

Xuefei Xu

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.

58
papers

2,341
citations

24
h-index

48
g-index

66
ext. papers

2,739
ext. citations

6.2
avg, IF

5.35
L-index

#	Paper	IF	Citations
58	TUMME: Tsinghua University Minnesota Master Equation program. <i>Computer Physics Communications</i> , 2022 , 270, 108140	4.2	2
57	Large Anharmonic Effects on Tunneling and Kinetics: Reaction of Propane with Muonium. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4154-4159	6.4	3
56	A chemically consistent rate constant for the reaction of nitrogen dioxide with the oxygen atom. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 585-596	3.6	1
55	Single atom catalysts supported on N-doped graphene toward fast kinetics in LiS batteries: a theoretical study. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12225-12235	13	18
54	A kinetics study on hydrogen abstraction reactions of cyclopentane by hydrogen, methyl, and ethyl radicals. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 7333-7342	3.6	1
53	Energy Dependence of Ensemble-Averaged Energy Transfer Moments and Its Effect on Competing Decomposition Reactions. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 6303-6313	2.8	0
52	Water Catalysis of the Reaction of Methanol with OH Radical in the Atmosphere is Negligible. <i>Angewandte Chemie</i> , 2020 , 132, 10918-10922	3.6	5
51	Water Catalysis of the Reaction of Methanol with OH Radical in the Atmosphere is Negligible. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10826-10830	16.4	7
50	Efficient Heteronuclear Diatom Electrocatalyst for Nitrogen Reduction Reaction: Pd-Nb Diatom Supported on Black Phosphorus. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56987-56994	9.5	19
49	Understanding the Separation Mechanism of C ₂ H ₆ /C ₂ H ₄ on Zeolitic Imidazolate Framework ZIF-7 by Periodic DFT Investigations. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 256-266	3.8	3
48	Predicting Bond Dissociation Energies and Bond Lengths of Coordinatively Unsaturated Vanadium-Ligand Bonds. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9757-9770	2.8	3
47	Low-Pressure Limit of Competitive Unimolecular Reactions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16064-16071	16.4	2
46	Accurate entropy calculation for large flexible hydrocarbons using a multi-structural 2-dimensional torsion method. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10003-10010	3.6	7
45	Quantum Effects on H Diffusion in Zeolite RHO: Inverse Kinetic Isotope Effect for Sieving. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13635-13642	16.4	7
44	Kinetics of the Toluene Reaction with OH Radical. <i>Research</i> , 2019 , 2019, 5373785	7.8	8
43	Computational kinetics of the hydrogen abstraction reactions of n-propanol and iso-propanol by OH radical. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24458-24468	3.6	8
42	Kinetics of the Methanol Reaction with OH at Interstellar, Atmospheric, and Combustion Temperatures. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2906-2918	16.4	61

41	Predicting bond dissociation energy and bond length for bimetallic diatomic molecules: a challenge for electronic structure theory. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 5839-5854	3.6	16
40	Computational Kinetics by Variational Transition-State Theory with Semiclassical Multidimensional Tunneling: Direct Dynamics Rate Constants for the Abstraction of H from CHO ₂ H by Triplet Oxygen Atoms. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1693-1707	2.8	9
39	Nonmonotonic Temperature Dependence of the Pressure-Dependent Reaction Rate Constant and Kinetic Isotope Effect of Hydrogen Radical Reaction with Benzene Calculated by Variational Transition-State Theory. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 9033-9044	2.8	8
38	Benchmark Calculations for Bond Dissociation Enthalpies of Unsaturated Methyl Esters and the Bond Dissociation Enthalpies of Methyl Linolenate. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4025-36	2.8	36
37	Computational simulation and interpretation of the low-lying excited electronic states and electronic spectrum of thioanisole. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20093-9	3.6	14
36	Ultraviolet Absorption Spectrum of Malonaldehyde in Water Is Dominated by Solvent-Stabilized Conformations. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8026-9	16.4	15
35	Do Practical Standard Coupled Cluster Calculations Agree Better than Kohn-Sham Calculations with Currently Available Functionals When Compared to the Best Available Experimental Data for Dissociation Energies of Bonds to 3d Transition Metals?. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2036-52	6.4	91
34	Nonintuitive Diabatic Potential Energy Surfaces for Thioanisole. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3352-9	6.4	15
33	Density Functional Theory of the Water Splitting Reaction on Fe(0): Comparison of Local and Nonlocal Correlation Functionals. <i>ACS Catalysis</i> , 2015 , 5, 2070-2080	13.1	25
32	Anchor Points Reactive Potential for Bond-Breaking Reactions. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 924-33	6.4	15
31	Density Functional Theory of Open-Shell Systems. The 3d-Series Transition-Metal Atoms and Their Cations. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 102-21	6.4	55
30	Configuration Interaction-Corrected Tamm-Dancoff Approximation: A Time-Dependent Density Functional Method with the Correct Dimensionality of Conical Intersections. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 322-8	6.4	40
29	Diabatization based on the dipole and quadrupole: the DQ method. <i>Journal of Chemical Physics</i> , 2014 , 141, 114104	3.9	50
28	Photodissociation dynamics of phenol: multistate trajectory simulations including tunneling. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16378-86	16.4	88
27	Full-dimensional potentials and state couplings and multidimensional tunneling calculations for the photodissociation of phenol. <i>Chemical Science</i> , 2014 , 5, 4661-4680	9.4	80
26	Testing Noncollinear Spin-Flip, Collinear Spin-Flip, and Conventional Time-Dependent Density Functional Theory for Predicting Electronic Excitation Energies of Closed-Shell Atoms. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2070-84	6.4	28
25	Army ants tunneling for classical simulations. <i>Chemical Science</i> , 2014 , 5, 2091-2099	9.4	22
24	Quantum mechanical fragment methods based on partitioning atoms or partitioning coordinates. <i>Accounts of Chemical Research</i> , 2014 , 47, 2731-8	24.3	20

