

Hua Xie

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ternary ruthenium complex hydrides for ammonia synthesis via the associative mechanism. <i>Nature Catalysis</i> , 2021, 4, 959-967.	16.1	67
2	The Formation of Surface Lithium-Iron Ternary Hydride and its Function on Catalytic Ammonia Synthesis at Low Temperatures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8716-8720.	7.2	58
3	Infrared spectroscopy of neutral water clusters at finite temperature: Evidence for a noncyclic pentamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15423-15428.	3.3	55
4	Octacoordinate Metal Carbonyls of Lanthanum and Cerium: Experimental Observation and Theoretical Calculation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9380-9385.	1.1	32
5	Collinear Velocity-map Photoelectron Imaging Spectrometer for Cluster Anions. <i>Chinese Journal of Chemical Physics</i> , 2010, 23, 373-380.	0.6	27
6	Structural Evolution of Homoleptic Heterodinuclear Copper-Nickel Carbonyl Anions Revealed Using Photoelectron Velocity-Map Imaging. <i>Inorganic Chemistry</i> , 2014, 53, 10909-10916.	1.9	24
7	Reactions of Copper and Silver Cations with Carbon Dioxide: An Infrared Photodissociation Spectroscopic and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3220-3226.	1.1	24
8	Coordination-induced CO ₂ fixation into carbonate by metal oxides. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19314-19320.	1.3	22
9	Infrared-Vacuum Ultraviolet Spectroscopic and Theoretical Study of Neutral Methylamine Dimer. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7176-7182.	1.1	21
10	Infrared photodissociation spectroscopy of M(N ₂) _n ⁺ (M = Y, La). <i>Journal of Physical Chemistry A</i> , 2017, 121, 19314-19320.	1.3	19
11	The Formation of Surface Lithium-Iron Ternary Hydride and its Function on Catalytic Ammonia Synthesis at Low Temperatures. <i>Angewandte Chemie</i> , 2017, 129, 8842-8846.	1.6	16
12	Rapid transesterification of micro-amount of lipids from microalgae via a micro-mixer reactor. <i>Biotechnology for Biofuels</i> , 2015, 8, 229.	6.2	15
13	Photoelectron Velocity Map Imaging Spectroscopy of Lead Tetracarbonyl-Iron Anion PbFe(CO) ₄ ⁺ . <i>Journal of Physical Chemistry A</i> , 2016, 120, 3533-3538.	1.1	15
14	Electron Affinities of the Early Lanthanide Monoxide Molecules. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 604-610.	0.6	14
15	Probing the bonding of CO to heteronuclear group 4 metal-nickel clusters by photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9790-9797.	1.3	14
16	Ligand-Mediated Reactivity in CO Oxidation of Niobium-Nickel Monoxide Carbonyl Complexes: The Crucial Roles of the Multiple Adsorption of CO Molecules. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1566-1573.	2.1	14
17	Microfluidic device for integrated restriction digestion reaction and resulting DNA fragment analysis. <i>Electrophoresis</i> , 2008, 29, 4956-4963.	1.3	13
18	Infrared Spectroscopy of Hydrogen-Bonding Interactions in Neutral Dimethylamine-Methanol Complexes. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10109-10115.	1.1	13

