Qing-Tian Meng

List of Publications by Year
in descending order

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53	446	858243 12	993246 17
papers	citations	h-index	g-index

53	53	53	204
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new global analytical ab initio potential energy surface for the dynamics of the C+(2P) + SH(X2Î) reaction. Physical Chemistry Chemical Physics, 2022, 24, 1007-1015.	1.3	2
2	Nitro rotation tuned dissociative electron attachment upon targeted radiosensitizer 4-substituted Z bases. Physical Chemistry Chemical Physics, 2022, 24, 10356-10364.	1.3	6
3	Physical mechanism analysis of cholesterol concentration effect on asymmetric phospholipid membrane. European Physical Journal Plus, 2021, 136, 1.	1.2	3
4	Theoretical insight into the vibrational excitation effect of the S+(4S)Â+ÂH2(X1âˆ'+g) reaction. Chemical Physics Letters, 2021, 764, 138257.	1.2	1
5	State-to-state dynamics of reactions H + DHâ€™(Î½ = 0,j = 0) â†' HHâ€™(Î½â€™,jâ€™) + D/HD(Î½â€™,jâ€™) + Hâ€™ with time-de quantum wave packet method*. Chinese Physics B, 2021, 30, 073102.	0.7	1
6	Photophysical properties of fluorescent nucleobase P-analogues expected to monitor DNA replication. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119926.	2.0	9
7	Field-free alignment of triatomic molecules controlled by a slow turn-on and rapid turn-off shaped laser pulse. Molecular Physics, 2021, 119, e1859147.	0.8	2
8	Examining the isotope effect on CH decay and H exchange reactions: H(2S) + CH(D/T)(2Î). Physica Scripta, 2021, 96, 015404.	1.2	1
9	Potential energy curves, spectroscopic constants, and vibrational energy levels of CS⁺(X²Î£⁺/A²Î). Molecular Physics, 2020, 118, .	0.8	4
10	The interference fringes of above-threshold ionization spectrum of SF6 molecules in an IR + XUV laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 195101.	0.6	0
11	Proton Transfer and Nitro Rotation Tuned Photoisomerization of Artificial Base Pair-ZP. Frontiers in Chemistry, 2020, 8, 605117.	1.8	15
12	State-to-state dynamics of S+(2D)Â+ÂH2(X1Î£g+)(v, j) collision reaction based on the H2S+ (X 2Aâ€²â€²)potential energy surface. Computational and Theoretical Chemistry, 2020, 1191, 113021.	1.1	1
13	Exploring reaction mechanism and vibrational excitation effect in HÂ+ÂCH(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 reaction. Chemical Physics Letters, 2020, 749, 137398.	1.2	4
14	Dynamics of H(² S) + CH(X ²Î) reactions based on a new CH₂(${ilde{X}}^{3}A^{primeprime} $) surface via extrapolation to the complete basis set limit. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 095202.	0.6	6
15	ZnCdO2 monolayer â€" A complex 2D structure of ZnO and CdO monolayers for photocatalytic water splitting driven by visible-light. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 230, 118068.	2.0	6
16	Mechanism analysis of reaction ${{m{S}}}^{+}{(}^{2}{m{D}})+{{m{H}}}_{2}({{m{X}}}^{1}{Sigma) Tj ETQq0 0 0 rgBT /Overlock 10 T the quantum state-to-state dynamics. Chinese Physics B, 2020, 29, 063101.	0.7	6
17	id= Z-20200417045027-1 >egin{document}${f{C}}{(^3}{f{P}}) + {{f{H}}_2}({{f{X}}^1} Sigma) Tj ETQq1 1 0.784314 rgBT /Overlo xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="8-20200132_Z-20200417045027-1.jpg"/><graphic xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="8-20200132_Z-20200417045027-1.png"/></alternatives></inline-formula>	0.2	1
18	State-to-state quantum dynamics of F(²P)+HO(²Î)â†'O(³P)+HF(¹Î£⁺) reaction on 1³Aâ€² and 2³Aâ€²â€² surfaces. Molecular Physics, 2019, 117, 311-322.	0.8	9

