

Xiaoguo Zhou

List of Publications by Year in descending order

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82
papers

1,632
citations

331670

21
h-index

330143

37
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82
all docs

82
docs citations

82
times ranked

1697
citing authors

#	ARTICLE	IF	CITATIONS
1	New C-H Stretching Vibrational Spectral Features in the Raman Spectra of Gaseous and Liquid Ethanol. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8971-8978.	3.1	117
2	Production of jet and diesel biofuels from renewable lignocellulosic biomass. <i>Applied Energy</i> , 2015, 150, 128-137.	10.1	106
3	The Microscopic Structure of Liquid Methanol from Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3567-3573.	2.6	98
4	Regioselective radical α -borylation of α,β -unsaturated carbonyl compounds for direct synthesis of α -borylcarbonyl molecules. <i>Nature Communications</i> , 2019, 10, 1934.	12.8	80
5	A threshold photoelectron-photoion coincidence spectrometer with double velocity imaging using synchrotron radiation. <i>Review of Scientific Instruments</i> , 2009, 80, 113101.	1.3	74
6	Complete Raman Spectral Assignment of Methanol in the C-H Stretching Region. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4377-4384.	2.5	66
7	Boosting photo-Fenton process enabled by ligand-to-cluster charge transfer excitations in iron-based metal organic framework. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120882.	20.2	58
8	Solvent effects on the triplet-triplet annihilation upconversion of diiodo-Bodipy and perylene. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1516-1525.	2.8	52
9	Near-infrared to violet triplet-triplet annihilation fluorescence upconversion of Os(π) complexes by strong spin-forbidden transition. <i>Dalton Transactions</i> , 2019, 48, 11763-11771.	3.3	52
10	Identification of Alcohol Conformers by Raman Spectra in the C-H Stretching Region. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3209-3217.	2.5	45
11	Reorientation dynamics in liquid alcohols from Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 82-88.	2.5	44
12	Triplet-triplet annihilation upconversion kinetics of C ₆₀ -Bodipy dyads as organic triplet photosensitizers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22049-22060.	2.8	42
13	Regioselective radical hydroboration of electron-deficient alkenes: synthesis of α -boryl functionalized molecules. <i>Chemical Communications</i> , 2019, 55, 11904-11907.	4.1	39
14	Simultaneously High Upconversion Efficiency and Large Anti-Stokes Shift by Using Os(II) Complex Dyad as Triplet Photosensitizer. <i>Advanced Optical Materials</i> , 2020, 8, 1902157.	7.3	36
15	Amyloid formation kinetics of hen egg white lysozyme under heat and acidic conditions revealed by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 629-640.	2.5	31
16	Overlapping spectral features and new assignment of 2-propanol in the C-H stretching region. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 259-265.	2.5	30
17	Dissociative photoionization of methyl chloride studied with threshold photoelectron-photoion coincidence velocity imaging. <i>Journal of Chemical Physics</i> , 2012, 136, 034304.	3.0	27
18	Multistate Mechanism of Lysozyme Denaturation through Synchronous Analysis of Raman Spectra. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10660-10667.	2.6	25

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19	Câ€“Hâ€“O Interaction in Methanolâ€“Water Solution Revealed from Raman Spectroscopy and Theoretical Calculations. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8179-8187.	2.6	25
20	Hydrogen migration as a potential driving force in the thermal decomposition of dimethoxymethane: New insights from pyrolysis imaging photoelectron photoion coincidence spectroscopy and computations. <i>Combustion and Flame</i> , 2020, 222, 123-132.	5.2	24
21	Dissociation limit and dissociation dynamic of CF ₄ ⁺ : Application of threshold photoelectron-photoion coincidence velocity imaging. <i>Journal of Chemical Physics</i> , 2013, 138, 094306.	3.0	23
22	Precise measurement of the depolarization ratio from photoacoustic Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 1206-1211.	2.5	22
23	Ratiometric detection of Raman hydration shell spectra. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1231-1238.	2.5	22
24	Predissociation dynamics of N ₂ O ⁺ at the A ² Σ ⁺ state: Three pathways to form NO ⁺ (¹ Σ ⁺) revealed from ion velocity imaging. <i>Journal of Chemical Physics</i> , 2010, 132, 244309.	3.0	20
25	Dissociation of Vibrational State-Selected O ₂ ⁺ Ions in the B ² Σ ^g -State Using Threshold Photoelectronâ€“Photoion Coincidence Velocity Imaging. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6339-6346.	2.5	20
26	NO ⁺ formation pathways in dissociation of N ₂ O ⁺ ions at the C ² Σ ⁺ state revealed from threshold photoelectronâ€“photoion coincidence velocity imaging. <i>Journal of Chemical Physics</i> , 2011, 134, 054312.	3.0	20
27	Application of a bodipyâ€“C ₇₀ dyad in tripletâ€“triplet annihilation upconversion of perylene as a metal-free photosensitizer. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5598-5608.	2.8	20
28	C ₂ ² â€“H stretching vibration as a new probe for conformation of n-propanol in gaseous and liquid states. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10563-10572.	2.8	17
29	Promotion Effect of Succinimide on Amyloid Fibrillation of Hen Egg-White Lysozyme. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8057-8064.	2.6	17
30	Double-edged effects of aluminium ions on amyloid fibrillation of hen egg-white lysozyme. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 929-938.	7.5	17
31	Probing Orientation-Specific Chargeâ€“Dipole Interactions between Hexafluoroisopropanol and Halides: A Joint Photoelectron Spectroscopy and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2036-2045.	2.5	17
32	The ionization energy of the vinyl radical: a Mexican standoff with a happy ending. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22238-22247.	2.8	15
33	Cryogenic â€œiodide-Taggingâ€“Photoelectron Spectroscopy: A Sensitive Probe for Specific Binding Sites of Amino Acids. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4346-4352.	4.6	15
34	Efficient Tripletâ€“Triplet Annihilation Upconversion in Solution and Hydrogel Enabled by an S-T Absorption Os(II) Complex Dyad with an Elongated Triplet Lifetime. <i>Inorganic Chemistry</i> , 2021, 60, 19001-19008.	4.0	15
35	Ab initio molecular dynamics investigations on the SN ₂ reactions of OH ⁺ with NH ₂ F and NH ₂ Cl. <i>Computational and Theoretical Chemistry</i> , 2011, 977, 86-91.	2.5	14
36	Synchrotron threshold photoelectron photoion coincidence spectroscopy of radicals produced in a pyrolysis source: The methyl radical. <i>Chemical Physics Letters</i> , 2016, 664, 237-241.	2.6	14

