List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Non-adiabatic couplings induced complex-forming mechanism in H+MgH+ → Mg++H2 reaction. Chinese Journal of Chemical Physics, 2022, 35, 345-352.	1.3	1
2	Representing globally accurate reactive potential energy surfaces with complex topography by combining Gaussian process regression and neural networks. Physical Chemistry Chemical Physics, 2022, 24, 12827-12836.	2.8	4
3	Stereodynamics-Controlled Product Branching in the Nonadiabatic H + NaD → Na(3s, 3p) + HD Reaction at Low Temperatures. Journal of Physical Chemistry A, 2022, 126, 2453-2462.	2.5	6
4	Wave Packet Approach to Adiabatic and Nonadiabatic Dynamics of Cold Inelastic Scatterings. Molecules, 2022, 27, 2912.	3.8	4
5	Time-dependent wave packet dynamics study of the resonances in the H + LiH <sup>+</sup> ( <i>v</i> = 0,) Tj ETQ Chemical Physics, 2022, 24, 15532-15539.	9110.78 2.8	34314 rgBT 7
6	Dramatically Enhanced Second Harmonic Generation in Janus Groupâ€III Chalcogenide Monolayers. Advanced Optical Materials, 2022, 10, .	7.3	8
7	Time-dependent wave packet dynamics study of non-adiabatic Li(2p)Â+ÂHDÂ→ÂLiH/LiDÂ+ÂD/H reaction in a diabatic representation. Chemical Physics Letters, 2021, 764, 138279.	2.6	1
8	Transition metal-doped Bn (n = 7â^'10) clusters: confirmation of a circular disk Jellium model. European Physical Journal Plus, 2021, 136, 1.	2.6	5
9	Noble Metallic Pyramidal Substrate for Surface-Enhanced Raman Scattering Detection of Plasmid DNA Based on Template Stripping Method. Micromachines, 2021, 12, 923.	2.9	0
10	Inelastic, exchange, and reactive processes in rovibrationally excited collisions of HD with H. Monthly Notices of the Royal Astronomical Society, 2021, 507, 6012-6019.	4.4	4
11	Non-adiabatic quantum dynamics studies of the Mg+(3p)Â+ÂD2Â→ÂMgD+Â+ÂD reaction. Chemical Physics, 202 550, 111311.	21 1.9	1
12	Evolution of Water Layer Adsorption on the GaN(0001) Surface and Its Influence on Electronic Properties. Journal of Physical Chemistry C, 2021, 125, 667-674.	3.1	5
13	Accurate electronic properties and non-linear optical response of two-dimensional MA2Z4. Nanoscale, 2021, 13, 5479-5488.	5.6	61
14	Quantum Dynamics Studies of the Significant Intramolecular Isotope Effects on the Nonadiabatic Be <sup>+</sup> ( <sup>2</sup> P) + HD → BeH <sup>+</sup> /BeD <sup>+</sup> + D/H Reaction. Journal of Physical Chemistry A, 2021, 125, 235-242.	2.5	9
15	Feshbach resonances in D + <scp>HD</scp> ( <i>v</i> Â=Â1, <i>j</i> Â=Â0) reaction at low collision energ Journal of Computational Chemistry, 2021, 42, 2334-2340.	ies. 3.3	1
16	Quantum Wave Packet Treatment of Cold Nonadiabatic Reactive Scattering at the State-To-State Level. Journal of Physical Chemistry A, 2021, 125, 10111-10120.	2.5	15
17	Temperature- and pressure-dependent rate coefficient measurement for the reaction of CH <sub>2</sub> OO with CH <sub>3</sub> CH <sub>2</sub> CHO. Physical Chemistry Chemical Physics, 2020, 22, 25869-25875.	2.8	8
18	Structures, stabilities and electronic properties of TimSiâ^'n (m = 1‒2, n = 14‒20) clusters: a combine initio and experimental study. European Physical Journal Plus, 2020, 135, 1	ed ab	14

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19	Competition between tubular, planar and cage geometries: a complete picture of structural evolution of B <sub>n</sub> ( <i>n</i> = 31–50) clusters. Physical Chemistry Chemical Physics, 2020, 22, 12959-12966.	2.8	21
20	Theoretical study of surface-enhanced Raman scattering mechanism of scandium-doped copper/silver clusters. Nanotechnology, 2020, 31, 285201.	2.6	1
