

Minghui Yang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Toward a Comprehensive Understanding of Mode-Specific Dynamics of Polyatomic Reactions: A Full-Dimensional Quantum Dynamics Study of the H + NH ₃ Reaction. <i>Journal of Physical Chemistry A</i> , 2022, 126, 663-669.	2.5	6
2	Ten-dimensional quantum dynamics study of H+CH ₃ D → H ₂ +CH ₂ D reaction. <i>Chinese Journal of Chemical Physics</i> , 2022, 35, 213-218.	1.3	1
3	Mode-specific quantum dynamics study of OH + H ₂ S → H ₂ O + SH reaction. <i>Chinese Journal of Chemical Physics</i> , 2022, 35, 200-206.	1.3	5
4	A novel hybrid machine learning model for predicting rate constants of the reactions between alkane and CH ₃ radical. <i>Fuel</i> , 2022, 322, 124150.	6.4	7
5	Ultrafast Proton Transfer of the Aqueous Phenol Radical Cation. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	1
6	Coloring ultrasensitive MRI with tunable metal-organic frameworks. <i>Chemical Science</i> , 2021, 12, 4300-4308.	7.4	15
7	Predicting Rate Constants of Hydroxyl Radical Reactions with Alkanes Using Machine Learning. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 4259-4265.	5.4	20
8	Effects of bending excitation on the reaction dynamics of fluorine atoms with ammonia. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2715-2722.	2.8	7
9	Dissociative photodetachment of H ₃ O ⁺ : a full-dimensional quantum dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22298-22304.	2.8	2
10	The regulation mechanism of phosphorylation and mutations in intrinsically disordered protein 4E-BP2. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2938-2948.	2.8	5
11	Final-State-Resolved Dynamics of the H ₃ ⁺ + CO → H ₂ +HCO ⁺ /HOC ⁺ Reaction: A Quasi-Classical Trajectory Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6794-6800.	2.5	5
12	Mode- and Bond-Selected Reaction of H with Local Mode Molecule HDS. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10162-10170.	2.5	4
13	C1188D mutation abolishes specific recognition between MLL1-CXXC domain and CpG site by inducing conformational switch of flexible N-terminal. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1401-1412.	2.6	1
14	An Ultraviolet Thermally Activated Delayed Fluorescence OLED with Total External Quantum Efficiency over 9%. <i>Advanced Materials</i> , 2020, 32, e2001248.	21.0	134
15	A ten-dimensional quantum dynamics model for the X + YCAB ₂ reaction: Application to H + CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2020, 153, 224119.	3.0	6
16	Theoretical studies of strong-field photoionization of CH ₃ I. <i>Chemical Physics</i> , 2019, 516, 28-32.	1.9	0
17	Investigating the influence of intramolecular bond lengths on the intermolecular interaction of H ₂ AgCl complex: Binding energy, intermolecular vibrations, and isotope effects. <i>Journal of Chemical Physics</i> , 2019, 150, 164301.	3.0	2
18	Kinetic and dynamic studies of the H ₃ ⁺ + CO → H ₂ + HCO ⁺ /HOC ⁺ reaction on a high-level <i>ab initio</i> potential energy surface. <i>Journal of Chemical Physics</i> , 2019, 151, .	3.0	12

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19	The Observation of Ligand-Binding-Relevant Open States of Fatty Acid Binding Protein by Molecular Dynamics Simulations and a Markov State Model. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3476.	4.1	18
20	Structure-guided post-SELEX optimization of an ochratoxin A aptamer. <i>Nucleic Acids Research</i> , 2019, 47, 5963-5972.	14.5	51
21	Theoretical study of the $F(2P) + NH_3 \rightarrow HF + NH_2$ reaction on an accurate potential energy surface: dynamics and kinetics. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11385-11394.	2.8	21