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37	Dissociative Photoionization of Dimethyl Carbonate: The More It Is Cut, the Bigger the Fragment Ion. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2748-2759.	2.5	14
38	Direct Experimental Evidence for Dissociative Photoionization of Oxygen Molecule via $2^2\Sigma^+u$ Ionic σ -Optical Dark-State. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9459-9465.	2.5	13
39	Electron transfer reactions between 1,8-dihydroxyanthraquinone and pyrimidines: A laser flash photolysis study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 269, 42-48.	3.9	12
40	New spectral assignment of n -propanol in the C-H stretching region. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1385-1393.	2.5	12
41	A guinea pig for conformer selectivity and mechanistic insights into dissociative ionization by photoelectron photoion coincidence: fluorocyclohexane. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2351-2360.	2.8	12
42	Determining the Energy Gap between the S_1 and T_1 States of Thermally Activated Delayed Fluorescence Molecular Systems Using Transient Fluorescence Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2507-2515.	4.6	12
43	Dissociation of internal energy-selected methyl bromide ion revealed from threshold photoelectron-photoion coincidence velocity imaging. <i>Journal of Chemical Physics</i> , 2014, 140, 044312.	3.0	10
44	Dissociation dynamics of energy-selected ions using threshold photoelectron-photoion coincidence velocity imaging. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 11-22.	1.3	10
45	Solvent effects on triplet-triplet annihilation upconversion kinetics of perylene with a Bodipy-phenyl-C60 photosensitizer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26372-26382.	2.8	10
46	Spectroscopic evidence for intact carbonic acid stabilized by halide anions in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19459-19467.	2.8	10
47	Conformers, electronic states, and diabatical conical intersections in the valence photoelectron spectroscopy of halocyclohexanes. <i>Journal of Chemical Physics</i> , 2020, 153, 054305.	3.0	9
48	Valence Photoionization and Energetics of Vanillin, a Sustainable Feedstock Candidate. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3327-3340.	2.5	9
49	A laser flash photolysis study of amino acids and dipeptides using 4-nitroquinoline 1-oxide as a photosensitizer: The pH dependence. <i>Research on Chemical Intermediates</i> , 2000, 26, 715-725.	2.7	8
50	Cl-Loss dynamics in the dissociative photoionization of CF_3Cl with threshold photoelectron-photoion coincidence imaging. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4917-4925.	2.8	8
51	Determinant Factor for Thermodynamic Stability of Sulfuric Acid-Amine Complexes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10246-10257.	2.5	8
52	Dissociative photoionization of CF_3Cl via the C^2E and D^2E states: competition of the C-F and C-Cl bond cleavages. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4998-5005.	2.8	7
53	Two new Bodipy-carbazole derivatives as metal-free photosensitizers in photocatalytic oxidation of 1,5-dihydroxynaphthalene. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112713.	3.9	7
54	Ab initio calculations on the reaction mechanism for the radical reaction CH_3+ClO . <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3662-3666.	2.8	6