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19	Development of micropump-actuated negative pressure pinched injection for parallel electrophoresis on array microfluidic chip. <i>Electrophoresis</i> , 2009, 30, 3053-3057.	1.3	12
20	Photoelectron Imaging and Theoretical Calculations of Bimetallic Clusters: AgCu_2^+ , AgCu_2^+ , and Ag_2Cu^+ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 10365-10370.	1.1	12
21	Vibrational Signature of Dynamic Coupling of a Strong Hydrogen Bond. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2259-2265.	2.1	12
22	Observation of Carbon-Carbon Coupling Reaction in Neutral Transition-Metal Carbonyls. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1012-1017.	2.1	12
23	Probing the structural and electronic properties of Ag_nH^+ ($n = 1-3$) using photoelectron imaging and theoretical calculations. <i>Journal of Chemical Physics</i> , 2012, 136, 184312.	1.2	11
24	<i>In situ</i> formed Co from a $\text{Co}^{\text{Mg}}\text{O}$ solid solution synergizing with LiH for efficient ammonia synthesis. <i>Chemical Communications</i> , 2021, 57, 8576-8579.	2.2	11
25	Structure of Au_{40}^{+1} in the gas phase: A joint geometry relaxed ab initio calculations and vibrationally resolved photoelectron imaging investigation. <i>Journal of Chemical Physics</i> , 2013, 139, 094306.	1.2	10
26	Observation of promoted C-O bond weakening on the heterometallic nickel-silver: Photoelectron velocity-map imaging spectroscopy of $\text{AgNi}(\text{CO})_n^+$. <i>Journal of Chemical Physics</i> , 2017, 146, 244316.	1.2	10
27	Structures and Infrared Spectra of $[\text{M}(\text{CO})_2]_{7+}$ ($\text{M} = \text{V}, \text{Cr}, \text{and} \text{Tj}$). <i>Journal of Chemical Physics</i> , 2010, 132, 104301.	1.1	10
28	Infrared + vacuum ultraviolet two-color ionization spectroscopy of neutral metal complexes based on a tunable vacuum ultraviolet free-electron laser. <i>Review of Scientific Instruments</i> , 2020, 91, 034103.	0.6	10
29	Photoelectron imaging and theoretical calculations of gold-silver hydrides: comparing the characteristics of Au, Ag and H in small clusters. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11666.	1.3	9
30	Infrared photodissociation spectroscopy of $\text{M}(\text{CO})_n^+$ ($\text{M} = \text{V}, \text{Cr}, \text{and} \text{Tj}$). <i>Journal of Chemical Physics</i> , 2010, 132, 104301.	1.2	9
31	Photoelectron Velocity Map Imaging Spectroscopic and Theoretical Study of Heteronuclear $\text{MNi}(\text{CO})_7^+$ ($\text{M} = \text{V}, \text{Nb}, \text{Ta}$). <i>Journal of Physical Chemistry A</i> , 2020, 124, 2264-2269.	1.1	9
32	Vibrationally Resolved Photoelectron Imaging of Cu_2H^+ and AgCuH^+ and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1706-1711.	1.1	8
33	Sequential bonding of CO molecules to a titanium dimer: A photoelectron velocity-map imaging spectroscopic and theoretical study of $\text{Ti}_2(\text{CO})_n^+$ ($n = 1-9$). <i>Journal of Chemical Physics</i> , 2016, 145, 184302.	1.2	8
34	Observing the Transition from Equatorial to Axial CO Chemisorption: Infrared Photodissociation Spectroscopy of Yttrium Oxide-Carbonyls. <i>Inorganic Chemistry</i> , 2016, 55, 5502-5506.	1.9	8
35	Probing Chemical Bonding and Electronic Structures in ThO^+ by Anion Photoelectron Imaging and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2108-2113.	1.1	8
36	CO oxidation on the heterodinuclear tantalum-nickel monoxide carbonyl complex anions. <i>Chinese Chemical Letters</i> , 2021, 32, 854-860.	4.8	8