22	Free-base porphyrins as CEST MRI contrast agents with highly upfield shifted labile protons. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 577-585.	3.0	14
23	Ultrafast dissociative ionization and large-amplitude vibrational wave packet dynamics of strong-field-ionized di-iodomethane. <i>Journal of Chemical Physics</i> , 2019, 151, 214308.	3.0	7
24	Understanding rotational mode specificity in the $O(3P) + CHD_3 \rightarrow OH + CD_3$ reaction by simple reactant alignment pictures. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 46-52.	1.3	5
25	Machine learning of the rate constants for the reaction between alkanes and hydrogen/oxygen atom. <i>Communications in Information and Systems</i> , 2019, 19, 391-403.	0.5	3
26	Tracking the energy flow in the hydrogen exchange reaction $OH + H_2O \rightarrow H_2O + OH$. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12543-12556.	2.8	19
27	Tracking Ultrafast Bond Dissociation Dynamics at 0.1 Å... Resolution by Femtosecond Extreme Ultraviolet Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5742-5747.	4.6	9
28	Dynamics and kinetics of the reaction $OH + H_2S \rightarrow H_2O + SH$ on an accurate potential energy surface. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26315-26324.	2.8	25
29	Understanding mode-specific dynamics in the local mode representation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19647-19655.	2.8	10
30	New Method To Extract Final-State Information of Polyatomic Reactions Based on Normal Mode Analysis. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6997-7005.	2.5	17
31	Vibrational enhancement in the dynamics of ammonia dissociative chemisorption on Ru(0001). <i>Journal of Chemical Physics</i> , 2018, 149, 044703.	3.0	15
32	A rigorous full-dimensional quantum dynamics study of tunneling splitting of rovibrational states of vinyl radical C ₂ H ₃ . <i>Journal of Chemical Physics</i> , 2017, 146, 224307.	3.0	15
33	Competition between the H- and D-atom transfer channels in the $H_2O^+ + HD$ reaction: reduced-dimensional quantum and quasi-classical studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17396-17403.	2.8	9
34	Quantum and quasiclassical dynamics of the multi-channel $H + H_2S$ reaction. <i>Journal of Chemical Physics</i> , 2017, 146, 124303.	3.0	18
35	Facile Access to Twisted Intramolecular Charge-Transfer Fluorogens Bearing Highly Pretwisted Donor-Acceptor Systems Together with Readily Fine-Tuned Charge-Transfer Characters. <i>Small</i> , 2017, 13, 1604113.	10.0	32
36	Elucidating the origins of multimode vibrational coherences of polyatomic molecules induced by intense laser fields. <i>Nature Communications</i> , 2017, 8, 735.	12.8	54

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55	Rotational mode specificity in the Cl + CHD ₃ → HCl + CD ₃ reaction. <i>Journal of Chemical Physics</i> , 2014, 141, 074310.	3.0	75
56	Theoretical prediction of the linear isomers for rare gas-carbon disulfide complexes: He-CS ₂ , Ne-CS ₂ , and Ar-CS ₂ . <i>Journal of Chemical Physics</i> , 2014, 140, 114310.	3.0	25
57	A novel fluorescent pH probe with valuable pK _a based on a twisted intramolecular charge transfer mechanism, and its applications in cell imaging. <i>RSC Advances</i> , 2014, 4, 36849-36853.	3.6	25
58	Effects of reactant rotation on the dynamics of the OH + CH ₄ → H ₂ O + CH ₃ reaction: A six-dimensional study. <i>Journal of Chemical Physics</i> , 2014, 140, 084307.	3.0	40
59	A comparison study of the H ⁺ CH ₄ and H ⁺ SiH ₄ reactions with eight-dimensional quantum dynamics: normal mode versus local mode in the reactant molecule vibration. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	6
