Lai-Sheng Wang

List of Publications by Year
in descending order

480	39,125	1530 106	4535 171
papers	citations	h-index	g-index

489	489	489	11990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Au20: A Tetrahedral Cluster. Science, 2003, 299, 864-867.	6.0	1,091
2	Observation of an all-boron fullerene. Nature Chemistry, 2014, 6, 727-731.	6.6	724
3	Hydrocarbon analogues of boron clusters â€" planarity, aromaticity and antiaromaticity. Nature Materials, 2003, 2, 827-833.	13.3	650
4	Planar hexagonal B36 as a potential basis for extended single-atom layer boron sheets. Nature Communications, 2014, 5, 3113.	5.8	645
5	On the Electronic and Atomic Structures of Small AuN- (N = 4â^'14) Clusters:â€‰ A Photoelectron Spectroscopy and Density-Functional Study. Journal of Physical Chemistry A, 2003, 107, 6168-6175.	1.1	598
6	Observation of All-Metal Aromatic Molecules. Science, 2001, 291, 859-861.	6.0	597
7	All-boron aromatic clusters as potential new inorganic ligands and building blocks in chemistry. Coordination Chemistry Reviews, 2006, 250, 2811-2866.	9.5	588
8	All-Metal Aromaticity and Antiaromaticity. Chemical Reviews, 2005, 105, 3716-3757.	23.0	529
9	Synthesis of the H-cluster framework of iron-only hydrogenase. Nature, 2005, 433, 610-613.	13.7	498
10	Planar-to-tubular structural transition in boron clusters: B20 as the embryo of single-walled boron nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 961-964.	3.3	490
11	A concentric planar doubly Ï€-aromatic B19â^' cluster. Nature Chemistry, 2010, 2, 202-206.	6.6	481
12	Hepta- and Octacoordinate Boron in Molecular Wheels of Eight- and Nine-Atom Boron Clusters: Observation and Confirmation. Angewandte Chemie - International Edition, 2003, 42, 6004-6008.	7.2	477
13	Understanding Boron through Size-Selected Clusters: Structure, Chemical Bonding, and Fluxionality. Accounts of Chemical Research, 2014, 47, 1349-1358.	7.6	474
14	Evidence of hollow golden cages. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8326-8330.	3.3	361
15	s-pHybridization and Electron Shell Structures in Aluminum Clusters: A Photoelectron Spectroscopy Study. Physical Review Letters, 1998, 81, 1909-1912.	2.9	325
16	Experimental Observation and Confirmation of Icosahedral W@Au12 and Mo@Au12 Molecules. Angewandte Chemie - International Edition, 2002, 41, 4786-4789.	7.2	325
17	Threshold photodetachment of cold Câ^'60. Chemical Physics Letters, 1991, 182, 5-11.	1.2	314
18	The B₃₅ Cluster with a Double-Hexagonal Vacancy: A New and More Flexible Structural Motif for Borophene. Journal of the American Chemical Society, 2014, 136, 12257-12260.	6.6	298

#	Article	IF	Citations
19	Tetracoordinated Planar Carbon in the Al4C-Anion. A Combined Photoelectron Spectroscopy and ab Initio Study. Journal of the American Chemical Society, 1999, 121, 6033-6038.	6.6	297
20	Photoelectron spectra of aluminum cluster anions: Temperature effects andab initiosimulations. Physical Review B, 1999, 60, R11297-R11300.	1.1	289
21	All-boron analogues of aromatic hydrocarbons: B17â‾ and B18â‾. Journal of Chemical Physics, 2011, 134, 224304.	1.2	283
22	First experimental photoelectron spectra of superhalogens and their theoretical interpretations. Journal of Chemical Physics, 1999, 110, 4763-4771.	1.2	269
23	A Photoelectron Spectroscopic and Theoretical Study of B₁₆^{â‾} and B₁₆^{2â‾}: An All-Boron Naphthalene. Journal of the American Chemical Society, 2008, 130, 7244-7246.	6.6	264
24	Structure of the NaxClx+1â‾â€Š(x=1â€“4) clusters viaab initiogenetic algorithm and photoelectron spectroscopy. Journal of Chemical Physics, 2004, 121, 5709-5719.	1.2	261
25	Development of a low-temperature photoelectron spectroscopy instrument using an electrospray ion source and a cryogenically controlled ion trap. Review of Scientific Instruments, 2008, 79, 073108.	0.6	260
26	Photoelectron spectroscopy of size-selected boron clusters: from planar structures to borophenes and borospherenes. International Reviews in Physical Chemistry, 2016, 35, 69-142.	0.9	253
27	Helical Crystalline SiC/SiO2Coreâ‾Shell Nanowires. Nano Letters, 2002, 2, 941-944.	4.5	252
28	Experimental Observation of Pentaatomic Tetracoordinate Planar Carbon-Containing Molecules. Journal of the American Chemical Society, 2000, 122, 7681-7687.	6.6	230
29	Transition-Metal-Centered Monocyclic Boron Wheel Clusters (MÂ©B_n): A New Class of Aromatic Borometallic Compounds. Accounts of Chemical Research, 2013, 46, 350-358.	7.6	229
30	Experimental and Theoretical Evidence of an Axially Chiral Borospherene. ACS Nano, 2015, 9, 754-760.	7.3	228
31	Electronic structure and chemical bonding of B5â‾ and B5 by photoelectron spectroscopy andab initiocalculations. Journal of Chemical Physics, 2002, 117, 7917-7924.	1.2	222
32	All-Metal Antiaromatic Molecule: Rectangular Al44- in the Li3Al4- Anion. Science, 2003, 300, 622-625.	6.0	219
33	Controlling Gold Nanoclusters by Diphospine Ligands. Journal of the American Chemical Society, 2014, 136, 92-95.	6.6	219
34	On the Aromaticity of Square Planar Ga42- and In42- in Gaseous NaGa4- and NaIn4- Clusters. Journal of the American Chemical Society, 2001, 123, 8825-8831.	6.6	217
35	Photodetachment photoelectron spectroscopy of multiply charged anions using electrospray ionization. Review of Scientific Instruments, 1999, 70, 1957-1966.	0.6	210
36	Observation of negative electron-binding energy in a molecule. Nature, 1999, 400, 245-248.	13.7	206

