

Minghui Yang

List of Publications by Year in descending order

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79
papers

2,303
citations

218677

26
h-index

233421

45
g-index

79
all docs

79
docs citations

79
times ranked

1489
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum dynamics of polyatomic dissociative chemisorption on transition metal surfaces: mode specificity and bond selectivity. <i>Chemical Society Reviews</i> , 2016, 45, 3621-3640.	38.1	140
2	An Ultraviolet Thermally Activated Delayed Fluorescence OLED with Total External Quantum Efficiency over 9%. <i>Advanced Materials</i> , 2020, 32, e2001248.	21.0	134
3	A seven-dimensional quantum study of the H+CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2002, 117, 9539-9542.	3.0	121
4	Mode selectivity in methane dissociative chemisorption on Ni(111). <i>Chemical Science</i> , 2013, 4, 3249.	7.4	115
5	Ab initio potential-energy surfaces for the reactions OH+H ₂ →H ₂ O+H. <i>Journal of Chemical Physics</i> , 2001, 115, 174-178.	3.0	109
6	Mode Selectivity for a Central-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
7	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
8	Rotational mode specificity in the Cl + CHD ₃ → HCl + CD ₃ reaction. <i>Journal of Chemical Physics</i> , 2014, 141, 074310.	3.0	75
9	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
10	Quantum dynamics on new potential energy surfaces for the H ₂ +OH→H ₂ O+H reaction. <i>Journal of Chemical Physics</i> , 2001, 114, 4759-4762.	3.0	64
11	Mode-Specific S _N 2 Reaction Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3322-3327.	4.6	63
12	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
13	An eight-dimensional quantum mechanical Hamiltonian for X + YC ₂ Z system and its applications to H + CH ₄ reaction. <i>Journal of Chemical Physics</i> , 2012, 137, 174113.	3.0	53
14	Structural Diversity of Ligand-Binding Androgen Receptors Revealed by Microsecond Long Molecular Dynamics Simulations and Enhanced Sampling. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4611-4619.	5.3	51
15	Structure-guided post-SELEX optimization of an ochratoxin A aptamer. <i>Nucleic Acids Research</i> , 2019, 47, 5963-5972.	14.5	51
16	Communication: Mode specific quantum dynamics of the F + CHD ₃ → HF + CD ₃ reaction. <i>Journal of Chemical Physics</i> , 2016, 144, 171101.	3.0	47
17	Accuracy of the centrifugal sudden approximation in the H+H ₂ O→H ₂ +OH abstraction reaction. <i>Journal of Chemical Physics</i> , 2002, 117, 10067-10072.	3.0	44
18	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

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19	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
20	Quantum dynamics of the D ₂ +OH reaction. <i>Journal of Chemical Physics</i> , 2002, 116, 2388-2394.	3.0	37
21	Branching ratio in the HD+OH reaction: A full-dimensional quantum dynamics study on a new ab initio potential energy surface. <i>Journal of Chemical Physics</i> , 2001, 114, 8733-8736.	3.0	36
22	An eight-dimensional quantum dynamics study of the Cl + CH ₄ → HCl + CH ₃ reaction. <i>Journal of Chemical Physics</i> , 2015, 143, 134305.	3.0	36
23	Quantum dynamics of water dissociative chemisorption on rigid Ni(111): An approximate nine-dimensional treatment. <i>Journal of Chemical Physics</i> , 2016, 144, 164706.	3.0	36
24	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
25	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
26	Seven-dimensional quantum dynamics study of the H+NH ₃ → H ₂ +NH ₂ reaction. <i>Journal of Chemical Physics</i> , 2007, 126, 214312.	3.0	30
27	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
28	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
29	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
30	Communication: Equivalence between symmetric and antisymmetric stretching modes of NH ₃ in promoting H + NH ₃ → H ₂ + NH ₂ reaction. <i>Journal of Chemical Physics</i> , 2016, 145, 131101.	3.0	25
31	Dynamics and kinetics of the reaction OH + H ₂ S → H ₂ O + SH on an accurate potential energy surface. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26315-26324.	2.8	25
32	Mode specific dynamics in the H ₂ + SH → H + H ₂ S reaction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29113-29121.	2.8	21
33	Theoretical study of the F(² P) + NH ₃ → 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
34	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
35	Full-dimensional quantum calculations of the vibrational states of H ₅ ⁺ . <i>Journal of Chemical Physics</i> , 2013, 138, 124309.	3.0	20
36	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