23	Direct diabaticization of electronic states by the fourfold-way: Including dynamical correlation by multi-configuration quasidegenerate perturbation theory with complete active space self-consistent-field diabatic molecular orbitals. <i>Chemical Physics Letters</i> , 2013 , 573, 84-89	2.5	37
22	Adsorption on Fe-MOF-74 for C ₁₀ H ₈ Hydrocarbon Separation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12648-12660	3.8	94
21	Diabatic Molecular Orbitals, Potential Energies, and Potential Energy Surface Couplings by the 4-fold Way for Photodissociation of Phenol. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3612-254	6.4	54
20	Combined Self-Consistent-Field and Spin-Flip Tamm-Dancoff Density Functional Approach to Potential Energy Surfaces for Photochemistry. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 253-8	6.4	41
19	Performance of Effective Core Potentials for Density Functional Calculations on 3d Transition Metals. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 80-90	6.4	52
18	Multi-structural variational transition state theory: kinetics of the 1,5-hydrogen shift isomerization of the 1-butoxyl radical including all structures and torsional anharmonicity. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4204-16	3.6	31
17	Multistructural variational transition state theory: kinetics of the hydrogen abstraction from carbon-2 of 2-methyl-1-propanol by hydroperoxyl radical including all structures and torsional anharmonicity. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 10480-7	2.8	23
16	Thermochemistry of radicals formed by hydrogen abstraction from 1-butanol, 2-methyl-1-propanol, and butanal. <i>Journal of Chemical Physics</i> , 2012 , 137, 104314	3.9	10
15	Accuracy of Effective Core Potentials and Basis Sets for Density Functional Calculations, Including Relativistic Effects, As Illustrated by Calculations on Arsenic Compounds. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2766-79	6.4	58
14	Perspectives on Basis Sets Beautiful: Seasonal Plantings of Diffuse Basis Functions. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 3027-34	6.4	393
13	How Well Can Modern Density Functionals Predict Internuclear Distances at Transition States?. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 1667-76	6.4	140
12	Minimally augmented Karlsruhe basis sets. <i>Theoretical Chemistry Accounts</i> , 2011 , 128, 295-305	1.9	388
11	Methanol triggered ligand flip isomerization in a binuclear copper(I) complex and the luminescence response. <i>Chemical Communications</i> , 2011 , 47, 9179-81	5.8	46
10	Molecular symmetry properties of conical intersections and nonadiabatic coupling terms: theory and quantum chemical demonstration for cyclopenta-2,4-dienimine (C ₅ H ₄ NH). <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2991-3010	2.8	31
9	Electrophilic aromatic substitution: the role of electronically excited states. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 4924-33	2.8	22
8	Photoreactivity of a push-pull merocyanine in static electric fields: a three-state model of isomerization reactions involving conical intersections. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 9779-91 ⁸	2.8	29
7	Ligand- and anion-controlled formation of silver alkynyl oligomers from soluble precursors. <i>Inorganic Chemistry</i> , 2008 , 47, 1877-9	5.1	43
6	INTRAMOLECULAR CHARGE TRANSFER AND PHOTOISOMERIZATION OF THE DCM STYRENE DYE: A THEORETICAL STUDY. <i>Journal of Theoretical and Computational Chemistry</i> , 2008 , 07, 719-736	1.8	10

5	What definitively controls the photochemical activity of methylbenzonitriles and methylanisoles? Insights from theory. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 5775-83	2.8	2
4	Theoretical study on the singlet excited state of pterin and its deactivation pathway. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9255-62	2.8	17
3	Computational characterization of low-lying states and intramolecular charge transfers in N-phenylpyrrole and the planar-rigidized fluorazene. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 1740-8	2.8	20
2	Theoretical study of photoinduced singlet and triplet excited states of 4-dimethylaminobenzonitrile and its derivatives. <i>Journal of Chemical Physics</i> , 2005 , 122, 194305	3.9	15
1	g-C ₃ N ₄ -Supported Metal-Pair Catalysts toward Efficient Electrocatalytic Nitrogen Reduction: A Computational Evaluation. <i>Advanced Theory and Simulations</i> , 2100579	3.5	0