#	Article	IF	Citations
37	High resolution photoelectron spectroscopy of C60â¯. Journal of Chemical Physics, 1999, 110, 8217-8220.	1.2	203
38	Electronic Structure, Isomerism, and Chemical Bonding in B7-and B7. Journal of Physical Chemistry A, 2004, 108, 3509-3517.	1.1	201
39	Synthesis, Characterization, and Manipulation of Helical SiO2 Nanosprings. Nano Letters, 2003, 3, 577-580.	4.5	198
40	B₂₂^{â€“} and B₂₃^{â€“}: All-Boron Analogues of Anthracene and Phenanthrene. Journal of the American Chemical Society, 2012, 134, 18065-18073.	6.6	198
41	Observation of the Highest Coordination Number in Planar Species: Decacoordinated TaÂ©B₁₀^{â¯} and NbÂ©B₁₀^{â¯} Anions. Angewandte Chemie - International Edition, 2012, 51, 2101-2105.	7.2	198
42	Fullerene triplet state production and decay: R2PI probes of C60 and C70 in a supersonic beam. Chemical Physics Letters, 1991, 179, 449-454.	1.2	197
43	Structure and Bonding in B6-and B6:Â Planarity and Antiaromaticity. Journal of Physical Chemistry A, 2003, 107, 1359-1369.	1.1	193
44	Cobalt-centred boron molecular drums with the highest coordination number in the CoB16â¯ cluster. Nature Communications, 2015, 6, 8654.	5.8	192
45	Probing Free Multiply Charged Anions Using Photodetachment Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2000, 104, 1978-1990.	1.1	189
46	Photoelectron Spectroscopy and ab Initio Study of B3-and B4-Anions and Their Neutrals. Journal of Physical Chemistry A, 2003, 107, 9319-9328.	1.1	183
47	Aromaticity and antiaromaticity in transition-metal systems. Physical Chemistry Chemical Physics, 2008, 10, 257-267.	1.3	183
48	Bulk-Like Features in the Photoemission Spectra of Hydrated Doubly Charged Anion Clusters. Science, 2001, 294, 1322-1325.	6.0	181
49	Aromatic Metalâ€Centered Monocyclic Boron Rings: CoÂ©B₈^{â¯} and RuÂ©B₉^{â¯}. Angewandte Chemie - International Edition, 2011, 50, 9334-9337.	7.2	181
50	Probing the Potential Barriers and Intramolecular Electrostatic Interactions in Free Doubly Charged Anions. Physical Review Letters, 1998, 81, 2667-2670.	2.9	180
51	Probing the Electronic Structure and Band Gap Evolution of Titanium Oxide Clusters (TiO2)n- (n =) Tj ETQq1 1 0.784314 rgBT /Overlo 3022-3026.	6.6	178
52	From planar boron clusters to borophenes and metalloborophenes. Nature Reviews Chemistry, 2017, 1, .	13.8	169
53	Probing the structures and bonding of size-selected boron and doped-boron clusters. Chemical Society Reviews, 2019, 48, 3550-3591.	18.7	169
54	Magnetic Properties in Transition-Metal-Doped Gold Clusters:M@Au6(M=Ti,V,Cr). Physical Review Letters, 2005, 95, 253401.	2.9	164

#	Article	IF	Citations
55	B₂(BO)₂²⁻ Diboronyl Diborene:â€‰ A Linear Molecule with a Triple Boronâ"Boron Bond. Journal of the American Chemical Society, 2008, 130, 2573-2579.	6.6	163
56	Carbon Avoids Hypercoordination in CB₆^{â"}, CB₆^{2â"}, and C₂B₅^{â"}Planar Carbonâ"Boron Clusters. Journal of the American Chemical Society, 2008, 130, 9248-9250.	6.6	162
57	Evidence of Significant Covalent Bonding in Au(CN)₂^{â"}. Journal of the American Chemical Society, 2009, 131, 16368-16370.	6.6	161
58	Vibrationally Resolved Photoelectron Spectroscopy of BO-and BO2-:Â A Joint Experimental and Theoretical Study. Journal of Physical Chemistry A, 2007, 111, 1030-1035.	1.1	160
59	Sn122-:Â Stannaspherene. Journal of the American Chemical Society, 2006, 128, 8390-8391.	6.6	157
60	Transition-Metal-Centered Nine-Membered Boron Rings: Mâ"'B₉ and Mâ"'B₉^{â€"} (M = Rh, Ir). Journal of the American Chemical Society, 2012, 134, 165-168.	6.6	157
61	Molecular Wheel B82- as a New Inorganic Ligand. Photoelectron Spectroscopy and ab Initio Characterization of LiB8-. Inorganic Chemistry, 2004, 43, 3552-3554.	1.9	150
62	MX3-Superhalogens (M = Be, Mg, Ca; X = Cl, Br):Â A Photoelectron Spectroscopic and ab Initio Theoretical Studyâ€. Journal of Physical Chemistry A, 2005, 109, 11560-11567.	1.1	150
63	A study of the structure and bonding of small aluminum oxide clusters by photoelectron spectroscopy: AlxOyâ" (x=1â€"2, y=1â€"5). Journal of Chemical Physics, 1997, 106, 1309-1317.	1.2	149
64	Probing the 2D to 3D Structural Transition in Gold Cluster Anions Using Argon Tagging. Physical Review Letters, 2009, 102, 153401.	2.9	149
65	Unraveling the Mechanisms of O₂ Activation by Size-Selected Gold Clusters: Transition from Superoxo to Peroxo Chemisorption. Journal of the American Chemical Society, 2012, 134, 9438-9445.	6.6	149
66	High resolution UV photoelectron spectroscopy of CO+2, COS+ and CS+2 using supersonic molecular beams. Journal of Electron Spectroscopy and Related Phenomena, 1988, 47, 167-186.	0.8	145
67	[B₃₀]^{â"}: A Quasiplanar Chiral Boron Cluster. Angewandte Chemie - International Edition, 2014, 53, 5540-5545.	7.2	144
68	Complexes between Planar Boron Clusters and Transition Metals: A Photoelectron Spectroscopy and Ab Initio Study of CoB₁₂^{â€"} and RhB₁₂^{â€"}. Journal of Physical Chemistry A, 2014, 118, 8098-8105.	1.1	143
69	Observation and characterization of the smallest borospherene, B28â" and B28. Journal of Chemical Physics, 2016, 144, 064307.	1.2	141
70	Aromatic Mercury Clusters in Ancient Amalgams. Angewandte Chemie - International Edition, 2001, 40, 3369-3372.	7.2	140
71	Icosahedral gold cage clusters: M@Au[sub 12][sup â"] (M=V, Nb, and Ta). Journal of Chemical Physics, 2004, 121, 8369.	1.2	137
72	Photodetachment Spectroscopy of a Doubly Charged Anion: Direct Observation of the Repulsive Coulomb Barrier. Physical Review Letters, 1998, 81, 3351-3354.	2.9	135

