Gao-Lei Hou

List of Publications by Year
in descending order

78	1,131	471509 17	501196 28
papers	citations	h-index	g-index

80	80	80	1087
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoionization Spectroscopic and Theoretical Study on the Molecular Structures of cis- and trans-3-Chlorothioanisole. ACS Omega, 2022, 7, 8456-8465.	3.5	1
2	Stabilizing the Exotic Carbonic Acid by Bisulfate Ion. Molecules, 2022, 27, 8.	3.8	4
3	Substitution-induced Nonplanarity of 3-Fluorothioanisole in the First Electronically Excited State. Journal of Physical Chemistry A, 2022, 126, 2541-2550.	2.5	0
4	Unveiling the role of C60-supported vanadium single atoms for catalytic overall water splitting. Cell Reports Physical Science, 2022, 3, 100910.	5.6	7
5	Infrared spectra and structures of C60Rhn+ complexes. Carbon, 2022, 197, 535-543.	10.3	7
6	Observation of the Reaction Intermediates of Methanol Dehydrogenation by Cationic Vanadium Clusters. Angewandte Chemie, 2021, 133, 4806-4813.	2.0	4
7	Observation of the Reaction Intermediates of Methanol Dehydrogenation by Cationic Vanadium Clusters. Angewandte Chemie - International Edition, 2021, 60, 4756-4763.	13.8	15
8	The size-dependent influence of palladium doping on the structures of cationic gold clusters. Nanoscale Advances, 2021, 3, 6197-6205.	4.6	3
9	Enhanced Two-Photon Absorption in Two Triphenylamine-Based All-Organic Compounds. Journal of Physical Chemistry A, 2021, 125, 1870-1879.	2.5	4
10	Effect of One-Coordinated Atoms on the Electronic and Optical Properties of ZnSe Clusters. ACS Omega, 2021, 6, 18711-18718.	3.5	1
11	Artificial sodium-selective ionic device based on crown-ether crystals with subnanometer pores. Nature Communications, 2021, 12, 5231.	12.8	46
12	Stable Noble Gas Compounds Based on Superelectrophilic Anions [B₁₂(BO)₁₁]^{â”} and [B₁₂(OBO)₁₁]^{â”}. ChemPhysChem, 2021, 22, 2240-2246.	2.1	5
13	Designing stable closo-B₁₂ dianions in silico for Li- and Mg-ion battery applications. Inorganic Chemistry Frontiers, 2021, 8, 5201-5208.	6.0	0
14	Water Splitting by C₆₀â€Supported Vanadium Single Atoms. Angewandte Chemie - International Edition, 2021, 60, 27095-27101.	13.8	25
15	Distonic radical anion species in cysteine oxidation processes. Physical Chemistry Chemical Physics, 2020, 22, 17554-17558.	2.8	5
16	Molecular Specificity and Proton Transfer Mechanisms in Aerosol Prenucleation Clusters Relevant to New Particle Formation. Accounts of Chemical Research, 2020, 53, 2816-2827.	15.6	14
17	The structures of cationic gold clusters probed by far-infrared spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 11572-11577.	2.8	21
18	Potassium iodide cluster based superhalogens and superalkalis: Theoretical calculations and experimental confirmation. Chemical Physics Letters, 2020, 741, 137094.	2.6	6

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19	Spectroscopic Signature of Proton Location in Proton Bound HSO₄^{â€“}Â·H⁺Â·X^{â€“} (X = F, Cl, Br, and I) Clusters. Journal of Physical Chemistry Letters, 2019, 10, 6714-6719.	4.6	17
20	Properties of perhalogenated {closo-B₁₀} and {closo-B₁₁} multiply charged anions and a critical comparison with {closo-B₁₂} in the gas and the condensed phase. Physical Chemistry Chemical Physics, 2019, 21, 5903-5915.	2.8	24
21	Electrospray ionization photoelectron spectroscopy of cryogenic [EDTAÂ·M(ii)]2â^' complexes (M = Ca,) Tj ETQq1 1 0.784314 rgBT /Ov	3.2	11
22	Infrared Spectroscopy and Mass Spectrometry of CO₂ Clusters during Nucleation and Growth. Journal of Physical Chemistry A, 2019, 123, 2426-2437.	2.5	14
23	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
24	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
25	Sulfuric acid and aromatic carboxylate clusters H2SO4Â·ArCOOâ^': Structures, properties, and their relevance to the initial aerosol nucleation. International Journal of Mass Spectrometry, 2019, 439, 27-33.	1.5	8
26	Rotational characterization of Sâ‹¯F chalcogen bonds in the complex of 2,2,4,4-tetrafluoro-1,3-dithietane and difluoromethane. Physical Chemistry Chemical Physics, 2019, 21, 24659-24665.	2.8	7
27	Deviation from the trans-Effect in Ligand-Exchange Reactions of Zeiseâ€™s Ions PtCl₃(C₂H₄)^{â^'} with Heavier Halides (Br^{â€“},) Tj ETQq1 1 0.784314 rgB	2.3	7
28	Photoelectron spectroscopy of solvated dicarboxylate and alkali metal ion clusters, M+[O2C(CH2)2CO2]2â^' [H2O]n (M = Na, K; n = 1â€“6). Physical Chemistry Chemical Physics, 2018, 20, 29051-29060.	2.8	10
29	Direct Observation of Hierarchic Molecular Interactions Critical to Biogenic Aerosol Formation. Communications Chemistry, 2018, 1, .	4.5	15
30	Photoelectron spectroscopic and computational studies of [EDTAÂ·M(<scp>iii</scp>)]^{â^'} complexes (M = H₃, Al, Sc, Vâ€“Co). Physical Chemistry Chemical Physics, 2018, 20, 19458-19469.	2.8	9
31	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
32	Structures and energetics of hydrated deprotonated cis-pinonic acid anion clusters and their atmospheric relevance. Physical Chemistry Chemical Physics, 2017, 19, 10676-10684.	2.8	17
33	Spectroscopic Characterization, Computational Investigation, and Comparisons of ECX^{â€“} (E = As, P, and N; X = S and O) Anions. Journal of the American Chemical Society, 2017, 139, 8922-8930.	13.7	48
34	Initial hydration processes of magnesium chloride: size-selected anion photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2017, 19, 15562-15569.	2.8	12
35	Emergence of Solvent-Separated Na⁺â€“Cl^{â€“} Ion Pair in Salt Water: Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry Letters, 2017, 8, 13-20.	4.6	37
36	Experimental and Theoretical Studies of the F^{â€¢} + Hâ€“F Transition-State Region by Photodetachment of [Fâ€“Hâ€“F]^{â^'}. Journal of Physical Chemistry A, 2017, 121, 7895-7902.	2.5	5