21	Quantum dynamics studies of isotope effects in the Mg+(3p) + HD → MgH+/MgD+ + D/H insertion reaction. Scientific Reports, 2020, 10, 3410.	3.3	6
22	Dynamics study on the non-adiabatic Na(3p) + HD → NaH/NaD + D/H reaction: insertion–abstraction mechanism. Physical Chemistry Chemical Physics, 2020, 22, 3633-3642.	2.8	10
23	Neural network potential energy surface and dynamical isotope effects for the N <sup>+</sup> ( <sup>3</sup> P) + H <sub>2</sub> → NH <sup>+</sup> + H reaction. Physical Chemistry Chemical Physics, 2019, 21, 22203-22214.	2.8	15
24	Ethanol and Acetaldehyde Decomposition on Co(0001): The Effect of Hydrogen Atom on C–O Bond Scission. Journal of Physical Chemistry C, 2019, 123, 19045-19051.	3.1	4
25	Ultra-narrow electromagnetically induced transparency in the visible and near-infrared regions. Applied Physics Letters, 2019, 114, .	3.3	9
26	Biological nascent evolution of snail bone and collagen revealed by nonlinear optical microscopy. Journal of Biophotonics, 2019, 12, e201900119.	2.3	12
27	Methanol Decomposition on Co(0001): Influence of the Cobalt Oxidation State on Reactivity. Journal of Physical Chemistry C, 2019, 123, 9139-9145.	3.1	6
28	Non-adiabatic state-to-state dynamic studies of Na(3p) + H2(v = 1, 2, 3; j = 0) → NaH +a Physics Letters, 2019, 723, 128-132.	â€ <sup>−</sup> H reacti 2.6	on <u>ş</u> . Chemica
29	Acetaldehyde polymerization on Co(0001): the role of CO. Physical Chemistry Chemical Physics, 2019, 21, 8275-8281.	2.8	0
30	Nonlinear optical characterization of porous carbon materials by CARS, SHG and TPEF. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 214, 58-66.	3.9	11
31	Diabatic potential energy surfaces of MgH <sub>2</sub> <sup>+</sup> and dynamic studies for the Mg <sup>+</sup> (3p) + H <sub>2</sub> → MgH <sup>+</sup> + H reaction. Physical Chemistry Chemical Physics, 2018, 20, 6638-6647.	2.8	30
32	A global potential energy surface and timeâ€dependent quantum wave packet calculation of Au + H <sub>2</sub> reaction. International Journal of Quantum Chemistry, 2018, 118, e25493.	2.0	14
33	Kinetics of the reaction of the simplest Criegee intermediate with ammonia: a combination of experiment and theory. Physical Chemistry Chemical Physics, 2018, 20, 29669-29676.	2.8	27
34	New diabatic potential energy surfaces of the NaH2 system and dynamics studies for the Na(3p) + H2 → NaH + H reaction. Scientific Reports, 2018, 8, 17960.	3.3	16
35	Revisit of largeâ€gap Si <sub>16</sub> clusters encapsulating groupâ€ŀV metal atoms (Ti, Zr, Hf). Journal of Computational Chemistry, 2018, 39, 2268-2272.	3.3	17
36	A new accurate potential energy surface for HeTiO system and rotational quenching of TiO due to He collisions. Chemical Physics Letters, 2018, 706, 323-327.	2.6	1

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37	Optical characterizations of two-dimensional materials using nonlinear optical microscopies of CARS, TPEF, and SHG. Nanophotonics, 2018, 7, 873-881.	6.0	35
38	Global diabatic potential energy surfaces for the BeH <sub>2</sub> <sup>+</sup> system and dynamics studies on the Be <sup>+</sup> ( <sup>2</sup> P) + H <sub>2</sub> (X <sup>1</sup> î£ <sub>g</sub> <sup>+</sup> ) â†' BeH <sup>+</sup> (X <sup>1</sup> î£ <sup>+</sup> ) + H( <sup>2</sup> S) reaction. RSC Advances, 2018, 8, 22823-22834.	3.6	16
39	Advances in nonlinear optical microscopy for biophotonics. Journal of Nanophotonics, 2018, 12, 1.	1.0	24
40	Coupling effect on chargeâ€ŧransfer mechanism of surfaceâ€enhanced resonance Raman scattering. Journal of Raman Spectroscopy, 2017, 48, 560-569.	2.5	15