#	Article	IF	Citations
73	Direct experimental observation of the low ionization potentials of guanine in free oligonucleotides by using photoelectron spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17588-17592.	3.3	134
74	Origin of the unusual stability of MnO4â˜. Chemical Physics Letters, 1999, 312, 598-605.	1.2	132
75	The design and construction of a high-resolution velocity-map imaging apparatus for photoelectron spectroscopy studies of size-selected clusters. Review of Scientific Instruments, 2014, 85, 083106.	0.6	131
76	[SiAu4]: Aurosilane. Angewandte Chemie - International Edition, 2004, 43, 2125-2129.	7.2	130
77	Facile Syntheses of Monodisperse Ultrasmall Au Clusters. Journal of Physical Chemistry B, 2006, 110, 21416-21418.	1.2	130
78	A study of nickel monoxide (NiO), nickel dioxide (ONiO), and Ni(O2) complex by anion photoelectron spectroscopy. Journal of Chemical Physics, 1997, 107, 16-21.	1.2	129
79	Experimental and Theoretical Investigation of the Electronic and Geometrical Structures of the Au32 Cluster. Angewandte Chemie - International Edition, 2005, 44, 7119-7123.	7.2	129
80	Relativistic Effects and the Unique Low-Symmetry Structures of Gold Nanoclusters. ACS Nano, 2008, 2, 897-904.	7.3	128
81	A combined photoelectron spectroscopy and ab initio study of the quasi-planar B24â˜ cluster. Journal of Chemical Physics, 2013, 139, 144307.	1.2	128
82	A photoelectron spectroscopy and ab initio study of B21â˜: Negatively charged boron clusters continue to be planar at 21. Journal of Chemical Physics, 2012, 136, 104310.	1.2	127
83	Sequential Oxygen Atom Chemisorption on Surfaces of Small Iron Clusters. Physical Review Letters, 1996, 76, 4853-4856.	2.9	124
84	Chemical Bonding between Cu and OxygenCopper Oxides vs O2Complexes:Â A Study of CuOx(x= 0â˜6) Species by Anion Photoelectron Spectroscopy. Journal of Physical Chemistry A, 1997, 101, 2103-2111.	1.1	124
85	Al62- â˜ Fusion of Two Aromatic Al3- Units. A Combined Photoelectron Spectroscopy and ab Initio Study of M+[Al62-] (M = Li, Na, K, Cu, and Au). Journal of the American Chemical Society, 2002, 124, 11791-11801.	6.6	124
86	Probing the Interactions of O₂ with Small Gold Cluster Anions (Au_n^{â˜}, n = 1â˜7): Chemisorption vs Physisorption. Journal of the American Chemical Society, 2010, 132, 4344-4351.	6.6	124
87	Pb122-:Â Plumbaspherene. Journal of Physical Chemistry A, 2006, 110, 10169-10172.	1.1	122
88	Dimer Growth, Structural Transition, and Antiferromagnetic Ordering of Small Chromium Clusters. Physical Review Letters, 1996, 77, 51-54.	2.9	121
89	Electronic instability of isolated SO42â˜ and its solvation stabilization. Journal of Chemical Physics, 2000, 113, 10837-10840.	1.2	121
90	Gold Apes Hydrogen. The Structure and Bonding in the Planar B7Au2- and B7Au2 Clusters. Journal of Physical Chemistry A, 2006, 110, 1689-1693.	1.1	120

#	Article	IF	Citations
91	Photoelectron Spectroscopy of Multiply Charged Anions. Annual Review of Physical Chemistry, 2009, 60, 105-126.	4.8	120
92	Observation and Photoelectron Spectroscopic Study of Novel Mono- and Diiron Oxide Molecules:Â FeOy-(y= 1â^'4) and Fe2Oy-(y= 1â^'5). Journal of the American Chemical Society, 1996, 118, 5296-5301.	6.6	119
93	Beyond Classical Stoichiometry:â€‰ Experiment and Theory. Journal of Physical Chemistry A, 2001, 105, 10759-10775.	1.1	119
94	CB7â^': Experimental and Theoretical Evidence against Hypercoordinate Planar Carbon. Angewandte Chemie - International Edition, 2007, 46, 4550-4553.	7.2	119
95	Probing the Structural Evolution of Medium-Sized Gold Clusters: Aunâ^' (n = 27â^'35). Journal of the American Chemical Society, 2010, 132, 6596-6605.	6.6	118
96	Pd₂@Sn₁₈⁴⁻:â€‰ Fusion of Two Endohedral Stannaspherenes. Journal of the American Chemical Society, 2007, 129, 9560-9561.	6.6	116
97	Electronic structure of chromium oxides, CrOnâ^' and CrOn (n=1â€“5) from photoelectron spectroscopy and density functional theory calculations. Journal of Chemical Physics, 2001, 115, 7935-7944.	1.2	115
98	Observation of a metal-centered B₂-Ta@B₁₈^{â^'}tubular molecular rotor and a perfect Ta@B₂₀^{â^'}boron drum with the record coordination number of twenty. Chemical Communications, 2017, 53, 1587-1590.	2.2	114
99	Si3Oy(y=1â€“6) Clusters: Models for Oxidation of Silicon Surfaces and Defect Sites in Bulk Oxide Materials. Physical Review Letters, 1997, 78, 4450-4453.	2.9	111
100	Aluminum cluster anions: Photoelectron spectroscopy andab initiosimulations. Physical Review B, 2000, 62, 13216-13228.	1.1	111
101	Beyond organic chemistry: aromaticity in atomic clusters. Physical Chemistry Chemical Physics, 2016, 18, 11589-11605.	1.3	111
102	Electronic structure of small copper oxide clusters: FromCu2O toCu2O4. Physical Review B, 1996, 53, 8028-8031.	1.1	110
103	Electronic Structure and Chemical Bonding in MOn-and MOnClusters (M = Mo, W;n= 3â^'5):Â A Photoelectron Spectroscopy and ab Initio Study. Journal of the American Chemical Society, 2004, 126, 16134-16141.	6.6	110
104	Doping Golden Buckyballs: Cu@Au16â^' and Cu@Au17â^' Cluster Anions. Angewandte Chemie - International Edition, 2007, 46, 2915-2918.	7.2	110
105	Probing the Electronic Structure of Early Transition-Metal Oxide Clusters:â€‰ Polyhedral Cages of (V₂O₅)_n⁻ (n = 2â^'4) and (M₂O₅)₂⁻ (M = Nb, Ta). Journal of the American Chemical Society, 2007, 129, 13270-13276.	6.6	109
106	Experimental Search for the Smallest Stable Multiply Charged Anions in the Gas Phase. Physical Review Letters, 1999, 83, 3402-3405.	2.9	107
107	Electronic structure and chemical bonding between the first row transition metals and C2: A photoelectron spectroscopy study of MC2â^' (M=Sc, V, Cr, Mn, Fe, and Co). Journal of Chemical Physics, 1999, 111, 8389-8395.	1.2	107
108	Manganese-centered tubular boron cluster â€“ MnB16â^': A new class of transition-metal molecules. Journal of Chemical Physics, 2016, 144, 154310.	1.2	107