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37	Electronic Structure and Stability of [B₁₂X₁₂]^{2â€“} (X = Fâ€“At): A Combined Photoelectron Spectroscopic and Theoretical Study. Journal of the American Chemical Society, 2017, 139, 14749-14756.	13.7	60
38	Formation of (HCOO^{â€“})(H₂SO₄) Anion Clusters: Violation of Gas-Phase Acidity Predictions. Journal of the American Chemical Society, 2017, 139, 11321-11324.	13.7	22
39	Incremental Tuning Up of Fluorous Phenazine Acceptors. Chemistry - A European Journal, 2016, 22, 3930-3936.	3.3	12
40	Copper Causes Regiospecific Formation of C₄F₈â€Containing Sixâ€Membered Rings and their Defluorination/Aromatization to C₄F₄â€Containing Rings in Triphenylene/1,4â€C₄F₈I₂ Reactions. Chemistry - A European Journal, 2016, 22, 874-877.	3.3	16
41	Regioisomer-specific electron affinities and electronic structures of C70para-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
42	Hydration of potassium iodide dimer studied by photoelectron spectroscopy and ab initio calculations. Journal of Chemical Physics, 2016, 145, 184307.	3.0	7
43	Structural Evolution and Electronic Properties of V_nC₂^{0/â€“} and V_nC₄^{0/â€“} (n = 1â€“6) Clusters: Insights from Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry A, 2016, 120, 1520-1528.	2.5	16
44	Deprotonated Dicarboxylic Acid Homodimers: Hydrogen Bonds and Atmospheric Implications. Journal of Physical Chemistry A, 2016, 120, 2342-2349.	2.5	14
45	Negative ion photoelectron spectroscopy of P₂N₃^{â^’}: electron affinity and electronic structures of P₂N₃Ë™. Chemical Science, 2016, 7, 4667-4675.	7.4	14
46	Negative Ion Photoelectron Spectroscopy Reveals Remarkable Noninnocence of Ligands in Nickel Bis(dithiolene) Complexes [Ni(dddt)2]â^’ and [Ni(edo)2]â^’. Journal of Physical Chemistry A, 2016, 120, 2854-2862.	2.5	7
47	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
48	A Joint Experimental and Computational Study of the Negative Ion Photoelectron Spectroscopy of the 1-Phospha-2,3,4-triazolate Anion, HCPN₃^{â€“}. Journal of Physical Chemistry A, 2016, 120, 6228-6235.	2.5	6
49	Negative ion photoelectron spectra of ISO3â€“, IS2O3â€“, and IS2O4â€“ intermediates formed in interfacial reactions of ozone and iodide/sulfite aqueous microdroplets. Journal of Chemical Physics, 2016, 145, 214310.	3.0	10
50	Examining the structural evolution of bicarbonateâ€“water clusters: insights from photoelectron spectroscopy, basin-hopping structural search, and comparison with available IR spectral studies. Physical Chemistry Chemical Physics, 2016, 18, 17470-17482.	2.8	13
51	Frontispiece: Incremental Tuning Up of Fluorous Phenazine Acceptors. Chemistry - A European Journal, 2016, 22, .	3.3	0
52	Negative ion photoelectron spectroscopy confirms the prediction that D_{3h} carbon trioxide (CO₃) has a singlet ground state. Chemical Science, 2016, 7, 1142-1150.	7.4	19
53	Probing the early stages of solvation of cis-pinate dianions by water, acetonitrile, and methanol: a photoelectron spectroscopy and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 3628-3637.	2.8	12
54	Initial hydration behavior of sodium iodide dimer: photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2016, 18, 557-565.	2.8	11

