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 g-index
82 all docs	82 docs citations	82 times ranked	1697 citing authors

#	Article	IF	Citations
1	Boosting photo-Fenton process enabled by ligand-to-cluster charge transfer excitations in iron-based metal organic framework. Applied Catalysis B: Environmental, 2022, 302, 120882.	20.2	58
2	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
3	Determining the Energy Gap between the S₁ and T₁ States of Thermally Activated Delayed Fluorescence Molecular Systems Using Transient Fluorescence Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 2507-2515.	4.6	12
4	The role of weak Câ€“HÂ·Â·Â·O hydrogen bond in alcoholâ€“water mixtures. Journal of Raman Spectroscopy, 2022, 53, 1551-1559.	2.5	3
5	Characterisation of the first electronically excited state of protonated acetylene C2H3+ by coincident imaging photoelectron spectroscopy. Molecular Physics, 2021, 119, e1825851.	1.7	4
6	Dissociative Photoionization of Chloro-, Bromo-, and Iodocyclohexane: Thermochemistry and the Weak Câ€“Br Bond in the Cation. Journal of Physical Chemistry A, 2021, 125, 646-656.	2.5	5
7	Observation of Conformational Simplification upon N-Methylation on Amino Acid Iodide Clusters. Journal of Physical Chemistry Letters, 2021, 12, 2780-2787.	4.6	4
8	Ro-vibrational Distribution of NO⁺ Dissociated from NO₂⁺ Ions in the a³B₂ and b³A₂ States: A Slow â€œImpulsiveâ€• Dissociation Example Revealed from Threshold Photoelectronâ€“Photoion Coincidence Imaging. Journal of Physical Chemistry A, 2021, 125, 3316-3326.	2.5	1
9	Valence Photoionization and Energetics of Vanillin, a Sustainable Feedstock Candidate. Journal of Physical Chemistry A, 2021, 125, 3327-3340.	2.5	9
10	Ionization energy and thermochemistry of CF2Cl2 determined from threshold photoelectron spectroscopy. Chemical Physics Letters, 2021, 774, 138631.	2.6	2
11	Threshold photoelectron spectroscopy and density functional theory studies on the CF2Cl2 ionization energies towards the B2B1 and C2A1 ionic states. Journal of Molecular Spectroscopy, 2021, 380, 111506.	1.2	0
12	Electron Affinity and Electronic Structure of Hexafluoroacetone (HFA) Revealed by Photodetaching the [HFA]^{â€¢â€“} Radical Anion. Journal of Physical Chemistry A, 2021, 125, 746-753.	2.5	4
13	Enhanced single-photon double ionization near threshold of substituted benzenes by synchrotron radiation. Chemical Physics Letters, 2021, 785, 139144.	2.6	1
14	Observation and Exploitation of Spinâ€“Orbit Excited Dipole-Bound States in Ionâ€“Molecule Clusters. Journal of Physical Chemistry Letters, 2021, 12, 11022-11028.	4.6	4
15	Efficient Tripletâ€“Triplet Annihilation Upconversion in Solution and Hydrogel Enabled by an S-T Absorption Os(II) Complex Dyad with an Elongated Triplet Lifetime. Inorganic Chemistry, 2021, 60, 19001-19008.	4.0	15
16	A guinea pig for conformer selectivity and mechanistic insights into dissociative ionization by photoelectron photoion coincidence: fluorocyclohexane. Physical Chemistry Chemical Physics, 2020, 22, 2351-2360.	2.8	12
17	Hydrogen migration as a potential driving force in the thermal decomposition of dimethoxymethane: New insights from pyrolysis imaging photoelectron photoion coincidence spectroscopy and computations. Combustion and Flame, 2020, 222, 123-132.	5.2	24
18	Determinant Factor for Thermodynamic Stability of Sulfuric Acidâ€“Amine Complexes. Journal of Physical Chemistry A, 2020, 124, 10246-10257.	2.5	8

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19	Conformers, electronic states, and diabolical conical intersections in the valence photoelectron spectroscopy of halocyclohexanes. Journal of Chemical Physics, 2020, 153, 054305.	3.0	9