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37	Spectroscopic Identification of Transition-Metal $M[\text{I}^{2+}(\text{O},\text{O})\text{C}]$ Species for Highly-Efficient CO_2 Activation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 472-477.	2.1	8
38	Photoelectron velocity map imaging spectroscopic and theoretical study of heteronuclear vanadium-nickel carbonyl anions $\text{VNi}(\text{CO})_n^-$ ($n = 2-6$). <i>Journal of Chemical Physics</i> , 2018, 149, 144305.	1.2	7
39	A splicing model-based DNA computing approach on microfluidic chip. <i>Electrophoresis</i> , 2009, 30, 3514-3518.	1.3	6
40	Ligand-Enhanced CO Activation by the Early Lanthanide-Nickel Heterodimers: Photoelectron Velocity-Map Imaging Spectroscopy of $\text{LnNi}(\text{CO})_n^-$ ($\text{Ln} = \text{La}, \text{Ce}$). <i>Journal of Physical Chemistry A</i> , 2018, 122, 3811-3818.	1.1	6
41	Photoelectron Velocity Map Imaging Spectroscopy of Heteronuclear Metal-Nickel Carbonyls $\text{MNi}(\text{CO})_n^-$ ($\text{M} = \text{Sc}, \text{Y}; n = 2-6$). <i>Topics in Catalysis</i> , 2018, 61, 71-80.	1.3	6
42	Anion photoelectron spectroscopy and chemical bonding of ThO_2^- and ThO_3^- . <i>Journal of Chemical Physics</i> , 2018, 148, 244304.	1.2	6
43	Preparation of Efficient Ultraviolet-Protective Transparent Coating by Using a Titanium-Containing Hybrid Oligomer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5592-5601.	4.0	6
44	Photoelectron velocity-map imaging signature of structural evolution of silver-doped lead Zintl anions. <i>Journal of Chemical Physics</i> , 2012, 137, 064318.	1.2	5
45	Photoelectron imaging and theoretical study on the structure and chemical binding of the mixed-ligand $\text{M}(\text{I})$ complexes, $[\text{HMSH}]_n^-$ ($\text{M} = \text{Cu}, \text{Ag}, \text{and Au}$). <i>Journal of Chemical Physics</i> , 2014, 140, 114307.	1.2	5
46	On the photoelectron velocity-map imaging of lutetium monoxide anion LuO^- . <i>Journal of Chemical Physics</i> , 2014, 140, 034312.	1.2	5
47	Photoelectron Velocity-Map Imaging and Theoretical Studies of Heterotrinary Metal Carbonyls $\text{V}_2\text{Ni}(\text{CO})_n^-$ ($n = 4-10$). <i>Journal of Physical Chemistry A</i> , 2018, 122, 53-59.	1.1	5
48	Multicenter electron-sharing δ -bonding in the $\text{AgFe}(\text{CO})_4^-$ complex. <i>Dalton Transactions</i> , 2020, 49, 15256-15266.	1.6	5
49	CO activation by the heterobinuclear transition metal-iron clusters: A photoelectron spectroscopic and theoretical study. <i>Journal of Energy Chemistry</i> , 2021, 63, 344-350.	7.1	5
50	Aerosol mass spectrometry of neutral species based on a tunable vacuum ultraviolet free electron laser. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16484-16492.	1.3	5
51	Low-energy photoelectron imaging of HS_2^- anion. <i>Journal of Chemical Physics</i> , 2014, 141, 204312.	1.2	4
52	Unsaturated binuclear homoleptic nickel carbonyl anions $\text{Ni}_2(\text{CO})_n^-$ ($n = 4-6$) featuring double three-center two-electron $\text{Ni}-\text{C}-\text{Ni}$ bonds. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23773-23784.	1.3	4
53	Thermodynamics and Kinetics of Gas-Phase CO Oxidation on the Scandium Monoxide Carbonyl Complexes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 924-931.	1.1	4
54	An investigation into low-lying electronic states of HCS_2 via threshold photoelectron imaging. <i>Journal of Chemical Physics</i> , 2014, 140, 214318.	1.2	3

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55	A comparative study on the bond features in CO, CS, and PbS. <i>Journal of Chemical Physics</i> , 2018, 149, 224302.	1.2	3
56	Doping Graphene into Monodispersed Fe ₃ O ₄ Microspheres with Droplet Microfluidics for Enhanced Electrochemical Performance in Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2018, 2, 49.	2.4	3
57	Structures, energetics, and infrared spectra of the cationic monomethylamine-water clusters. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 31-36.	0.6	3
58	Infrared spectroscopy of CO ₂ transformation by group III metal monoxide cations. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 160-166.	0.6	3
59	Facile precipitation microfluidic synthesis of Monodisperse and inorganic hollow microspheres for Photocatalysis. <i>Journal of Chemical Technology and Biotechnology</i> , 0, , .	1.6	3
60	Isoelectronic IrC ₃ ⁺ , PtC ₃ , and AuC ₃ ⁺ Clusters Featuring the Structural and Bonding Resemblance to OC ₃ . <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 12-17.	2.1	3
61	Photoelectron Imaging of AgOCH ₃ ⁺ and Ag ⁺ (CH ₃ OH) (n = 1, 2). <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 557-562.	0.6	2
62	Infrared-Vacuum Ultraviolet Spectroscopic and Theoretical Study of Neutral Trimethylamine Dimer. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 691-695.	0.6	2
63	Ligand-Induced Tuning of the Electronic Structure of Rhombus Tetraboron Cluster. <i>ChemPhysChem</i> , 2022, 23, e202200060.	1.0	2
64	Observation of unsaturated platinum carbenes Pt ₂ C _{2n} ⁺ (n = 1-3) clusters: A photoelectron imaging spectroscopic and theoretical study. <i>Journal of Chemical Physics</i> , 2022, 156, 164302.	1.2	2
65	Spectroscopic Characterization of the Synergistic Mechanism of Ruthenium-Lithium Hydrides for Dinitrogen Cleavage. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3937-3941.	2.1	2
66	Photoelectron velocity-map imaging spectroscopy of nickel carbide: Examination of the low-lying electronic states. <i>New Journal of Chemistry</i> , 0, , .	1.4	1
67	A Reflectron Time-of-Flight Mass Spectrometer with a Nano-Electrospray Ionization Source for Study of Metal Cluster Compounds. <i>Chinese Journal of Chemical Physics</i> , 2016, 29, 401-406.	0.6	0
68	Iridium Dimer Anion-Mediated C≡C Triple Bond Cleavage and Successive Dehydrogenation of Acetylene in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1711-1717.	1.1	0