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55	Photoelectron spectroscopy of hexachloroplatinate-nucleobase complexes: Nucleobase excited state decay observed via delayed electron emission. Journal of Chemical Physics, 2015, 143, 184307.	3.0	8
56	Microsolvation of sodium acetate in water: Anion photoelectron spectroscopy and ab initio calculations. Journal of Chemical Physics, 2015, 143, 054302.	3.0	19
57	Electron Detachment as a Probe of Intrinsic Nucleobase Dynamics in Dianion-Nucleobase Clusters: Photoelectron Spectroscopy of the Platinum II Cyanide Dianion Bound to Uracil, Thymine, Cytosine, and Adenine. Journal of Physical Chemistry B, 2015, 119, 11626-11631.	2.6	9
58	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
59	Photoelectron Spectroscopy and ab initio Calculations of Li(H₂O)_n^{â€“} and Cs(H₂O)_n^{â€“} (n = 1â€“6) Clusters. Journal of Physical Chemistry A, 2015, 119, 2845-2856.	2.5	17
60	Negative Ion Photoelectron Spectroscopy Confirms the Prediction that 1,2,4,5-Tetraoxatetramethylenebenzene Has a Singlet Ground State. Journal of the American Chemical Society, 2015, 137, 9094-9099.	13.7	11
61	On the dissolution of lithium sulfate in water: anion photoelectron spectroscopy and density functional theory calculations. Physical Chemistry Chemical Physics, 2015, 17, 5624-5631.	2.8	13
62	Structures and Electronic Properties of (KI)_n^{â€“/0} (n = 1â€“4) and K(KI)_n^{â€“/0} (n = 1â€“3) Clusters: Photoelectron Spectroscopy, Isomer-Depletion, and ab Initio Calculations. Journal of Physical Chemistry A, 2015, 119, 11154-11161.	2.5	3
63	Microsolvation of LiBO2 in water: anion photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2015, 17, 9135-9147.	2.8	18
64	Photoelectron Spectroscopy of CoC₂H₂^{â€“} and Density Functional Study of Co_nC₂H₂ (n = 1â€“3) Anion and Neutral Clusters. Journal of Physical Chemistry A, 2014, 118, 6757-6762.	2.5	7
65	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
66	Adsorption of water molecules on sodium chloride trimer. Theoretical Chemistry Accounts, 2014, 133, 1.	1.4	13
67	Metal-Centered 17-Electron Radicals CpM(CO)₃^{â€¢} (M = Cr, Mo, W): A Combined Negative Ion Photoelectron Spectroscopic and Theoretical Study. Organometallics, 2013, 32, 2084-2091.	2.3	12
68	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
69	Communication: Solute anisotropy effects in hydrated anion and neutral clusters. Journal of Chemical Physics, 2013, 138, 031101.	3.0	22
70	Photoelectron spectroscopy and theoretical study of M(IO₃)₂^{â^’} (M = H, Li, Na, K): Structural evolution, optical isomers, and hyperhalogen behavior. Journal of Chemical Physics, 2013, 139, 044312.	3.0	19
71	Probing the Low-Lying Electronic States of Cyclobutanetetraone (C₄O₄) and Its Radical Anion: A Low-Temperature Anion Photoelectron Spectroscopic Approach. Journal of Physical Chemistry Letters, 2012, 3, 304-308.	4.6	35
72	Photoelectron spectroscopy and density functional calculations of CunBO2(OH)â^’ (n=1,2) clusters. Chemical Physics Letters, 2012, 545, 21-25.	2.6	16

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73	Titelbild: A Combined Gas-Phase Photoelectron Spectroscopic and Theoretical Study of Zeiseâ€™s Anion and Its Bromine and Iodine Analogues (Angew. Chem. 26/2012). Angewandte Chemie, 2012, 124, 6385-6385.	2.0	0
74	A Combined Gasâ€Phase Photoelectron Spectroscopic and Theoretical Study of Zeiseâ€™s Anion and Its Bromine and Iodine Analogues. Angewandte Chemie - International Edition, 2012, 51, 6356-6360.	13.8	11
75	Structures of Al+(C2H4)n clusters: Mass-selected photodissociation and ab initio calculations. International Journal of Mass Spectrometry, 2012, 309, 49-55.	1.5	5
76	Photoelectron spectroscopy of higher bromine and iodine oxide anions: Electron affinities and electronic structures of BrO2,3 and IO2â€“4 radicals. Journal of Chemical Physics, 2011, 135, 184309.	3.0	13
77	Photodissociation and DFT investigation of V+(C2H4)n (n=1â€“3) complexes. International Journal of Mass Spectrometry, 2010, 295, 36-42.	1.5	6
78	Water Splitting by a C60 Supported Single Vanadium Atom. Angewandte Chemie, 0, , .	2.0	0