

Gao-Lei Hou

List of Publications by Year in descending order

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78
papers

1,131
citations

471509

17
h-index

501196

28
g-index

80
all docs

80
docs citations

80
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational design of an argon-binding superelectrophilic anion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8167-8172.	7.1	69
2	Electronic Structure and Stability of $[B_{12}X_{12}]^{2-}$ ($X = F, At$): A Combined Photoelectron Spectroscopic and Theoretical Study. Journal of the American Chemical Society, 2017, 139, 14749-14756.	13.7	60
3	Negative Ion Photoelectron Spectroscopy Reveals Thermodynamic Advantage of Organic Acids in Facilitating Formation of Bisulfate Ion Clusters: Atmospheric Implications. Journal of Physical Chemistry Letters, 2013, 4, 779-785.	4.6	53
4	Spectroscopic Characterization, Computational Investigation, and Comparisons of ECX^+ ($E = As, P, \text{ and } N; X = S \text{ and } O$) Anions. Journal of the American Chemical Society, 2017, 139, 8922-8930.	13.7	48
5	The Diagnostics of Laser-Induced Fluorescence (LIF) Spectra of PAHs in Flame with TD-DFT: Special Focus on Five-Membered Ring. Journal of Physical Chemistry A, 2015, 119, 13009-13017.	2.5	46
6	Artificial sodium-selective ionic device based on crown-ether crystals with subnanometer pores. Nature Communications, 2021, 12, 5231.	12.8	46
7	A Molecular Precursor to Phosphaethyne and Its Application in Synthesis of the Aromatic 1,2,3,4-Phosphatriazolate Anion. Journal of the American Chemical Society, 2016, 138, 6731-6734.	13.7	40
8	Emergence of Solvent-Separated Na^+Cl^- Ion Pair in Salt Water: Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry Letters, 2017, 8, 13-20.	4.6	37
9	Probing the Low-Lying Electronic States of Cyclobutanetetraone (C_4O_4) and Its Radical Anion: A Low-Temperature Anion Photoelectron Spectroscopic Approach. Journal of Physical Chemistry Letters, 2012, 3, 304-308.	4.6	35
10	Water Splitting by C_{60} -Supported Vanadium Single Atoms. Angewandte Chemie - International Edition, 2021, 60, 27095-27101.	13.8	25
11	Properties of perhalogenated $\{B_{10}\}$ and $\{B_{11}\}$ multiply charged anions and a critical comparison with $\{B_{12}\}$ in the gas and the condensed phase. Physical Chemistry Chemical Physics, 2019, 21, 5903-5915.	2.8	24
12	Communication: Solute anisotropy effects in hydrated anion and neutral clusters. Journal of Chemical Physics, 2013, 138, 031101.	3.0	22
13	Formation of $(HCOO^+)(H_2SO_4)$ Anion Clusters: Violation of Gas-Phase Acidity Predictions. Journal of the American Chemical Society, 2017, 139, 11321-11324.	13.7	22
14	The structures of cationic gold clusters probed by far-infrared spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 11572-11577.	2.8	21
15	Photoelectron spectroscopy and theoretical study of $M(IO_3)_2^+$ ($M = H, Li, Na, K$): Structural evolution, optical isomers, and hyperhalogen behavior. Journal of Chemical Physics, 2013, 139, 044312.	3.0	19
16	Microsolvation of sodium acetate in water: Anion photoelectron spectroscopy and <i>ab initio</i> calculations. Journal of Chemical Physics, 2015, 143, 054302.	3.0	19
17	Negative ion photoelectron spectroscopy confirms the prediction that D_{3h} carbon trioxide (CO_3) has a singlet ground state. Chemical Science, 2016, 7, 1142-1150.	7.4	19
18	Microsolvation of $LiBO_2$ in water: anion photoelectron spectroscopy and <i>ab initio</i> calculations. Physical Chemistry Chemical Physics, 2015, 17, 9135-9147.	2.8	18