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37	Full-dimensional quantum dynamics study of the $H_2 + C_2H \rightarrow H + C_2H_2$ reaction on an <i>ab initio</i> potential energy surface. <i>Journal of Chemical Physics</i> , 2016, 144, 194309.	3.0	19
38	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
39	State-to-State Mode Specificity in $F + CHD_3 \rightarrow HF/DF + CD_3/CHD_2$ Reaction. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6521-6528.	2.5	18
40	Quantum and quasiclassical dynamics of the multi-channel $H + H_2S$ reaction. <i>Journal of Chemical Physics</i> , 2017, 146, 124303.	3.0	18
41	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
42	Structural Properties of Human IAPP Dimer in Membrane Environment Studied by All-Atom Molecular Dynamics Simulations. <i>Scientific Reports</i> , 2017, 7, 7915.	3.3	17
43	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
44	Seven dimensional quantum dynamics study of the $H_2 + NH_2 \rightarrow H + NH_3$ reaction. <i>Journal of Chemical Physics</i> , 2007, 127, 184308.	3.0	16
45	Mode specificity in the $OH + CHD_3$ reaction: Reduced-dimensional quantum and quasi-classical studies on an <i>ab initio</i> based full-dimensional potential energy surface. <i>Journal of Chemical Physics</i> , 2016, 144, 164303.	3.0	15
46	A rigorous full-dimensional quantum dynamics study of tunneling splitting of rovibrational states of vinyl radical C_2H_3 . <i>Journal of Chemical Physics</i> , 2017, 146, 224307.	3.0	15
47	Vibrational enhancement in the dynamics of ammonia dissociative chemisorption on Ru(0001). <i>Journal of Chemical Physics</i> , 2018, 149, 044703.	3.0	15
48	Coloring ultrasensitive MRI with tunable metal-organic frameworks. <i>Chemical Science</i> , 2021, 12, 4300-4308.	7.4	15
49	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
50	Mode specific dynamics of the $H_2 + CH_3 \rightarrow H + CH_4$ reaction studied using quasi-classical trajectory and eight-dimensional quantum dynamics methods. <i>Journal of Chemical Physics</i> , 2015, 143, 154307.	3.0	12
51	Molecular Dynamics Simulations of the <i>Escherichia coli</i> HPPK Apo-enzyme Reveal a Network of Conformational Transitions. <i>Biochemistry</i> , 2015, 54, 6734-6742.	2.5	12
52	Kinetic and dynamic studies of the $H_3 + CO \rightarrow H_2 + HCO/HOC$ reaction on a high-level <i>ab initio</i> potential energy surface. <i>Journal of Chemical Physics</i> , 2019, 151, .	3.0	12
53	Theoretical studies for the $N_2 \leftarrow N_2O$ van der Waals complex: The potential energy surface, intermolecular vibrations, and rotational transition frequencies. <i>Journal of Chemical Physics</i> , 2015, 143, 154304.	3.0	11
54	Understanding mode-specific dynamics in the local mode representation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19647-19655.	2.8	10