20	Solvent effects on tripletâ€“triplet annihilation upconversion kinetics of perylene with a Bodipy-phenyl-C60 photosensitizer. Physical Chemistry Chemical Physics, 2020, 22, 26372-26382.	2.8	10
21	Câ€“F and Câ€“H bond cleavage mechanisms of trifluoromethane ions in low-lying electronic states: threshold photoelectronâ€“photoion coincidence imaging and theoretical investigations. Physical Chemistry Chemical Physics, 2020, 22, 13808-13817.	2.8	5
22	Cryogenic â€œIodide-Taggingâ€•Photoelectron Spectroscopy: A Sensitive Probe for Specific Binding Sites of Amino Acids. Journal of Physical Chemistry Letters, 2020, 11, 4346-4352.	4.6	15
23	Two new Bodipy-carbazole derivatives as metal-free photosensitizers in photocatalytic oxidation of 1,5-dihydroxynaphthalene. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112713.	3.9	7
24	Spectroscopic evidence for intact carbonic acid stabilized by halide anions in the gas phase. Physical Chemistry Chemical Physics, 2020, 22, 19459-19467.	2.8	10
25	Simultaneously High Upconversion Efficiency and Large Antiâ€Stokes Shift by Using Os(II) Complex Dyad as Triplet Photosensitizer. Advanced Optical Materials, 2020, 8, 1902157.	7.3	36
26	Probing Orientation-Specific Chargeâ€“Dipole Interactions between Hexafluoroisopropanol and Halides: A Joint Photoelectron Spectroscopy and Theoretical Study. Journal of Physical Chemistry A, 2020, 124, 2036-2045.	2.5	17
27	Laser-induced transverse voltage in (111)-oriented TiO1+Î´ epitaxial thin films with cubic structure. Applied Physics Letters, 2019, 114, .	3.3	4
28	Near-infrared to violet tripletâ€“triplet annihilation fluorescence upconversion of Os(<scp>ii</scp>) complexes by strong spin-forbidden transition. Dalton Transactions, 2019, 48, 11763-11771.	3.3	52
29	Dissociation dynamics of energy-selected ions using threshold photoelectron-photoion coincidence velocity imaging. Chinese Journal of Chemical Physics, 2019, 32, 11-22.	1.3	10
30	Regioselective radical hydroboration of electron-deficient alkenes: synthesis of Î±-boryl functionalized molecules. Chemical Communications, 2019, 55, 11904-11907.	4.1	39
31	Promotion Effect of Succinimide on Amyloid Fibrillation of Hen Egg-White Lysozyme. Journal of Physical Chemistry B, 2019, 123, 8057-8064.	2.6	17
32	Dissociative photoionization of CF₃Cl via the C²E and D²E states: competition of the Câ€“F and Câ€“Cl bond cleavages. Physical Chemistry Chemical Physics, 2019, 21, 4998-5005.	2.8	7
33	Double-edged effects of aluminium ions on amyloid fibrillation of hen egg-white lysozyme. International Journal of Biological Macromolecules, 2019, 132, 929-938.	7.5	17
34	Regioselective radical Î±-borylation of Î±,Î²-unsaturated carbonyl compounds for direct synthesis of Î±-borylcarbonyl molecules. Nature Communications, 2019, 10, 1934.	12.8	80
35	Amyloid formation kinetics of hen egg white lysozyme under heat and acidic conditions revealed by Raman spectroscopy. Journal of Raman Spectroscopy, 2019, 50, 629-640.	2.5	31
36	The ionization energy of the vinyl radical: a Mexican standoff with a happy ending. Physical Chemistry Chemical Physics, 2019, 21, 22238-22247.	2.8	15

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37	Raman spectra of 1,2,4-Triazole-3-carboxylate solution. Chinese Journal of Chemical Physics, 2019, 32, 553-562.	1.3	1
38	Cl-Loss dynamics in the dissociative photoionization of CF₃Cl with threshold photoelectronâ€“photoion coincidence imaging. Physical Chemistry Chemical Physics, 2018, 20, 4917-4925.	2.8	8
