Qingyong Meng

List of Publications by Year
in descending order

18 papers	228 citations	1040056 9 h-index	996975 15 g-index
18 all docs	18 docs citations	18 times ranked	202 citing authors

#	Article	IF	Citations
1	Communication: Rate coefficients of the H + CH4 â†' H2 + CH3 reaction from ring polymer molecular dynamics on a highly accurate potential energy surface. Journal of Chemical Physics, 2015, 143, 101102.	3.0	41
2	Theoretical and experimental investigations of rate coefficients of O(1D) + CH4 at low temperature. Physical Chemistry Chemical Physics, 2016, 18, 29286-29292.	2.8	33
3	A full-dimensional multilayer multiconfiguration time-dependent Hartree study on the ultraviolet absorption spectrum of formaldehyde oxide. Journal of Chemical Physics, 2014, 141, 124309.	3.0	31
4	Ring polymer molecular dynamics fast computation of rate coefficients on accurate potential energy surfaces in local configuration space: Application to the abstraction of hydrogen from methane. Journal of Chemical Physics, 2016, 144, 154312.	3.0	22
5	Revisiting the Gaussian process regression for fitting high-dimensional potential energy surface and its application to the OH + HO2â€â†' O2 + H2O reaction. Journal of Chemical Physics, 2020, 152, 134309.	3.0	16
6	Rate coefficients of the H + H2O2 â†' H2 + HO2 reaction on an accurate fundamental invariant-neural network potential energy surface. Journal of Chemical Physics, 2018, 149, 174303.	3.0	15
7	MCTDH study on vibrational states of the CO/Cu(100) system. Journal of Chemical Physics, 2013, 139, 164709.	3.0	12
8	Lattice effects of surface cell: Multilayer multiconfiguration time-dependent Hartree study on surface scattering of CO/Cu(100). Journal of Chemical Physics, 2017, 146, .	3.0	12
9	Ring-polymer molecular dynamics studies on the rate coefficient of the abstraction channel of hydrogen plus ethane, propane, and dimethyl ether. Journal of Chemical Physics, 2017, 146, 024108.	3.0	9
10	Expansion Hamiltonian model for a diatomic molecule adsorbed on a surface: Vibrational states of the CO/Cu(100) system including surface vibrations. Journal of Chemical Physics, 2015, 143, 164310.	3.0	8
11	Neural-network potential energy surface with small database and high precision: A benchmark of the H + H2 system. Journal of Chemical Physics, 2019, 151, 114302.	3.0	8
12	High-Dimensional Quantum Dynamics Study on Excitation-Specific Surface Scattering Including Lattice Effects of a Five-Atom Surface Cell. Journal of Chemical Theory and Computation, 2021, 17, 2702-2713.	5.3	6
13	Mechanistic insight into the highly regioselective Ni(0)-catalyzed [2 + 2] self-cycloaddition of electron-deficient allenoates. Catalysis Science and Technology, 2019, 9, 1273-1278.	4.1	5
14	Ring-polymer molecular dynamics study on rate coefficient of the barrierless OH + CO system at low temperature. Journal of Chemical Physics, 2019, 150, 044307.	3.0	3
15	MCTDH study on the reactive scattering of the Clâ€¯+â€¯HD reaction based on the neural-networks potential energy surface. Chemical Physics, 2018, 509, 131-138.	1.9	2
16	Ring-Polymer Molecular Dynamics with Coarse-Grained Treatment of the Rate Coefficients of Chlorine Atom Reactions with Methane, Ethane, and Propane. Journal of Physical Chemistry A, 2018, 122, 8320-8325.	2.5	2
17	Ring-polymer molecular dynamics study on rate coefficients of hydrogen abstraction of methane: A reduced-dimensional model. Chemical Physics Letters, 2018, 706, 383-387.	2.6	2
18	Adiabatic models for the quantum dynamics of surface scattering with lattice effects. Physical Chemistry Chemical Physics, 2022, 24, 16415-16436.	2.8	1