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55	Time-Dependent Wave Packet Study of the $\text{H}_2 + \text{CH}_3 \rightarrow \text{H} + \text{CH}_4$ Reaction. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12480-12484.	2.5	9
56	Competition between the H- and D-atom transfer channels in the $\text{H}_2\text{O} + \text{HD}$ reaction: reduced-dimensional quantum and quasi-classical studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17396-17403.	2.8	9
57	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
58	A Network of Conformational Transitions Revealed by Molecular Dynamics Simulations of the Binary Complex of <i>Escherichia coli</i> 6-Hydroxymethyl-7,8-dihydropterin Pyrophosphokinase with MgATP. <i>Biochemistry</i> , 2016, 55, 6931-6939.	2.5	8
59	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
60	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
61	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
62	Isotope effects on the dynamics properties and reaction mechanism in the $\text{Cl}(2P) + \text{NH}_3$ reaction: a QCT and QM study. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	1.4	6
63	A comparison study of the $\text{H} + \text{CH}_4$ and $\text{H} + \text{SiH}_4$ 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
64	Breakdown of the vibrationally adiabatic approximation in the early-barrier $\text{CH}_3 + \text{HBr} \rightarrow \text{CH}_4 + \text{Br}$ reaction. <i>Theoretical Chemistry Accounts</i> , 2017, 136, 1.	1.4	6
65	A ten-dimensional quantum dynamics model for the $\text{X} + \text{YCAB}_2$ reaction: Application to $\text{H} + \text{CH}_4$ reaction. <i>Journal of Chemical Physics</i> , 2020, 153, 224119.	3.0	6
66	Toward a Comprehensive Understanding of Mode-Specific Dynamics of Polyatomic Reactions: A Full-Dimensional Quantum Dynamics Study of the $\text{H} + \text{NH}_3$ Reaction. <i>Journal of Physical Chemistry A</i> , 2022, 126, 663-669.	2.5	6
67	Understanding rotational mode specificity in the $\text{O}(3P) + \text{CHD}_3 \rightarrow \text{OH} + \text{CD}_3$ reaction by simple reactant alignment pictures. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 46-52.	1.3	5
68	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
69	Final-State-Resolved Dynamics of the $\text{H}_3 + \text{CO} \rightarrow \text{H}_2 + \text{HCO} / \text{HO} + \text{HCO}$ Reaction: A Quasi-Classical Trajectory Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6794-6800.	2.5	5
70	Mode-specific quantum dynamics study of $\text{OH} + \text{H}_2\text{S} \rightarrow \text{H}_2\text{O} + \text{SH}$ reaction. <i>Chinese Journal of Chemical Physics</i> , 2022, 35, 200-206.	1.3	5
71	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
72	Accelerating modified Shepard interpolated potential energy calculations using graphics processing units. <i>Computer Physics Communications</i> , 2013, 184, 1150-1154.	7.5	3

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73	Machine learning of the rate constants for the reaction between alkanes and hydrogen/oxygen atom. Communications in Information and Systems, 2019, 19, 391-403.	0.5	3
74	Investigating the influence of intramolecular bond lengths on the intermolecular interaction of H ₂ AgCl complex: Binding energy, intermolecular vibrations, and isotope effects. Journal of Chemical Physics, 2019, 150, 164301.	3.0	2
75	Dissociative photodetachment of H ₃ O ⁺ : a full-dimensional quantum dynamics study. Physical Chemistry Chemical Physics, 2021, 23, 22298-22304.	2.8	2
76	C1188D mutation abolishes specific recognition between MLL1 CXXC domain and CpG site by inducing conformational switch of flexible N-terminal. Proteins: Structure, Function and Bioinformatics, 2020, 88, 1401-1412.	2.6	1
77	Ten-dimensional quantum dynamics study of H+CH ₃ D → H ₂ +CH ₂ D reaction. Chinese Journal of Chemical Physics, 2022, 35, 213-218.	1.3	1
78	Ultrafast Proton Transfer of the Aqueous Phenol Radical Cation. Physical Chemistry Chemical Physics, 2022, , .	2.8	1
79	Theoretical studies of strong-field photoionization of CH ₃ I. Chemical Physics, 2019, 516, 28-32.	1.9	0