, 7106-7111 | 2.8 | 6 |
| 21 | Quantum dynamics study of isotope effect for $H+CH_4$ reaction using the SVRT model. <i>Journal of Chemical Physics</i> , 2003 , 118, 9266-9271 | 3.9 | 25 |
| 20 | Ab initio quantum dynamics study of rotationally inelastic scattering of glycine by hydrogen atom. <i>Journal of Chemical Physics</i> , 2003 , 118, 2716 | 3.9 | 1 |
| 19 | Mixed quantum-classical study of energy transfer between H_2O and a dipeptide. <i>Journal of Chemical Physics</i> , 2003 , 119, 11152-11158 | 3.9 | 4 |
| 18 | Comparison of quantum and mixed quantum-classical semirigid vibrating rotor target studies for isotopic reactions $H(D,T)+CH_4 \rightarrow H(D,T)+CH_3$. <i>Journal of Chemical Physics</i> , 2003 , 119, 9455-9460 | 3.9 | 9 |
| 17 | Mixed quantum-classical study of energy transfer in a Na^+ collision with a peptide. <i>Journal of Chemical Physics</i> , 2003 , 118, 7846-7856 | 3.9 | 3 |
| 16 | Time-dependent quantum wave packet study of $H+HCN \rightarrow H_2+CN$ reaction. <i>Journal of Chemical Physics</i> , 2002 , 117, 172-176 | 3.9 | 14 |
| 15 | Stereodynamics and rovibrational effect for $H+CH_4(v,j,K,n) \rightarrow H_2+CH_3$ reaction. <i>Journal of Chemical Physics</i> , 2002 , 116, 6497-6504 | 3.9 | 42 |

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| 14 | Generalized semirigid vibrating rotor target model for atom-poly reaction: Inclusion of umbrella mode for H+CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2002 , 117, 3081-3087 | 3.9 | 49 |
| 13 | Semirigid vibrating rotor target calculation for reaction H+HOD-H ₂ +OD, HD+OH. <i>Journal of Chemical Physics</i> , 2001 , 114, 7013-7017 | 3.9 | 19 |
| 12 | Application of Semirigid Vibrating Rotor Target Model to the Reaction of O(3P) + CH ₄ -> CH ₃ + OH | 2.8 | 40 |
| 11 | Application of semirigid vibrating rotor target model to reaction of H+CH ₄ ->CH ₃ +H ₂ . <i>Journal of Chemical Physics</i> , 2000 , 113, 1802-1806 | 3.9 | 94 |
| 10 | Product rotational polarization: Stereodynamics of the reaction Cl(2P _{3/2})+CD ₄ (v=0,j=0)->DCl(v'=0,j'=1)+CD ₃ . <i>Journal of Chemical Physics</i> , 2000 , 112, 3710-3716 | 3.9 | 37 |
| 9 | Theoretical studies of scattering-angle resolved product rotational alignment for the reaction of Cl with vibrationally excited methane. <i>Chemical Physics Letters</i> , 1999 , 301, 303-308 | 2.5 | 46 |
| 8 | Transition-state spectroscopy of Cl+Na ₂ -[NaNaCl]->NaCl+Na*. Theoretical model. <i>Chemical Physics Letters</i> , 1998 , 284, 200-204 | 2.5 | 6 |
| 7 | Rotational alignment from the reactions and CHCl ₃ . <i>Chemical Physics</i> , 1998 , 236, 387-392 | 2.3 | 14 |
| 6 | Rotational alignment from the Sr(3P _J)+CH ₂ Cl chemiluminescent reaction. <i>Chemical Physics</i> , 1998 , 238, 481-485 | 2.3 | 15 |
| 5 | 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> , 1998 , 102, 10204-10210 | 2.8 | 178 |
| 4 | Rotational alignment of products from NOCl+Sr chemiluminescent reaction. <i>Journal of Chemical Physics</i> , 1998 , 109, 1819-1823 | 3.9 | 7 |
| 3 | Product rotational polarization in the photoinitiated bimolecular reaction A+BC->AB+C on attractive, mixed and repulsive surfaces. <i>Journal of Chemical Physics</i> , 1998 , 109, 5446-5454 | 3.9 | 226 |
| 2 | Theoretical Studies of the Relative Cross Sections and Transition State Spectroscopy of Cl+Na ₂ (3P _J v'=0)->[NaNaCl]->NaCl+Na*. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997 , 101, 1527-1530 | | 10 |
| 1 | Reaction dynamics of the Sr(3R _J) + RI ->SrI* + R (R = CH ₃ , CH ₃ CH ₂) systems: rotational alignment, electronic state branching ratio and vibrational state population of products. <i>Chemical Physics Letters</i> , 1997 , 278, 307-312 | 2.5 | 55 |