#	Article	IF	Citations
109	A photoelectron spectroscopic study of monovanadium oxide anions (VOxâ^', x=1â€“4). Journal of Chemical Physics, 1998, 108, 5310-5318.	1.2	106
110	Toward the Solution Synthesis of the Tetrahedral Au20Cluster. Journal of Physical Chemistry B, 2004, 108, 12259-12263.	1.2	106
111	Probing the structures of neutral boron clusters using infrared/vacuum ultraviolet two color ionization: B11, B16, and B17. Journal of Chemical Physics, 2012, 137, 014317.	1.2	105
112	Gold as Hydrogen. An Experimental and Theoretical Study of the Structures and Bonding in Disilicon Gold Clusters Si2Aun-and Si2Aun(n= 2 and 4) and Comparisons to Si2H2and Si2H4. Journal of Physical Chemistry A, 2005, 109, 4366-4374.	1.1	104
113	Photoelectron spectroscopy andab initiostudy of the doubly antiaromatic B62â^' dianion in the LiB6â^' cluster. Journal of Chemical Physics, 2005, 122, 054313.	1.2	103
114	Au34-:â€‰ A Fluxional Coreâ^'Shell Cluster. Journal of Physical Chemistry C, 2007, 111, 8228-8232.	1.5	103
115	Structural Transition of Gold Nanoclusters: From the Golden Cage to the Golden Pyramid. ACS Nano, 2009, 3, 1225-1230.	7.3	103
116	Unique CO Chemisorption Properties of Gold Hexamer:â€‰ Au6(CO)n- (n = 0â^'3). Journal of the American Chemical Society, 2005, 127, 12098-12106.	6.6	102
117	Covalent gold. Physical Chemistry Chemical Physics, 2010, 12, 8694.	1.3	101
118	Probing the Electronic and Structural Properties of Chromium Oxide Clusters (CrO₃)_n^{â^'} and (CrO₃)_n (n = 1â€“5): Photoelectron Spectroscopy and Density Functional Calculations. Journal of the American Chemical Society, 2008, 130, 5167-5177.	6.6	99
119	Boronyls as Key Structural Units in Boron Oxide Clusters:â€‰ B(BO)₂⁻ and B(BO)₃⁻. Journal of the American Chemical Society, 2007, 129, 9254-9255.	6.6	98
120	Probing the electronic structure of early transition metal oxide clusters: Molecular models towards mechanistic insights into oxide surfaces and catalysis. Chemical Physics Letters, 2010, 500, 185-195.	1.2	98
121	Probing the electronic properties and structural evolution of anionic gold clusters in the gas phase. Nanoscale, 2012, 4, 4038.	2.8	98
122	Observation of Modeâ€Specific Vibrational Autodetachment from Dipoleâ€Bound States of Cold Anions. Angewandte Chemie - International Edition, 2013, 52, 8976-8979.	7.2	98
123	Competition between drum and quasi-planar structures in RhB₁₈^{â^'}: motifs for metallo-boronanotubes and metallo-borophenes. Chemical Science, 2016, 7, 7020-7027.	3.7	97
124	Photodetachment of free hexahalogenometallate doubly charged anions in the gas phase: [ML6]2â^', (M=Re, Os, Ir, Pt; L=Cl and Br). Journal of Chemical Physics, 1999, 111, 4497-4509.	1.2	96
125	Probing the Electronic Structure and Aromaticity of Pentapnictogen Cluster Anions Pn5-(Pn = P, As,) Tj ETQq1 1 0.784314 rgBT /Over Chemistry A, 2002, 106, 5600-5606.	1.1	94
126	Formation of Monodisperse (WO3)3 Clusters on TiO2(110). Angewandte Chemie - International Edition, 2006, 45, 4786-4789.	7.2	92

#	Article	IF	Citations
127	Al3Oy (y=0â€“5) clusters: Sequential oxidation, metal-to-oxide transformation, and photoisomerization. Journal of Chemical Physics, 1998, 109, 449-458.	1.2	91
128	Photoelectron Spectroscopy and Electronic Structure of ScOn-(n= 1â^'4) and YOn-(n= 1â^'5):Â Strong Electron Correlation Effects in ScO-and YO-. Journal of Physical Chemistry A, 1998, 102, 9129-9135.	1.1	91
129	Doping the Golden Cage Au16- with Si, Ge, and Sn. Journal of the American Chemical Society, 2007, 129, 15136-15137.	6.6	90
130	High-resolution photoelectron imaging of cold ${m C}_{60}^ -$C60â^' anions and accurate determination of the electron affinity of C60. Journal of Chemical Physics, 2014, 140, 224315.	1.2	90
131	The Planar CoB₁₈^{â^'} Cluster as a Motif for Metalloâ€Borophenes. Angewandte Chemie - International Edition, 2016, 55, 7358-7363.	7.2	90
132	Probing the electronic structure of iron clusters using photoelectron spectroscopy. Chemical Physics, 2000, 262, 53-63.	0.9	89
133	Chemisorption sites of CO on small gold clusters and transitions from chemisorption to physisorption. Journal of Chemical Physics, 2005, 122, 051101.	1.2	89
134	Structural Evolution of Doped Gold Clusters: MAuxâ^' (M = Si, Ge, Sn; x = 5â^'8). Journal of the American Chemical Society, 2009, 131, 3396-3404.	6.6	89
135	Experimental and theoretical investigations of CB8â^': towards rational design of hypercoordinated planar chemical species. Physical Chemistry Chemical Physics, 2009, 11, 9840.	1.3	88
136	Diphosphine-Protected Au₂₂ Nanoclusters on Oxide Supports Are Active for Gas-Phase Catalysis without Ligand Removal. Nano Letters, 2016, 16, 6560-6567.	4.5	88
137	A Heteroleptic Gold Hydride Nanocluster for Efficient and Selective Electrocatalytic Reduction of CO₂ to CO. Journal of the American Chemical Society, 2022, 144, 5258-5262.	6.6	87
138	Isomer identification and resolution in small gold clusters. Journal of Chemical Physics, 2010, 132, 054305.	1.2	86
139	Electronic Structure of Small Titanium Clusters: Emergence and Evolution of the3dBand. Physical Review Letters, 1996, 76, 212-215.	2.9	85
140	Structural Transitions from Pyramidal to Fused Planar to Tubular to Core/Shell Compact in Gold Clusters:â€‰ Aun- (n = 21â^'25). Journal of Physical Chemistry C, 2007, 111, 4190-4198.	1.5	85
141	Magnetic doping of the golden cage cluster<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>M</mml:mi><mml:mo>@</mml:mo><mml:msubsup><mml:mrow><mml:mtext>Au</mml:mtext></mml:mrow>	1.1	85
142	Physical Review B, 2009, 79, . Experimental and computational evidence of octa- and nona-coordinated planar iron-doped boron clusters: FeÂ©B8â^' and FeÂ©B9â^'. Journal of Organometallic Chemistry, 2012, 721-722, 148-154.	0.8	85
143	Competition between quasi-planar and cage-like structures in the B₂₉^{â^'}cluster: photoelectron spectroscopy and ab initio calculations. Physical Chemistry Chemical Physics, 2016, 18, 29147-29155.	1.3	85
144	On the Structure and Chemical Bonding of Tri-Tungsten Oxide Clusters W3On- and W3On (n = 7â^'10):â€‰ W3O8 As A Potential Molecular Model for O-Deficient Defect Sites in Tungsten Oxides. Journal of Physical Chemistry A, 2006, 110, 85-92.	1.1	83

