Xiao-long Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4889858/publications.pdf

Version: 2024-02-01

18	172	1163117 8	1125743 13
papers	citations	h-index	g-index

19	19	19	164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The origins of intra- and inter-molecular vibrational couplings: A case study of H2O-Ar on full and reduced-dimensional potential energy surface. Journal of Chemical Physics, 2016, 144, 014301.	3.0	31
2	Design, Synthesis, and Characterization of Crosslinkable Doped NLO Materials Based on Polyurethanes Containing Spindleâ€Type Chromophores. Macromolecular Chemistry and Physics, 2011, 212, 879-886.	2.2	20
3	Analytic Morse/long-range potential energy surfaces and predicted infrared spectra for COâ€“H2 dimer and frequency shifts of CO in (para-H2)Nâ€^N = 1â€“20 clusters. Journal of Chemical Physics, 2013, 139, 164315.	3.0	19
4	A full-dimension intra- and inter-molecular ab initio potential energy surface and predicted infrared spectra for H2O-He. Journal of Molecular Spectroscopy, 2016, 330, 217-227.	1.2	18
5	Intermolecular configurations dominated by quadrupoleâ€“quadrupole electrostatic interactions: explicit correlation treatment of the five-dimensional potential energy surface and infrared spectra for the COâ€“N₂ complex. Physical Chemistry Chemical Physics, 2018, 20, 2036-2047.	2.8	15
6	Electricâ€fieldâ€induced layerâ€byâ€layer fabrication of stable secondâ€order nonlinear optical films. Polymer International, 2009, 58, 933-938.	3.1	14
7	Novel photo-cross-linkable polymer bearing spindle-type chromophores for second-order non-linear optical materials. Journal of Materials Science, 2011, 46, 4458-4464.	3.7	14
8	Analytic Morse/long-range potential energy surfaces and â€œadiabatic-hindered-rotorâ€•treatment for a symmetric top-linear molecule dimer: A case study of CH3Fâ€“H2. Journal of Chemical Physics, 2018, 148, 124302.	3.0	10
9	Full quantum calculation of the rovibrational states and intensities for a symmetric top-linear molecule dimer: Hamiltonian, basis set, and matrix elements. Journal of Chemical Physics, 2019, 151, 074301.	3.0	6
10	Explicitly correlated ab initio potential energy surface and predicted rovibrational spectra for H2Oâ€“N2 and D2Oâ€“N2 complexes. Journal of Chemical Physics, 2020, 153, 054303.	3.0	6
11	Microwave and infrared spectra of COâ€“(pH2)2, COâ€“(oD2)2, and mixed COâ€“pH2â€“He trimers. Theoretical Chemistry Accounts, 2014, 133, 1.	1.4	4
12	The Role of High Excitations in Constructing Sub-spectroscopic Accuracy Intermolecular Potential of He-HCN: Critically Examined by the High-Resolution Spectra with Resonance States. Chinese Journal of Chemical Physics, 2017, 30, 776-788.	1.3	3
13	Comparison for Electron Donor Capability of Carbon-Bound Halogens in Tetrel Bonds. ACS Omega, 2021, 6, 29037-29044.	3.5	3
14	Suppression of Parahydrogen Superfluidity in a Doped Nanoscale Bose Fluid Mixture. Physical Review Letters, 2019, 123, 093001.	7.8	2
15	Analytic intermolecular potential energy surface and first-principles prediction of the rotational profiles for a symmetric top ion-atom complex: A case study of H3O+â€“Ar. Journal of Chemical Physics, 2020, 152, 214302.	3.0	2
16	Vibrationally excited intermolecular potential energy surfaces and the predicted near infrared overtone (v_{OH} = 2 â†•0) spectra of a H₂Oâ€“Ne complex. Physical Chemistry Chemical Physics, 2022, 24, 12937-12949.	2.8	2
17	Theoretical Study of Infrared Spectra of OCS-(pH₂)₂, OCS-(oD₂)₂, OCS-(HD)₂, and Mixed OCS-pH₂-He Trimers. Journal of Physical Chemistry A, 2018, 122, 2915-2926.	2.5	1
18	Three-dimensional ab initio potential energy surface and predicted spectra for the CH₄-Ne complex. Chinese Journal of Chemical Physics, 2021, 34, 874-882.	1.3	1