41	Structures and electronic properties of B3Sinâ^' (n = 4–10) clusters: A combined <i>ab initio</i> and experimental study. Journal of Chemical Physics, 2017, 146, 044306.	3.0	27
42	Theoretical investigations of the Au++H <sub>2</sub> reactive scattering by the time-dependent quantum wave packet method. International Journal of Modern Physics B, 2017, 31, 1750039.	2.0	4
43	Global X <sup>2</sup> A′ potential energy surface of Li <sub>2</sub> H and quantum dynamics of H + Li <sub>2</sub> (X <sup>1</sup> î£ <sub>g</sub> <sup>+</sup> ) → Li + LiH (X <sup>1<td>suppo Σ<si< td=""><td>u<b>p</b>&gt;+</td></si<></td></sup>	suppo Σ <si< td=""><td>u<b>p</b>&gt;+</td></si<>	u <b>p</b> >+
44	A new potential energy surface for the ground state of the LiH <sub>2</sub> <sup>+</sup> system and dynamic studies on LiH <sup>+</sup> (X <sup>2</sup> Σ <sup>+</sup> ) + H( <sup>2</sup> S) → Li <sup>+</sup> ( <sup>1</sup> S) + H <sub>2</sub> (X <sup>1</sup> Σ+g). RSC Advances, 2017, 7, 7008-7014.	3.6	11
45	A neural network potential energy surface for the NaH2 system and dynamics studies on the H(2S) + NaH(X1Σ+) → Na(2S) + H2(X1Ĩ£g+) reaction. Physical Chemistry Chemical Physics, 2017, 19, 19873-19880.	2.8	14
46	Surface-enhanced Raman scattering of pyrazine on Au <sub>5</sub> Al <sub>5</sub> bimetallic nanoclusters. RSC Advances, 2017, 7, 12170-12178.	3.6	8
47	SERRS and absorption spectra of pyridine on Au <i><sub>m</sub></i> Ag <i><sub>n</sub></i> ( <i>m</i> + <i>n</i> = 6) bimetallic nanoclusters: substrate composition and applied electric field effects. Nanotechnology, 2017, 28, 475201.	2.6	1
48	A global potential energy surface and dynamics study of the Au+ + H2 → H + Au+H reaction. RSC Advances, 2017, 7, 35648-35654.	3.6	1
49	Quantum rotational scattering of H <sub>2</sub> and its isotopologues with He. Molecular Physics, 2017, 115, 2442-2450.	1.7	8
50	Influence of rovibrational excitation on the non-diabatic state-to-state dynamics for the Li(2p) + H2 → LiH + H reaction. Scientific Reports, 2017, 7, 3084.	3.3	14
51	A new potential energy surface of LiHCl system and dynamic studies for the Li(2S) + HCl(X1Σ+) → LiCl(X1Σ+) + H(2S) reaction. Journal of Chemical Physics, 2016, 145, 234312.	3.0	13
52	Global diabatic potential energy surfaces and quantum dynamical studies for the Li(2p) + H2(X1Σ+g) → LiH(X1Σ+) + H reaction. Scientific Reports, 2016, 6, 25083.	3.3	28
53	Ultrafast Dynamics of Plasmon-Exciton Interaction of Ag Nanowire- Graphene Hybrids for Surface Catalytic Reactions. Scientific Reports, 2016, 6, 32724.	3.3	106
54	A new potential energy surface for the H2S system and dynamics study on the S(1D) + H2(X1Σg+) reac Scientific Reports, 2015, 5, 14594.	tion, 3.3	16

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55	Effect of aqueous and ambient atmospheric environments on plasmon-driven selective reduction reactions. Scientific Reports, 2015, 5, 10269.	3.3	22
56	Non-Born–Oppenheimer stereodynamics study for the D+ + H2 (v, j = 0) reaction using coherent switching with decay of mixing method. Canadian Journal of Chemistry, 2015, 93, 764-768.	1.1	0
57	A new potential energy surface for the ground electronic state of the LiH <sub>2</sub> system, and dynamics studies on the H( <sup>2</sup> S) + LiH(X <sup>1</sup> Σ <sup>+</sup> ) → Li( <sup>2</sup> S) + H <sub>2</sub> (X <sup>1</sup> Σ <sub>g</sub> <sup>+</sup> ) reaction. Physical Chemistry Chemical Physics. 2015. 17. 11732-11739.	2.8	47
58	Effect of Reagent Vibrational Excitation on the Dynamics of F + H <sub>2</sub> ( <i>v</i> = 1, <i>j</i> =) Tj ETQo	1000 rgB⊺ 2.5	T /Overlock 1C
