

Xiao-long Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Vibrationally excited intermolecular potential energy surfaces and the predicted near infrared overtone ($\nu_2 + \nu_3$) OH = 2 \times 0 spectra of a H ₂ O \cdots Ne complex. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12937-12949.	2.8	2
2	Comparison for Electron Donor Capability of Carbon-Bound Halogens in Tetrel Bonds. <i>ACS Omega</i> , 2021, 6, 29037-29044.	3.5	3
3	Three-dimensional <i>ab initio</i> potential energy surface and predicted spectra for the CH ₄ -Ne complex. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 874-882.	1.3	1
4	Explicitly correlated <i>ab initio</i> potential energy surface and predicted rovibrational spectra for H ₂ O \cdots N ₂ and D ₂ O \cdots N ₂ complexes. <i>Journal of Chemical Physics</i> , 2020, 153, 054303.	3.0	6
5	Analytic intermolecular potential energy surface and first-principles prediction of the rotational profiles for a symmetric top ion-atom complex: A case study of H ₃ O ⁺ \cdots Ar. <i>Journal of Chemical Physics</i> , 2020, 152, 214302.	3.0	2
6	Full quantum calculation of the rovibrational states and intensities for a symmetric top-linear molecule dimer: Hamiltonian, basis set, and matrix elements. <i>Journal of Chemical Physics</i> , 2019, 151, 074301.	3.0	6
7	Suppression of Parahydrogen Superfluidity in a Doped Nanoscale Bose Fluid Mixture. <i>Physical Review Letters</i> , 2019, 123, 093001.	7.8	2
8	Theoretical Study of Infrared Spectra of OCS-($\nu_2 + \nu_3$), OCS-($\nu_2 + \nu_3$), OCS-(HD), and Mixed OCS-($\nu_2 + \nu_3$)-He Trimers. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2915-2926.	2.5	1
9	Intermolecular configurations dominated by quadrupole \cdots quadrupole electrostatic interactions: explicit correlation treatment of the five-dimensional potential energy surface and infrared spectra for the CO \cdots N ₂ complex. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2036-2047.	2.8	15
10	Analytic Morse/long-range potential energy surfaces and ϵ -adiabatic-hindered-rotor treatment for a symmetric top-linear molecule dimer: A case study of CH ₃ F \cdots H ₂ . <i>Journal of Chemical Physics</i> , 2018, 148, 124302.	3.0	10
11	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. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 776-788.	1.3	3
12	The origins of intra- and inter-molecular vibrational couplings: A case study of H ₂ O-Ar on full and reduced-dimensional potential energy surface. <i>Journal of Chemical Physics</i> , 2016, 144, 014301.	3.0	31
13	A full-dimension intra- and inter-molecular <i>ab initio</i> potential energy surface and predicted infrared spectra for H ₂ O-He. <i>Journal of Molecular Spectroscopy</i> , 2016, 330, 217-227.	1.2	18
14	Microwave and infrared spectra of CO \cdots (pH ₂) ₂ , CO \cdots (oD ₂) ₂ , and mixed CO \cdots pH ₂ \cdots He trimers. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	4
15	Analytic Morse/long-range potential energy surfaces and predicted infrared spectra for CO \cdots H ₂ dimer and frequency shifts of CO in ($\nu_2 + \nu_3$) N ₂ \cdots N ₂ = 1 \times 20 clusters. <i>Journal of Chemical Physics</i> , 2013, 139, 164315.	3.0	19
16	Novel photo-cross-linkable polymer bearing spindle-type chromophores for second-order non-linear optical materials. <i>Journal of Materials Science</i> , 2011, 46, 4458-4464.	3.7	14
17	Design, Synthesis, and Characterization of Crosslinkable Doped NLO Materials Based on Polyurethanes Containing Spindle-type Chromophores. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 879-886.	2.2	20
18	Electric-field-induced layer-by-layer fabrication of stable second-order nonlinear optical films. <i>Polymer International</i> , 2009, 58, 933-938.	3.1	14