39	Photochemical Reaction Between 1,2â€Naphthoquinone and Adenine in Binary Waterâ€Acetonitrile Solutions. Photochemistry and Photobiology, 2018, 94, 61-68.	2.5	4
40	Application of a bodipyâ€“C₇₀ dyad in tripletâ€“triplet annihilation upconversion of perylene as a metal-free photosensitizer. Organic and Biomolecular Chemistry, 2018, 16, 5598-5608.	2.8	20
41	Probe of Alcohol Structures in the Gas and Liquid States Using Câ€“H Stretching Raman Spectroscopy. Sensors, 2018, 18, 2061.	3.8	6
42	Cl-Loss Dynamics of Vinyl Chloride Cations in the B²Aâ€³ State: Role of the C²Aâ€² State. Journal of Physical Chemistry A, 2017, 121, 4743-4753.	2.5	5
43	Dissociative Photoionization of Dimethyl Carbonate: The More It Is Cut, the Bigger the Fragment Ion. Journal of Physical Chemistry A, 2017, 121, 2748-2759.	2.5	14
44	Solvent effects on the tripletâ€“triplet annihilation upconversion of diiodo-Bodipy and perylene. Physical Chemistry Chemical Physics, 2017, 19, 1516-1525.	2.8	52
45	Tripletâ€“triplet annihilation upconversion kinetics of C₆₀â€“Bodipy dyads as organic triplet photosensitizers. Physical Chemistry Chemical Physics, 2017, 19, 22049-22060.	2.8	42
46	Câ€“HÂ·Â·Â·O Interaction in Methanolâ€“Water Solution Revealed from Raman Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry B, 2017, 121, 8179-8187.	2.6	25
47	Ratiometric detection of Raman hydration shell spectra. Journal of Raman Spectroscopy, 2016, 47, 1231-1238.	2.5	22
48	C_{Î²}â€“H stretching vibration as a new probe for conformation of n-propanol in gaseous and liquid states. Physical Chemistry Chemical Physics, 2016, 18, 10563-10572.	2.8	17
49	Multistate Mechanism of Lysozyme Denaturation through Synchronous Analysis of Raman Spectra. Journal of Physical Chemistry B, 2016, 120, 10660-10667.	2.6	25
50	New spectral assignment of nâ€propanol in the Câ€•H stretching region. Journal of Raman Spectroscopy, 2016, 47, 1385-1393.	2.5	12
51	Synchrotron threshold photoelectron photoion coincidence spectroscopy of radicals produced in a pyrolysis source: The methyl radical. Chemical Physics Letters, 2016, 664, 237-241.	2.6	14
52	Identification of Alcohol Conformers by Raman Spectra in the Câ€“H Stretching Region. Journal of Physical Chemistry A, 2015, 119, 3209-3217.	2.5	45
53	Production of jet and diesel biofuels from renewable lignocellulosic biomass. Applied Energy, 2015, 150, 128-137.	10.1	106
54	Overlapping spectral features and new assignment of 2â€propanol in the Câ€“H stretching region. Journal of Raman Spectroscopy, 2014, 45, 259-265.	2.5	30

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55	Dissociation of internal energy-selected methyl bromide ion revealed from threshold photoelectron-photoion coincidence velocity imaging. Journal of Chemical Physics, 2014, 140, 044312.	3.0	10
56	New insight into dissociative photoionization of N2O at âˆ¼20 eV using threshold photoelectronâ€“photoion coincidence velocity imaging. Journal of Electron Spectroscopy and Related Phenomena, 2014, 196, 43-48.	1.7	4
57	Electron transfer reactions between 1,8-dihydroxyanthraquinone and pyrimidines: A laser flash photolysis study. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 269, 42-48.	3.9	12
58	Complete Raman Spectral Assignment of Methanol in the Câ€“H Stretching Region. Journal of Physical Chemistry A, 2013, 117, 4377-4384.	2.5	66
59	Dissociation limit and dissociation dynamic of CF4+: Application of threshold photoelectron-photoion coincidence velocity imaging. Journal of Chemical Physics, 2013, 138, 094306.	3.0	23
60	Dissociative photoionization of methyl chloride studied with threshold photoelectron-photoion coincidence velocity imaging. Journal of Chemical Physics, 2012, 136, 034304.	3.0	27