60	Ring Polymer Molecular Dynamics Calculations of Thermal Rate Constants for the O(³ P) + CH ₄ → OH + CH ₃ Reaction: Contributions of Quantum Effects. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 48-52.	4.6	68
61	Isotope effects on the dynamics properties and reaction mechanism in the Cl(2P) ⁺ NH ₃ reaction: a QCT and QM study. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	1.4	6
62	Mode selectivity in methane dissociative chemisorption on Ni(111). <i>Chemical Science</i> , 2013, 4, 3249.	7.4	115
63	Accelerating modified Shepard interpolated potential energy calculations using graphics processing units. <i>Computer Physics Communications</i> , 2013, 184, 1150-1154.	7.5	3
64	Six-dimensional and seven-dimensional quantum dynamics study of the OH + CH ₄ → H ₂ O + CH ₃ reaction. <i>Journal of Chemical Physics</i> , 2013, 139, 154310.	3.0	20
65	Full-dimensional quantum calculations of the vibrational states of H ₅ ⁺ . <i>Journal of Chemical Physics</i> , 2013, 138, 124309.	3.0	20
66	An eight-dimensional quantum mechanical Hamiltonian for X + YC ₃ system and its applications to H + CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2012, 137, 174113.	3.0	53
67	Mode Selectivity for a ϵ -Barrier Reaction: Eight-Dimensional Quantum Studies of the O(³ P) + CH ₄ → OH + CH ₃ Reaction on an Ab Initio Potential Energy Surface. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3776-3780.	4.6	87
68	The structural stability of polyhydroxylated C ₆₀ (OH) ₂₄ : Density functional theory characterizations. <i>Computational and Theoretical Chemistry</i> , 2011, 974, 16-20.	2.5	35
69	Kinetics and dynamics of the NH ₃ + H → NH ₂ + H ₂ reaction using transition state methods, quasi-classical trajectories, and quantum-mechanical scattering. <i>Journal of Chemical Physics</i> , 2011, 135, 014303.	3.0	26
70	Full dimensional time-dependent quantum dynamics study of the H+NH ₃ →H ₂ +NH ₂ reaction. <i>Journal of Chemical Physics</i> , 2008, 129, 064315.	3.0	43
71	Seven-dimensional quantum dynamics study of the O(³ P)+CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2007, 126, 064303.	3.0	78
72	Seven dimensional quantum dynamics study of the H ₂ +NH ₂ →H+NH ₃ reaction. <i>Journal of Chemical Physics</i> , 2007, 127, 184308.	3.0	16

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73	Seven-dimensional quantum dynamics study of the $\text{H}+\text{NH}_3 \rightarrow \text{H}_2+\text{NH}_2$ reaction. Journal of Chemical Physics, 2007, 126, 214312.	3.0	30
74	A seven-dimensional quantum study of the $\text{H}+\text{CH}_4$ reaction. Journal of Chemical Physics, 2002, 117, 9539-9542.	3.0	121
75	Quantum dynamics of the D_2+OH reaction. Journal of Chemical Physics, 2002, 116, 2388-2394.	3.0	37
76	Accuracy of the centrifugal sudden approximation in the $\text{H}+\text{H}_2\text{O} \rightarrow \text{H}_2+\text{OH}$ abstraction reaction. Journal of Chemical Physics, 2002, 117, 10067-10072.	3.0	44
77	Branching ratio in the $\text{HD}+\text{OH}$ reaction: A full-dimensional quantum dynamics study on a new ab initio potential energy surface. Journal of Chemical Physics, 2001, 114, 8733-8736.	3.0	36
78	Ab initio potential-energy surfaces for the reactions $\text{OH}+\text{H}_2 \rightarrow \text{H}_2\text{O}+\text{H}$. Journal of Chemical Physics, 2001, 115, 174-178.	3.0	109
79	Quantum dynamics on new potential energy surfaces for the $\text{H}_2+\text{OH} \rightarrow \text{H}_2\text{O}+\text{H}$ reaction. Journal of Chemical Physics, 2001, 114, 4759-4762.	3.0	64