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55	Ab initio calculations of the potential energy surface for the reaction $N(2D)+CH_3F$. <i>Chemical Physics Letters</i> , 2001, 339, 117-124.	2.6	6
56	K-Dependent Predissociation Dynamics of CS_2 in the 210~216 nm Region. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5382-5387.	2.5	6
57	Static and dynamic reaction pathways involved in the reaction of $O^{\dot{\cdot}}$ and CH_3F . <i>Computational and Theoretical Chemistry</i> , 2010, 947, 1-8.	1.5	6
58	Probe of Alcohol Structures in the Gas and Liquid States Using $C-H$ Stretching Raman Spectroscopy. <i>Sensors</i> , 2018, 18, 2061.	3.8	6
59	Study on the resonance-enhanced multiphoton ionization of the 4s and $\dot{C}f$ states of SF_2 radicals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 108, 135-139.	1.7	5
60	Cl-Loss Dynamics of Vinyl Chloride Cations in the $B^{2\Sigma^+}$ State: Role of the $C^{2\Sigma^+}$ State. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4743-4753.	2.5	5
61	$C-F$ and $C-H$ bond cleavage mechanisms of trifluoromethane ions in low-lying electronic states: threshold photoelectron-photoion coincidence imaging and theoretical investigations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13808-13817.	2.8	5
62	Dissociative Photoionization of Chloro-, Bromo-, and Iodocyclohexane: Thermochemistry and the Weak $C-Br$ Bond in the Cation. <i>Journal of Physical Chemistry A</i> , 2021, 125, 646-656.	2.5	5
63	Theoretical studies on mechanism for the reaction of the excited nitrogen atom and chloromethane. <i>Chemical Physics</i> , 2002, 279, 15-21.	1.9	4
64	Dynamic reaction pathways of anionic products on the exit-channel potential energy surface for the reaction of $O^{\dot{\cdot}}$ with C_2H_4 . <i>Computational and Theoretical Chemistry</i> , 2010, 958, 41-47.	1.5	4
65	New insight into dissociative photoionization of N_2O at ~ 420 eV using threshold photoelectron-photoion coincidence velocity imaging. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 196, 43-48.	1.7	4
66	Photochemical Reaction Between 1,2-Naphthoquinone and Adenine in Binary Water-Acetonitrile Solutions. <i>Photochemistry and Photobiology</i> , 2018, 94, 61-68.	2.5	4
67	Laser-induced transverse voltage in (111)-oriented TiO_2 epitaxial thin films with cubic structure. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	4
68	Characterisation of the first electronically excited state of protonated acetylene $C_2H_3^+$ by coincident imaging photoelectron spectroscopy. <i>Molecular Physics</i> , 2021, 119, e1825851.	1.7	4
69	Observation of Conformational Simplification upon N -Methylation on Amino Acid Iodide Clusters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2780-2787.	4.6	4
70	Electron Affinity and Electronic Structure of Hexafluoroacetone (HFA) Revealed by Photodetaching the $[HFA]^{-}$ Radical Anion. <i>Journal of Physical Chemistry A</i> , 2021, 125, 746-753.	2.5	4
71	Observation and Exploitation of Spin-Orbit Excited Dipole-Bound States in Ion-Molecule Clusters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11022-11028.	4.6	4
72	The role of weak $C-H\cdots O$ hydrogen bond in alcohol-water mixtures. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 1551-1559.	2.5	3

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73	STUDIES AND AB INITIO CALCULATIONS ON THE CHARACTERISTICS OF THE C STATE OF SF ₂ . Surface Review and Letters, 2002, 09, 69-75.	1.1	2
74	Observation of the 5p Rydberg states of sulfur difluoride radical by resonance-enhanced multiphoton ionization spectroscopy. Journal of Chemical Physics, 2008, 128, 144306.	3.0	2
75	Theoretical study on the reaction of Be(3P) with methane. Computational and Theoretical Chemistry, 2010, 942, 66-70.	1.5	2
76	Ionization energy and thermochemistry of CF ₂ Cl ₂ determined from threshold photoelectron spectroscopy. Chemical Physics Letters, 2021, 774, 138631.	2.6	2
77	A plethora of isomerization processes and hydrogen scrambling in the fragmentation of the methanol dimer cation: a PEPICO study. Physical Chemistry Chemical Physics, 2022, 24, 1437-1446.	2.8	2
78	Raman spectra of 1,2,4-Triazole-3-carboxylate solution. Chinese Journal of Chemical Physics, 2019, 32, 553-562.	1.3	1
79	Ro-vibrational Distribution of NO ⁺ Dissociated from NO ₂ ⁺ Ions in the a ³ B ₂ and b ³ A ₂ States: A Slow "Impulsive" Dissociation Example Revealed from Threshold Photoelectron "Photoion Coincidence Imaging". Journal of Physical Chemistry A, 2021, 125, 3316-3326.	2.5	1
80	Enhanced single-photon double ionization near threshold of substituted benzenes by synchrotron radiation. Chemical Physics Letters, 2021, 785, 139144.	2.6	1
81	Theoretical investigation of the reaction mechanism of atomic oxygen radical anion with pyridine. Computational and Theoretical Chemistry, 2010, 958, 82-91.	1.5	0
82	Threshold photoelectron spectroscopy and density functional theory studies on the CF ₂ Cl ₂ ionization energies towards the B ₂ B ₁ and C ₂ A ₁ ionic states. Journal of Molecular Spectroscopy, 2021, 380, 111506.	1.2	0