59	Time-dependent quantum wave packet and quasiclassical trajectory studies of the Au( <sup>2</sup> <i>S</i> ) + H <sub>2</sub> (X <sup>1</sup> â <sup>-{</sup> <sup>+<i>g</i>) â<sup>+</sup> AuH(X<sup>1</sup>a<sup>-{</sup><sup>+</sup><sub><i>g</i>) + H(<sup>2</sup><i>S</i>) reaction. Molecular Physics. 2014. 112. 2945-2953.</sub></sup>	1.7	15
60	Charge transfer mechanism of SERS for metal–molecule–metal junction supported by graphene and boron-doped graphene. RSC Advances, 2014, 4, 63596-63602.	3.6	10
61	DFT study on the influence of electric field on surfaceâ€enhanced Raman scattering from pyridine–metal complex. Journal of Raman Spectroscopy, 2014, 45, 62-67.	2.5	22
62	Molecular design of organic sensitizers absorbing over a broadened visible region for dye-sensitized solar cells. RSC Advances, 2014, 4, 57916-57922.	3.6	5
63	Time-dependent wave packet and quasiclassical trajectory studies of the Au + HD reaction: competition between the reactive channels. RSC Advances, 2014, 4, 36189.	3.6	19
64	Ligand Desorption and Desulfurization on Silver Nanoparticles Using Sodium Borohydride in Water. Journal of Physical Chemistry C, 2014, 118, 10509-10518.	3.1	21
65	State-Resolved Time-Dependent Wave Packet and Quasiclassical Trajectory Studies of the Adiabatic Reaction S(3P) + HD on the (13A″) State. Journal of Physical Chemistry A, 2014, 118, 55-61.	2.5	10
66	Investigation of excited-state intramolecular proton transfer coupled charge transfer reaction of paeonol. Canadian Journal of Chemistry, 2014, 92, 274-278.	1.1	3
67	Visualized method of chemical enhancement mechanism on SERS and TERS. Journal of Raman Spectroscopy, 2014, 45, 533-540.	2.5	107
68	TDDFT studies of electronic spectra and excited states of the triphenylamine-based organic sensitizers and organic sensitizer–titanium dioxide cluster complexes. RSC Advances, 2013, 3, 12133.	3.6	11
69	The impact of the number of layers of a graphene nanopore on DNA translocation. Soft Matter, 2013, 9, 960-966.	2.7	52
70	STUDY OF THE S <sub>1</sub> AND S <sub>2</sub> EXCITED STATES OF GAS-PHASE PROTONATED SCHIFF BASE RETINAL CHROMOPHORES IN ONE AND TWO PHOTON ABSORPTION. Journal of Theoretical and Computational Chemistry, 2011, 10, 121-132.	1.8	2
71	Theoretical studies of the stereodynamics for the reaction H + LiH <sup>+</sup> ( <i>v</i> = 0, <i>j</i> =) Tj ETQq2	l 1 0.7843 1.7	14 rgBT /Ovei
	Direct visual evidence for the chemical mechanism of surfaceatenhanced resonance Paman scattering		

<sup>72</sup> Direct visual evidence for the chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer. Journal of Raman Spectroscopy, 2009, 40, 137-143.

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73	Direct visual evidence for the chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer: (II) Bindingâ€site and quantumâ€size effects. Journal of Raman Spectroscopy, 2009, 40, 1172-1177.	2.5	28
74	Theoretical study of electronic structure and excited states properties of two dyes for dye-sensitized solar cells. Molecular Physics, 2009, 107, 2569-2577.	1.7	6
75	Theoretical study on SERRS of rhodamine 6G adsorbed on Ag <sub>2</sub> cluster: chemical mechanism via intermolecular or intramolecular charge transfer. Journal of Raman Spectroscopy, 2008, 39, 1170-1177.	2.5	23
76	CONTROL OF SUCCESSIVELY SWITCHING FROM LLCT TO ILCT AND MLCT EXCITED STATES IN PLATINUM(II) TERPYRIDYL ACETYLIDE COMPLEXES BY SEQUENTIAL PROTONATIONS. Journal of Theoretical and Computational Chemistry, 2008, 07, 103-111.	1.8	3