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19	Strain effect on the electronic and optical properties of ATaO2N (Aâ€‰=â€‰Ca, Sr, and Ba): insights from the first-principles. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	4
20	HCS(A2Aâ€³)-based insights into the effect of vibrational excitation on the reactions C+SHÂ(v =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	0.6	5
21	Field-free molecular orientation steered by combination of super-Gaussian and THz half-cycle laser pulses. Chinese Physics B, 2019, 28, 113301.	0.7	3
22	Accurate global potential energy surface for SiH2+(X2A1) and quantum dynamics of related reaction H(2S) + SiH+(X1Î£+). Journal of Chemical Physics, 2019, 150, 224304.	1.2	14
23	Stereo-dynamics of the reaction Câ€¯+â€¯SH(D,T)(vâ€¯=â€¯0, jâ€¯=â€¯0)â€¯â†’â€¯H(D,T)â€¯+â€¯CS based on a recent excited state po energy surface. Computational and Theoretical Chemistry, 2019, 1155, 82-89.	1.1	5
24	Studies of the Coriolis coupling effect on reaction dynamics of ${m{H}}({}^{2}{m{S}})+{m{O}}{{m{H}}}^{+} ightarrow {m{O}}({}^{3}{m{P}})+{{m{H}}}_{2}^{+}({{m{{m X}}}}^{2}{{m{Sigma }}}_{{m{g}}}^{+})$ using the time dependent wave packet method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 105201.	0.6	0
25	Photocatalytic hydrogen production from water splitting with N-doped Î²-Ga2O3 and visible light. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 211, 71-78.	2.0	23
26	O-doped behavior impacts on the optical and mechanical properties of Pmm2-BC2N. Journal of Materials Science, 2019, 54, 457-466.	1.7	5
27	Field-free molecular alignment induced by a super-Gaussian laser pulse. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 065401.	0.6	8
28	Globally Accurate Potential Energy Surface for HCS(A²Aâ€³) by Extrapolation to the Complete Basis Set Limit. Journal of Physical Chemistry A, 2018, 122, 4390-4398.	1.1	17
29	The manifestation of vibrational excitation effect in reactions C + SH(v= 0â€“20,j= 0) $ ightarrow $ H + CS, S + CH. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 065202.	0.6	11
30	Consensus Control of Multiagent Systems with High-Order Nonlinear Inaccurate Dynamics and Dynamically Switching Undirected Topologies. Mathematical Problems in Engineering, 2018, 2018, 1-7.	0.6	0
31	Quantum dynamics calculations for O+ + H2 (vi = 0, ji = 0) â†’ OH+ + H ionâ€“molecule reaction on a new potential energy surface. European Physical Journal D, 2018, 72, 1.	0.6	4
32	Dynamical analysis of the effect of super-Gaussian laser pulses on molecular orientation. Laser Physics, 2018, 28, 126002.	0.6	6
33	Accurate potential energy surface of H2S+(X2Aâ€³) via extrapolation to the complete basis set limit and its use in dynamics study of S+(D2)+H2(X1Î£g+) reaction. Journal of Chemical Physics, 2018, 149, 154303.	1.2	19
34	Exploring the reaction dynamics of O(³P)+ (X²)â†’OH⁺(X³Î£^{â¯})+ H(²S) reaction with timeâ€dependent wave packet method. International Journal of Quantum Chemistry, 2017, 117, e25343.	1.0	11
35	Fast detection of Escherichia coli in food using nanoprobe and ATP bioluminescence technology. Analytical Methods, 2017, 9, 5378-5387.	1.3	19
36	The stereodynamics study on the isotopic substitution C + SH(D, T) â†’ H(D, T) + CS reactions on the new HCS(X²Aâ€²) potential energy surface. Canadian Journal of Physics, 2017, 95, 1219-1224.	0.4	7

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37	by scaling the external correlation. Chinese Physics B, 2016, 25, 053101.	0.7	6
38	Globally accurate potential energy surface for the ground-state HCS(X2Aâ€²) and its use in reaction dynamics. Scientific Reports, 2016, 6, 37734.	1.6	15
39	Coriolis coupling effects in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"><mml:mrow><mml:mtext>H</mml:mtext><mml:mo>+</mml:mo><mml:msub><mml:mtext>Li</mml:mtext><mml: stretchy="false">(</mml:mo><mml:msup><mml:mtext>X</mml:mtext><mml:mn>1</mml:mn></mml:msup><mml:msubsup><mml:	1.2	23
40	Accurate ab initio -based analytical potential energy function for S ₂ (Ã£) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 24, 013101.	0.7	11
41	Accurate potential energy curve and spectroscopic properties of S₂(b¹â^_g⁺) via extrapolation to the complete basis set limit. Physica Scripta, 2015, 90, 035403.	1.2	11
42	The quantum dynamics of the reactions N+H₂(HD,D₂) and their vibrational excitation effect. International Journal of Quantum Chemistry, 2015, 115, 231-238.	1.0	6
43	Globally accurate ab initio based potential energy surface of H ₂ O ⁺ (X ⁴ Aâ€³). Chinese Physics B, 2015, 24, 063101.	0.7	17
44	Cross sections for vibrational inhibition at low collision energies for the reaction H + Li2(X1Î£ g +) â†' Li + LiH (X1Î£+). European Physical Journal D, 2015, 69, 1.	0.6	32
45	State-to-State Quantum Dynamics of Reactions O(³P) + HD (v = 0â€“1, j = 0) â†' OH+D and OD+H: Reaction Mechanism and Vibrational Excitation. Journal of Physical Chemistry A, 2015, 119, 8959-8970.	1.1	14
46	Dynamical properties of S(³P)â€‰+â€‰HD reaction on 1³Aâ€³state and their quantum wavepacket calculation. International Journal of Quantum Chemistry, 2014, 114, 748-754.	1.0	8
47	Accurate ab initio-based DMBE potential energy surface for HLi2(X â€‰2Aâ€²) via scaling of the external correlation. European Physical Journal D, 2014, 68, 1.	0.6	13
48	Photoassociation of NaRb with an asymmetric laser pulse. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1879-1884.	2.0	3
49	Quantum reaction dynamics of the C(1D) + H2(D2) â†' CH(D) + H(D) on a new potential energy surface. Journal of Chemical Physics, 2013, 139, 014306.	1.2	27
50	Quasi-classical trajectory approach to the stereo-dynamics of the reaction F + HO â†' HF + O. Science China Chemistry, 2010, 53, 927-932.	4.2	10
51	Influence of collision energy on the axial polarization of product molecule for reaction FÂ+ HO â†' HFÂ+ O. Canadian Journal of Physics, 2009, 87, 1247-1254.	0.4	11
52	Time-dependent wave packet approach to the pulse delay effect upon RbI photoelectron spectrum. Science in China Series B: Chemistry, 2006, 49, 214-218.	0.8	0
53	Quantum and Quasiclassical Dynamics of the ${mf C}(f ^3P)$ + ${mf H_2}(f ^1Sigma_g^+)$ $ightarrow$ ${mf H}(f ^2S)$ + ${mf CH}(f ^2Pi)$ reaction: Coriolis Coupling Effects and Stereodynamics. Chinese Physics B, 0, , .	0.7	1