61	Direct Experimental Evidence for Dissociative Photoionization of Oxygen Molecule via ²Î£_u^{â€“} Ionic â€œOptical Darkâ€•State. Journal of Physical Chemistry A, 2012, 116, 9459-9465.	2.5	13
62	Reorientation dynamics in liquid alcohols from Raman spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 82-88.	2.5	44
63	Dissociation of Vibrational State-Selected O2+Ions in the B2Î£gÂ¯State Using Threshold Photoelectronâ€“Photoion Coincidence Velocity Imaging. Journal of Physical Chemistry A, 2011, 115, 6339-6346.	2.5	20
64	Ab initio molecular dynamics investigations on the SN2 reactions of OHâ¯ with NH2F and NH2Cl. Computational and Theoretical Chemistry, 2011, 977, 86-91.	2.5	14
65	NO+ formation pathways in dissociation of N2O+ ions at the C2Î£+ state revealed from threshold photoelectronâ€“photoion coincidence velocity imaging. Journal of Chemical Physics, 2011, 134, 054312.	3.0	20
66	Static and dynamic reaction pathways involved in the reaction of Oâ¯ and CH3F. Computational and Theoretical Chemistry, 2010, 947, 1-8.	1.5	6
67	Theoretical study on the reaction of Be(3P) with methane. Computational and Theoretical Chemistry, 2010, 942, 66-70.	1.5	2
68	Dynamic reaction pathways of anionic products on the exit-channel potential energy surface for the reaction of Oâ¯ with C2H4. Computational and Theoretical Chemistry, 2010, 958, 41-47.	1.5	4
69	Theoretical investigation of the reaction mechanism of atomic oxygen radical anion with pyridine. Computational and Theoretical Chemistry, 2010, 958, 82-91.	1.5	0
70	Predissociation dynamics of N2O+ at the Aâ€‰Î£2+ state: Three pathways to form NO+(Î£1+) revealed from ion velocity imaging. Journal of Chemical Physics, 2010, 132, 244309.	3.0	20
71	The Microscopic Structure of Liquid Methanol from Raman Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 3567-3573.	2.6	98
72	A threshold photoelectron-photoion coincidence spectrometer with double velocity imaging using synchrotron radiation. Review of Scientific Instruments, 2009, 80, 113101.	1.3	74

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73	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
74	New Câ”H Stretching Vibrational Spectral Features in the Raman Spectra of Gaseous and Liquid Ethanolâ€. Journal of Physical Chemistry C, 2007, 111, 8971-8978.	3.1	117
75	K-Dependent Predissociation Dynamics of CS2in the 210â”216 nm Region. Journal of Physical Chemistry A, 2007, 111, 5382-5387.	2.5	6
76	Precise measurement of the depolarization ratio from photoacoustic Raman spectroscopy. Journal of Raman Spectroscopy, 2007, 38, 1206-1211.	2.5	22
77	STUDIES AND AB INITIO CALCULATIONS ON THE CHARACTERISTICS OF THE C STATE OF SF2. Surface Review and Letters, 2002, 09, 69-75.	1.1	2
78	Theoretical studies on mechanism for the reaction of the excited nitrogen atom and chloromethane. Chemical Physics, 2002, 279, 15-21.	1.9	4
79	Ab initio calculations on the reaction mechanism for the radical reaction CH3+ClO. Physical Chemistry Chemical Physics, 2001, 3, 3662-3666.	2.8	6
80	Ab initio calculations of the potential energy surface for the reaction N(2D)+CH3F. Chemical Physics Letters, 2001, 339, 117-124.	2.6	6
81	Study on the resonance-enhanced multiphoton ionization of the 4s and Cl*f* states of SF2 radicals. Journal of Electron Spectroscopy and Related Phenomena, 2000, 108, 135-139.	1.7	5
82	A laser flash photolysis study of amino acids and dipeptides using 4-nitroquinoline 1-oxide as a photosensitizer: The pH dependence. Research on Chemical Intermediates, 2000, 26, 715-725.	2.7	8