#	Article	IF	Citations
145	Low-lying isomers of the B9â¯ boron cluster: The planar molecular wheel versus three-dimensional structures. Journal of Chemical Physics, 2008, 129, 024302.	1.2	82
146	Electron tunneling through the repulsive Coulomb barrier in photodetachment of multiply charged anions. Chemical Physics Letters, 1999, 307, 391-396.	1.2	81
147	Experimental Observation of Pentaatomic Tetracoordinate Planar Si- and Ge-Containing Molecules: MAl4â¯ and MAl4. Angewandte Chemie - International Edition, 2000, 39, 3307-3310.	7.2	81
148	Electronic structure and chemical bonding of divanadium-oxide clusters (V2Ox, x=3â€“7) from anion photoelectron spectroscopy. Journal of Chemical Physics, 2002, 117, 7882-7888.	1.2	80
149	Recent progresses of global minimum searches of nanoclusters with a constrained Basin-Hopping algorithm in the TGMin program. Computational and Theoretical Chemistry, 2017, 1107, 57-65.	1.1	80
150	Structural and electronic properties of small titanium clusters: A density functional theory and anion photoelectron spectroscopy study. Journal of Chemical Physics, 2003, 118, 2116-2123.	1.2	79
151	Synthesis and Structure Determination of a New Au₂₀ Nanocluster Protected by Tripodal Tetraphosphine Ligands. Inorganic Chemistry, 2014, 53, 3932-3934.	1.9	78
152	Evolution of the Electronic Structure of Small Vanadium Clusters from Molecular to Bulklike. Physical Review Letters, 1996, 77, 2436-2439.	2.9	76
153	Small silicon oxide clusters: chains and rings. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1997, 40, 36-39.	1.0	76
154	On the Analogy of Bâ¯BO and Bâ¯Au Chemical Bonding in B₁₁O^{â¯} and B₁₀Au^{â¯} Clusters. Journal of Physical Chemistry A, 2010, 114, 12155-12161.	1.1	76
155	Planar B₃₈^{â¯}and B₃₇^{â¯}clusters with a double-hexagonal vacancy: molecular motifs for borophenes. Nanoscale, 2017, 9, 4550-4557.	2.8	76
156	Photoelectron Spectroscopy of Doubly Charged Anions:Â Intramolecular Coulomb Repulsion and Solvent Stabilization. Journal of Physical Chemistry A, 1998, 102, 8633-8636.	1.1	75
157	Photodetachment and theoretical study of free and water-solvated nitrate anions, NO3â¯(H2O)n (n=0â€“6). Journal of Chemical Physics, 2002, 116, 561-570.	1.2	75
158	Gold as hydrogen: Structural and electronic properties and chemical bonding in Si3Au3+â•0â•â¯ and comparisons to Si3H3+â•0â•â¯. Journal of Chemical Physics, 2006, 125, 133204.	1.2	75
159	Structural Evolution of Anionic Silicon Clusters SiN(20 â‰¤Nâ‰¤ 45). Journal of Physical Chemistry A, 2006, 110, 908-912.	1.1	75
160	Photodetachment of Hydrated Sulfate Doubly Charged Anions:â€‰ SO42-(H2O)n (n = 4â¯40)â€. Journal of Physical Chemistry A, 2002, 106, 7607-7616.	1.1	74
161	Probing the Intrinsic Electronic Structure of the Cubane [4Feâ¯4S] Cluster:Â Nature's Favorite Cluster for Electron Transfer and Storage. Journal of the American Chemical Society, 2003, 125, 14072-14081.	6.6	74
162	Photoelectron spectroscopy of anions at 118.2nm: Observation of high electron binding energies in superhalogens MCl4â¯ (M=Sc, Y, La). Journal of Chemical Physics, 2008, 128, 201102.	1.2	74