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19	Photoelectron Spectroscopy and <i>ab initio</i> Calculations of $\text{Li}(\text{H}_2\text{O})_n^+$ and $\text{Cs}(\text{H}_2\text{O})_n^+$ ($n = 1-6$) Clusters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2845-2856.	2.5	17
20	Structures and energetics of hydrated deprotonated cis-pinonic acid anion clusters and their atmospheric relevance. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10676-10684.	2.8	17
21	Spectroscopic Signature of Proton Location in Proton Bound $\text{HSO}_4^-\cdot\text{H}^+\cdot\text{X}^+$ ($\text{X} = \text{F}, \text{Cl}, \text{Br}, \text{and I}$) Clusters. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6714-6719.	4.6	17
22	Photoelectron spectroscopy and density functional calculations of $\text{Cu}_n\text{BO}_2(\text{OH})^+$ ($n=1,2$) clusters. <i>Chemical Physics Letters</i> , 2012, 545, 21-25.	2.6	16
23	Copper Causes Regiospecific Formation of C_4F_8 -Containing Six-Membered Rings and their Defluorination/Aromatization to C_4F_4 -Containing Rings in Triphenylene/1,4- $\text{C}_4\text{F}_8\text{I}_2$ Reactions. <i>Chemistry - A European Journal</i> , 2016, 22, 874-877.	3.3	16
24	Structural Evolution and Electronic Properties of $\text{V}_n\text{C}_2\text{O}^+$ and $\text{V}_n\text{C}_4\text{O}^+$ ($n = 1-6$) Clusters: Insights from Photoelectron Spectroscopy and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1520-1528.	2.5	16
25	Direct Observation of Hierarchic Molecular Interactions Critical to Biogenic Aerosol Formation. <i>Communications Chemistry</i> , 2018, 1, .	4.5	15
26	Observation of the Reaction Intermediates of Methanol Dehydrogenation by Cationic Vanadium Clusters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4756-4763.	13.8	15
27	Deprotonated Dicarboxylic Acid Homodimers: Hydrogen Bonds and Atmospheric Implications. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2342-2349.	2.5	14
28	Negative ion photoelectron spectroscopy of P_2N_3^+ : electron affinity and electronic structures of $\text{P}_2\text{N}_3^{\text{E}^-}$. <i>Chemical Science</i> , 2016, 7, 4667-4675.	7.4	14
29	Infrared Spectroscopy and Mass Spectrometry of CO_2 Clusters during Nucleation and Growth. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2426-2437.	2.5	14
30	Molecular Specificity and Proton Transfer Mechanisms in Aerosol Prenucleation Clusters Relevant to New Particle Formation. <i>Accounts of Chemical Research</i> , 2020, 53, 2816-2827.	15.6	14
31	Photoelectron spectroscopy of higher bromine and iodine oxide anions: Electron affinities and electronic structures of $\text{BrO}_{2,3}$ and $\text{IO}_2^{\text{E}^-}$ radicals. <i>Journal of Chemical Physics</i> , 2011, 135, 184309.	3.0	13
32	Adsorption of water molecules on sodium chloride trimer. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	13
33	On the dissolution of lithium sulfate in water: anion photoelectron spectroscopy and density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5624-5631.	2.8	13
34	Examining the structural evolution of bicarbonate-water clusters: insights from photoelectron spectroscopy, basin-hopping structural search, and comparison with available IR spectral studies. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17470-17482.	2.8	13
35	Metal-Centered 17-Electron Radicals $\text{CpM}(\text{CO})_3^+$ ($\text{M} = \text{Cr}, \text{Mo}, \text{W}$): A Combined Negative Ion Photoelectron Spectroscopic and Theoretical Study. <i>Organometallics</i> , 2013, 32, 2084-2091.	2.3	12
36	Incremental Tuning Up of Fluorous Phenazine Acceptors. <i>Chemistry - A European Journal</i> , 2016, 22, 3930-3936.	3.3	12

