

Yu Zhai

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

130
citations

1478505

6
h-index

1281871

11
g-index

23
all docs

23
docs citations

23
times ranked

102
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum vibration perturbation approach with polyatomic probe in simulating infrared spectra. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1174-1182.	2.8	2
2	Basis sets dependency in constructing spectroscopy-accuracy <i>Ab Initio</i> global electric dipole moment functions. <i>Chinese Journal of Chemical Physics</i> , 2022, 35, 52-57.	1.3	0
3	Ab initio Morse/long-range potential energy functions plus spectroscopic and thermophysical properties of heteronuclear diatomic complexes of xenon with the rare gases. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 285, 108169.	2.3	7
4	Vibrationally excited intermolecular potential energy surfaces and the predicted near infrared overtone (ν_2) $\text{OH} = 2 \times 0$ spectra of a $\text{H}_2\text{O} \cdots \text{Ne}$ complex. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12937-12949.	2.8	2
5	Ab initio potential energy functions, spectroscopy and thermal physics for krypton-contained rare gas dimers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 288, 108244.	2.3	3
6	Optical and electrical modulation in ultraviolet photodetectors based on organic one-dimensional photochromic arrays. <i>SmartMat</i> , 2021, 2, 388-397.	10.7	22
7	Outside Back Cover: Volume 2 Issue 3. <i>SmartMat</i> , 2021, 2, ii.	10.7	0
8	A new permutation-symmetry-adapted machine learning diabaticization procedure and its application in MgH_2 system. <i>Journal of Chemical Physics</i> , 2021, 155, 214102.	3.0	5
9	Explicitly correlated ab initio potential energy surface and predicted rovibrational spectra for $\text{H}_2\text{O} \cdots \text{N}_2$ and $\text{D}_2\text{O} \cdots \text{N}_2$ complexes. <i>Journal of Chemical Physics</i> , 2020, 153, 054303.	3.0	6
10	Analytic intermolecular potential energy surface and first-principles prediction of the rotational profiles for a symmetric top ion-atom complex: A case study of $\text{H}_3\text{O}^+ \cdots \text{Ar}$. <i>Journal of Chemical Physics</i> , 2020, 152, 214302.	3.0	2
11	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
12	Highly Ordered Semiconducting Polymer Arrays for Sensitive Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15829-15836.	8.0	15
13	Theoretical Study of Infrared Spectra of $\text{OCS}(\text{p})\text{H}_2$, $\text{OCS}(\text{o})\text{D}_2$, $\text{OCS}(\text{HD})_2$, and Mixed $\text{OCS}(\text{p})\text{H}_2\text{-He}$ Trimers. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2915-2926.	2.5	1
14	Constructing high-accuracy intermolecular potential energy surface with multi-dimension Morse/Long-Range model. <i>Molecular Physics</i> , 2018, 116, 843-853.	1.7	11
15	Intermolecular configurations dominated by quadrupole-quadrupole electrostatic interactions: explicit correlation treatment of the five-dimensional potential energy surface and infrared spectra for the $\text{CO} \cdots \text{N}_2$ complex. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2036-2047.	2.8	15
16	Analytic Morse/long-range potential energy surfaces and ϵ -adiabatic-hindered-rotor treatment for a symmetric top-linear molecule dimer: A case study of $\text{CH}_3\text{F} \cdots \text{H}_2$. <i>Journal of Chemical Physics</i> , 2018, 148, 124302.	3.0	10
17	Developments and applications of computational infrared spectroscopy in non-bonded systems: Quantal and classical systems. <i>Chinese Science Bulletin</i> , 2018, 63, 3396-3402.	0.7	1
18	Explicit correlation treatment of the six-dimensional potential energy surface and predicted infrared spectra for $\text{OCS} \cdots \text{H}_2$. <i>Journal of Chemical Physics</i> , 2017, 147, 044313.	3.0	18

#	ARTICLE	IF	CITATIONS
19	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
20	THE ROLE OF SYMMETRIC-STRETCH VIBRATION IN ASYMMETRIC-STRETCH VIBRATIONAL FREQUENCY SHIFT: THE CASE OF 2CH EXCITATION INFRARED SPECTRA OF ACETYLENE-HYDROGEN VAN DER WAALS COMPLEX. , 2016, , .		0
21	HIGH-ACCURATE INTERMOLECULAR POTENTIAL ENERGY SURFACE OF HCN $\hat{\alpha}$ H ₂ COMPLEX WITH INTRAMOLECULAR VIBRATIONAL MODE OF HCN INCLUDED. , 2016, , .		0
22	FIT POINT-WISE AB INITIO CALCULATION POTENTIAL ENERGIES TO A MULTI-DIMENSION MORSE/LONG-RANGE MODEL. , 2016, , .		0