#	Article	IF	Citations
163	Observation of earlier two-to-three dimensional structural transition in gold cluster anions by isoelectronic substitution: MAunâ^'â€^(n=8â€“11;â€,M=Ag,Cu). Journal of Chemical Physics, 2010, 132, 114306.	1.2	74
164	Photoelectron Spectroscopy of Doubly and Singly Charged Group VIB Dimetalate Anions:â€‰ M2O72-, MMâ€˜O72-, and M2O7- (M, Mâ€˜ = Cr, Mo, W). Journal of Physical Chemistry A, 2005, 109, 10512-10520.	1.1	73
165	Planarization of B₇^{â^'} and B₁₂^{â^'} Clusters by Isoelectronic Substitution: AlB₆^{â^'} and AlB₁₁^{â^'}. Journal of the American Chemical Society, 2011, 133, 8646-8653.	6.6	73
166	Vibrational Spectroscopy of the Dehydrogenated Uracil Radical by Autodetachment of Dipoleâ€Bound Excited States of Cold Anions. Angewandte Chemie - International Edition, 2014, 53, 2464-2468.	7.2	73
167	Probing the Electronic Structure and Chemical Bonding of Gold Oxides and Sulfides in AuO_n^{â^'} and AuS_n^{â^'} (n = 1, 2). Journal of the American Chemical Society, 2008, 130, 9156-9167.	6.6	72
168	Elongation of Planar Boron Clusters by Hydrogenation: Boron Analogues of Polyenes. Journal of the American Chemical Society, 2012, 134, 13228-13231.	6.6	72
169	Observation of highly stable and symmetric lanthanide octa-boron inverse sandwich complexes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6972-E6977.	3.3	72
170	Direct Experimental Probe of the On-Site Coulomb Repulsion in the Doubly Charged Fullerene AnionC702â^'. Physical Review Letters, 2006, 96, 143002.	2.9	71
171	Boronyl Chemistry: The BO Group as a New Ligand in Gas-Phase Clusters and Synthetic Compounds. Accounts of Chemical Research, 2014, 47, 2435-2445.	7.6	71
172	Probing solution-phase species and chemistry in the gas phase. International Reviews in Physical Chemistry, 2002, 21, 473-498.	0.9	70
173	Experimental and Computational Studies of Alkali-Metal Coinage-Metal Clusters. Journal of Physical Chemistry A, 2006, 110, 4244-4250.	1.1	70
174	Valence isoelectronic substitution in the B8â^' and B9â^' molecular wheels by an Al dopant atom: Umbrella-like structures of AlB7â^' and AlB8â^'. Journal of Chemical Physics, 2011, 135, 104301.	1.2	70
175	Toward Solution Syntheses of the Tetrahedral Au₂₀ Pyramid and Atomically Precise Gold Nanoclusters with Uncoordinated Sites. Accounts of Chemical Research, 2018, 51, 2159-2168.	7.6	68
176	Elucidation of the Formation Mechanisms of the Octahydrotriborate Anion (B₃H₈^{â€“}) through the Nucleophilicity of the Bâ€“H Bond. Journal of the American Chemical Society, 2018, 140, 6718-6726.	6.6	68
177	Electronic and Structural Evolution and Chemical Bonding in Ditungsten Oxide Clusters:Â W2On-and W2On(n= 1â^'6). Journal of Physical Chemistry A, 2005, 109, 6019-6030.	1.1	67
178	Are Carboxyl Groups the Most Acidic Sites in Amino Acids? Gas-Phase Acidities, Photoelectron Spectra, and Computations on Tyrosine, p-Hydroxybenzoic Acid, and Their Conjugate Bases. Journal of the American Chemical Society, 2009, 131, 1174-1181.	6.6	67
179	Peculiar Antiaromatic Inorganic Molecules of Tetrapnictogen in Na+Pn4-(Pn = P, As, Sb) and Important Consequences for Hydrocarbons. Inorganic Chemistry, 2002, 41, 6062-6070.	1.9	66
180	Gold Dichloride and Gold Dibromide with Gold Atoms in Three Different Oxidation States. Angewandte Chemie - International Edition, 2003, 42, 311-314.	7.2	66

#	Article	IF	Citations
181	Photoelectron spectroscopy of pentaatomic tetracoordinate planar carbon molecules: CAl3Siâ^' and CAl3Geâ^'. Chemical Physics Letters, 2002, 357, 415-419.	1.2	65
182	A photoelectron spectroscopy and ab initio study of the structures and chemical bonding of the B25â^' cluster. Journal of Chemical Physics, 2014, 141, 034303.	1.2	65
183	[La(Î·^x-B_x)La]^{â^'} (x = 7â€“9): a new class of inverse sandwich complexes. Chemical Science, 2019, 10, 2534-2542.	3.7	65
184	Photoelectron Spectroscopy and Theoretical Calculations of SO4-and HSO4-:Â Confirmation of High Electron Affinities of SO4and HSO4. Journal of Physical Chemistry A, 2000, 104, 504-508.	1.1	64
185	Competition between linear and cyclic structures in monochromium carbide clusters CrCnâ^' and CrCnâ€Š(n=2â€“8): A photoelectron spectroscopy and density functional study. Journal of Chemical Physics, 2004, 120, 8996-9008.	1.2	64
186	Vibrationally resolved photoelectron spectroscopy of the first row transition metal and C3 clusters: MC3â^' (M=Sc, V, Cr, Mn, Fe, Co, and Ni). Journal of Chemical Physics, 2000, 112, 3602-3608.	1.2	63
187	Geometric and electronic factors in the rational design of transition-metal-centered boron molecular wheels. Journal of Chemical Physics, 2013, 138, 134315.	1.2	63
188	Perspective: Electrospray photoelectron spectroscopy: From multiply-charged anions to ultracold anions. Journal of Chemical Physics, 2015, 143, 040901.	1.2	63
189	PrB₇^{â^'}: A Praseodymiumâ€Doped Boron Cluster with a Pr^{II} Center Coordinated by a Doubly Aromatic Planar Î·⁷â€B₇^{3â^'} Ligand. Angewandte Chemie - International Edition, 2017, 56, 6916-6920.	7.2	63
190	Tuning the electronic properties of the golden buckyball by endohedral doping: M@Au16â^' (M=Ag,Zn,In). Journal of Chemical Physics, 2009, 130, 051101.	1.2	61
191	On the way to the highest coordination number in the planar metal-centred aromatic TaÂ©B10â^' cluster: Evolution of the structures of TaBnâ^' (n = 3â€“8). Journal of Chemical Physics, 2013, 139, 104312.	1.2	61
192	Probing the Electronic Structure of Metallocarbohedrenes:Â M8C12(M = Ti, V, Cr, Zr, Nb). Journal of the American Chemical Society, 1997, 119, 7417-7422.	6.6	60
193	Investigation of Free Singly and Doubly Charged Alkali Metal Sulfate Ion Pairs:â€‰ M+(SO42-) and [M+(SO42-)]2 (M = Na, K). Journal of Physical Chemistry A, 1999, 103, 3423-3429.	1.1	60
194	The electronic structure of CuCl2 and CuBr2 from anion photoelectron spectroscopy and ab initio calculations. Journal of Chemical Physics, 2001, 114, 7388-7395.	1.2	60
195	Structural and Electronic Properties of Reduced Transition Metal Oxide Clusters, M₃O₈and M₃O₈^{â^'}(M = Cr, W), from Photoelectron Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2009, 113, 11273-11288.	1.1	60
196	B27â^': Appearance of the smallest planar boron cluster containing a hexagonal vacancy. Journal of Chemical Physics, 2015, 142, 204305.	1.2	60
197	Experimental and theoretical study of the photoelectron spectra of MnOxâ^'(x=1â€“3) clusters. Journal of Chemical Physics, 2000, 113, 1473-1483.	1.2	59
198	Bulk versus Interfacial Aqueous Solvation of Dicarboxylate Dianions. Journal of the American Chemical Society, 2004, 126, 11691-11698.	6.6	59