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55	Photodissociation and DFT investigation of $V+(C_2H_4)_n$ ($n=1\text{--}3$) complexes. International Journal of Mass Spectrometry, 2010, 295, 36-42.	1.5	6
56	A Joint Experimental and Computational Study of the Negative Ion Photoelectron Spectroscopy of the 1-Phospha-2,3,4-triazolate Anion, $HCPN_3^-$. Journal of Physical Chemistry A, 2016, 120, 6228-6235.	2.5	6
57	Negative Ion Photoelectron Spectroscopy Confirms the Prediction of a Singlet Ground State for the 1,8-Naphthoquinone Diradical. Journal of Physical Chemistry A, 2019, 123, 3142-3148.	2.5	6
58	Potassium iodide cluster based superhalogens and superalkalis: Theoretical calculations and experimental confirmation. Chemical Physics Letters, 2020, 741, 137094.	2.6	6
59	Structures of $Al+(C_2H_4)_n$ clusters: Mass-selected photodissociation and ab initio calculations. International Journal of Mass Spectrometry, 2012, 309, 49-55.	1.5	5
60	Examining the Amine Functionalization in Dicarboxylates: Photoelectron Spectroscopy and Theoretical Studies of Aspartate and Glutamate. Journal of Physical Chemistry A, 2014, 118, 5256-5262.	2.5	5
61	Experimental and Theoretical Studies of the $F^+ + H_2F$ Transition-State Region by Photodetachment of $[F_2]^+$. Journal of Physical Chemistry A, 2017, 121, 7895-7902.	2.5	5
62	Negative Ion Photoelectron Spectroscopy Confirms the Prediction of the Relative Energies of the Low-Lying Electronic States of 2,7-Naphthoquinone. Journal of Physical Chemistry A, 2018, 122, 4838-4844.	2.5	5
63	Distonic radical anion species in cysteine oxidation processes. Physical Chemistry Chemical Physics, 2020, 22, 17554-17558.	2.8	5
64	Stable Noble Gas Compounds Based on Superelectrophilic Anions $[B_{12}(BO)_{11}]^+$ and $[B_{12}(OBO)_{11}]^+$. ChemPhysChem, 2021, 22, 2240-2246.	2.1	5
65	Deviation from the <i>trans</i> -Effect in Ligand-Exchange Reactions of Zeise's Ions $PtCl_3^-(C_2H_4)_4^+$ with Heavier Halides (Br^+), <i>Tj</i> <i>EQ</i> 1 1 0.784314	1.0	1
66	Observation of the Reaction Intermediates of Methanol Dehydrogenation by Cationic Vanadium Clusters. Angewandte Chemie, 2021, 133, 4806-4813.	2.0	4
67	Enhanced Two-Photon Absorption in Two Triphenylamine-Based All-Organic Compounds. Journal of Physical Chemistry A, 2021, 125, 1870-1879.	2.5	4
68	Stabilizing the Exotic Carbonic Acid by Bisulfate Ion. Molecules, 2022, 27, 8.	3.8	4
69	Structures and Electronic Properties of $(Kl)_n/O^-$ ($n=4$) and $K(Kl)_n/O^-$ ($n=3$) Clusters: Photoelectron Spectroscopy, Isomer-Depletion, and ab Initio Calculations. Journal of Physical Chemistry A, 2015, 119, 11154-11161.	2.5	3
70	The size-dependent influence of palladium doping on the structures of cationic gold clusters. Nanoscale Advances, 2021, 3, 6197-6205.	4.6	3
71	Regioisomer-specific electron affinities and electronic structures of C_{70} para-adducts at polar and equatorial positions with (bromo)benzyl radicals: photoelectron spectroscopy and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 18683-18686.	2.8	1
72	Effect of One-Coordinated Atoms on the Electronic and Optical Properties of ZnSe Clusters. ACS Omega, 2021, 6, 18711-18718.	3.5	1

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73	Photoionization Spectroscopic and Theoretical Study on the Molecular Structures of <i>cis-</i> and <i>trans-</i> 3-Chlorothioanisole. ACS Omega, 2022, 7, 8456-8465.	3.5	1
74	Titelbild: A Combined Gas-Phase Photoelectron Spectroscopic and Theoretical Study of Zeise's Anion and Its Bromine and Iodine Analogues (Angew. Chem. 26/2012). Angewandte Chemie, 2012, 124, 6385-6385.	2.0	0
75	Frontispiece: Incremental Tuning Up of Fluorous Phenazine Acceptors. Chemistry - A European Journal, 2016, 22, .	3.3	0
76	Designing stable closo-B ₁₂ dianions in silico for Li- and Mg-ion battery applications. Inorganic Chemistry Frontiers, 2021, 8, 5201-5208.	6.0	0
77	Water Splitting by a C60 Supported Single Vanadium Atom. Angewandte Chemie, 0, , .	2.0	0
78	Substitution-induced Nonplanarity of 3-Fluorothioanisole in the First Electronically Excited State. Journal of Physical Chemistry A, 2022, 126, 2541-2550.	2.5	0