#	Article	IF	Citations
199	Allâ€Metal Antiaromaticity in Sb₄â€Type Lanthanocene Anions. Angewandte Chemie - International Edition, 2016, 55, 5531-5535.	7.2	59
200	Vibrationally Resolved Photoelectron Spectra of TiCx-(x= 2â¯5) Clusters. Journal of Physical Chemistry A, 1997, 101, 7699-7701.	1.1	56
201	Vibrationally Resolved Photoelectron Spectroscopy of MgO- and ZnO- and the Low-Lying Electronic States of MgO, MgO-, and ZnO. Journal of Physical Chemistry A, 2001, 105, 5709-5718.	1.1	56
202	Au10â¯: isomerism and structure-dependent O2 reactivity. Physical Chemistry Chemical Physics, 2009, 11, 2663.	1.3	56
203	Hexagonal Bipyramidal [Ta₂B₆]^{â¯/0} Clusters: B₆ Rings as Structural Motifs. Angewandte Chemie - International Edition, 2014, 53, 1288-1292.	7.2	56
204	Observation of a spin-protected high-energy isomer of Al4Nâ¯ cluster. Chemical Physics Letters, 1999, 301, 379-384.	1.2	55
205	Structural and electronic properties of iron monoxide clusters FenO and FenOâ¯â€Š(n=2â€“6): A combined photoelectron spectroscopy and density functional theory study. Journal of Chemical Physics, 2003, 119, 11135-11145.	1.2	55
206	Probing the Electronic and Structural Properties of the Niobium Trimer Cluster and Its Mono- and Dioxides: Nb₃O_n^{â¯} and Nb₃O_n (n = 0â¯2). Journal of Physical Chemistry A, 2009, 113, 3866-3875.	1.1	55
207	Photoelectron Spectroscopy of Free Polyoxoanions Mo6O192-and W6O192-in the Gas Phase. Journal of Physical Chemistry A, 2004, 108, 10089-10093.	1.1	54
208	Observation of Cysteine Thiolate and-SÂ·Â·Â·Hâ¯O Intermolecular Hydrogen Bond. Journal of Physical Chemistry A, 2006, 110, 12603-12606.	1.1	54
209	New Magic Numbers in TixCy-Anion Clusters and Implications for the Growth Mechanisms of Titanium Carbide Clusters. Journal of the American Chemical Society, 1998, 120, 6556-6562.	6.6	53
210	Probing the Electronic Structure and Chemical Bonding in Tricoordinate Uranyl Complexes UO₂X₃^{â€“} (X = F, Cl, Br, I): Competition between Coulomb Repulsion and Uâ€“X Bonding. Inorganic Chemistry, 2013, 52, 6617-6626.	1.9	53
211	Probing the nature of goldâ€“carbon bonding in goldâ€“alkynyl complexes. Nature Communications, 2013, 4, 2223.	5.8	52
212	(MgO)nâ¯(n=1â€“5)Clusters: Multipole-Bound Anions and Photodetachment Spectroscopy. Physical Review Letters, 2000, 85, 3145-3148.	2.9	51
213	Observation of Weak Cï£¿Hâ‹…â‹…â‹…O Hydrogen Bonding to Unactivated Alkanes. Angewandte Chemie - International Edition, 2005, 44, 4968-4972.	7.2	51
214	Chemisorption-induced Structural Changes and Transition from Chemisorption to Physisorption in Au₆(CO)_n^{â¯} (n = 4â¯9). Journal of Physical Chemistry C, 2008, 112, 11920-11928.	1.5	51
215	Photoelectron Imaging and Spectroscopy of MI2â¯(M = Cs, Cu, Au): Evolution from Ionic to Covalent Bondingâ€. Journal of Physical Chemistry A, 2010, 114, 11244-11251.	1.1	51
216	Photodetachment of Fâ¯(H2O)nâ€,(n=1â€“4): Observation of charge-transfer states [Fâ¯(H2O)n+] and the transition state of F+H2O hydrogen abstraction reaction. Journal of Chemical Physics, 2001, 115, 2889-2892.	1.2	50

#	Article	IF	Citations
217	Geometrical requirements for transition-metal-centered aromatic boron wheels: the case of VB10â^'. Physical Chemistry Chemical Physics, 2012, 14, 13663.	1.3	50
218	On the origin of planarity in Al[sub 5][sup â^'] and Al[sub 5] clusters: The importance of a four-center peripheral bond. Journal of Chemical Physics, 2000, 113, 5130.	1.2	49
219	Determination of the Electron Affinity of the Acetyloxyl Radical (CH3COO) by Low-Temperature Anion Photoelectron Spectroscopy and ab Initio Calculations. Journal of Physical Chemistry A, 2006, 110, 5047-5050.	1.1	49
220	Stoichiometric and Oxygen-Rich M₂O_n^{â^'}and M₂O_n(M = Nb, Ta;n= 5â^'7) Clusters: Molecular Models for Oxygen Radicals, Diradicals, and Superoxides. Journal of the American Chemical Society, 2011, 133, 3085-3094.	6.6	49
221	The electronic structure and chemical bonding in gold dihydride: AuH2â^' and AuH2. Chemical Science, 2012, 3, 3286.	3.7	49
222	On the electronic structures of gaseous transition metal halide complexes, FeX4â^' and MX3â^' (M=Mn,) Tj ETQq0 0 0 rgBT /Overlock 10 of Chemical Physics, 2003, 119, 8311-8320.	1.2	48
223	Multiple Aromaticity and Antiaromaticity in Silicon Clusters. ChemPhysChem, 2004, 5, 1885-1891.	1.0	48
224	Direct Measurement of the Hydrogen-Bonding Effect on the Intrinsic Redox Potentials of [4Feâ^'4S] Cubane Complexes. Journal of the American Chemical Society, 2004, 126, 15790-15794.	6.6	48
225	Structural Evolution, Sequential Oxidation, and Chemical Bonding in Tritantalum Oxide Clusters: Ta3Onâ^' and Ta3On (n = 1â^'8). Journal of Physical Chemistry A, 2009, 113, 9804-9813.	1.1	48
226	Detecting Weak Interactions between Au^{â^'} and Gas Molecules: A Photoelectron Spectroscopic and Ab Initio Study. Journal of the American Chemical Society, 2009, 131, 9484-9485.	6.6	48
227	Photoelectron spectroscopy of aromatic compound clusters of the B12 all-boron benzene: B12Auâ^' and B12(BO)â^'. Physical Chemistry Chemical Physics, 2013, 15, 9646.	1.3	48
228	B26â^': The smallest planar boron cluster with a hexagonal vacancy and a complicated potential landscape. Chemical Physics Letters, 2017, 683, 336-341.	1.2	48
229	The electronic structure and electron affinities of higher chlorine oxide radicals ClOx (x=2â€“4) from photoelectron spectroscopy of ClOxâ^' anions. Journal of Chemical Physics, 2000, 113, 10928-10933.	1.2	47
230	Photodetachment of Gaseous Multiply Charged Anions, Copper Phthalocyanine Tetrasulfonate Tetraanion:Â Tuning Molecular Electronic Energy Levels by Charging and Negative Electron Binding. Journal of Physical Chemistry A, 2000, 104, 25-33.	1.1	47
231	On the Electronic Structure and Chemical Bonding in the Tantalum Trimer Cluster. Journal of Physical Chemistry A, 2008, 112, 10962-10967.	1.1	47
232	Photoelectron Spectroscopy of Cold Hydrated Sulfate Clusters, SO₄^{2â^'}(H₂O)_n (n = 4â^'7): Temperature-Dependent Isomer Populations. Journal of Physical Chemistry A, 2009, 113, 5567-5576.	1.1	47
233	Vibrationally Resolved Photoelectron Spectroscopy of Di-Gold Carbonyl Clusters Au₂(CO)_n^{â^'} (n = 1â^'3): Experiment and Theory. Journal of Physical Chemistry A, 2010, 114, 1247-1254.	1.1	47
234	Photoelectron spectroscopy and the electronic structure of the uranyl tetrachloride dianion: UO2Cl42â^'. Journal of Chemical Physics, 2012, 137, 064315.	1.2	47

#	Article	IF	Citations
235	Photodetachment of Multiply Charged Anions:â€‰ The Electronic Structure of Gaseous Square-Planar Transition Metal Complexes PtX42- (X = Cl, Br). Journal of the American Chemical Society, 2000, 122, 2339-2345.	6.6	46
236	Probing the electronic properties of dichromium oxide clusters Cr2Onâ¯ (n=1â€“7) using photoelectron spectroscopy. Journal of Chemical Physics, 2006, 125, 164315.	1.2	46
237	Observation and investigation of the uranyl tetrafluoride dianion (UO2F42â¯) and its solvation complexes with water and acetonitrile. Chemical Science, 2012, 3, 1137.	3.7	46
238	High resolution photoelectron imaging of Au2â¯. Journal of Chemical Physics, 2013, 138, 184304.	1.2	46
239	Probing the Critical Dipole Moment To Support Excited Dipole-Bound States in Valence-Bound Anions. Journal of Physical Chemistry Letters, 2019, 10, 6472-6477.	2.1	46
240	Observation of Four-Fold Boronâ€“Metal Bonds in RhB(BO^{â€“}) and RhB. Journal of Physical Chemistry Letters, 2020, 11, 659-663.	2.1	46
241	The electronic structure and chemical bonding of hypermetallic Al5C by ab initio calculations and anion photoelectron spectroscopy. Journal of Chemical Physics, 1999, 111, 4993-4998.	1.2	45
242	Probing the electronic structure of redox species and direct determination of intrinsic reorganization energies of electron transfer reactions. Journal of Chemical Physics, 2000, 112, 6959-6962.	1.2	45
243	Intramolecular Coulomb repulsion and anisotropies of the repulsive Coulomb barrier in multiply charged anions. Journal of Chemical Physics, 2000, 113, 653-661.	1.2	45
244	Experimental and Theoretical Investigations of the Stability, Energetics, and Structures of H2PO4-, H2P2O72-, and H3P3O102-in the Gas Phase. Journal of Physical Chemistry A, 2001, 105, 10468-10474.	1.1	45
245	Lithium-Assisted Self-Assembly of Aluminum Carbide Nanowires and Nanoribbons. Nano Letters, 2002, 2, 105-108.	4.5	45
246	Observation of Au[sub 2]H[sup â¯] impurity in pure gold clusters and implications for the anomalous Au-Au distances in gold nanowires. Journal of Chemical Physics, 2004, 121, 8231.	1.2	45
247	Solvation of the Azide Anion (N3-) in Water Clusters and Aqueous Interfaces:Â A Combined Investigation by Photoelectron Spectroscopy, Density Functional Calculations, and Molecular Dynamics Simulationsâ€. Journal of Physical Chemistry A, 2004, 108, 7820-7826.	1.1	45
248	Probing the electronic and structural properties of doped aluminum clusters: MAl12â¯ (M=Li, Cu, and) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	45
249	On the Electronic and Structural Properties of Tri-Niobium Oxide Clusters Nb₃O_n^{â¯} (n = 3â¯8): Photoelectron Spectroscopy and Density Functional Calculations. Journal of Physical Chemistry A, 2010, 114, 5958-5966.	1.1	45
250	Structure evolution of gold cluster anions between the planar and cage structures by isoelectronic substitution: Aunâ¯ (n = 13â€“15) and MAunâ¯ (n = 12â€“14; M = Ag, Cu). Journal of Chemical Physics, 2011, 134, 054306.	1.2	45
251	Combined photoelectron spectroscopy and ab initio study of the hypermetallic Al3C molecule. Journal of Chemical Physics, 1999, 110, 8980-8985.	1.2	44
252	On the Chemical Bonding of Gold in Auro-Boron Oxide Clusters AunBO-(n= 1â¯3). Journal of Physical Chemistry A, 2007, 111, 1648-1658.	1.1	44

#	Article	IF	Citations
253	Planar B₄₁^{â^'}and B₄₂^{â^'}clusters with double-hexagonal vacancies. Nanoscale, 2019, 11, 23286-23295.	2.8	44
254	Photoelectron spectroscopy of small chromium clusters: Observation of even-odd alternations and theoretical interpretation. Physical Review B, 1997, 55, 12884-12887.	1.1	43
255	Photoelectron spectroscopy of Tinâ^' clusters (n=1â€“130). Journal of Chemical Physics, 2003, 118, 2108-2115.	1.2	43
256	Aluminum Avoids the Central Position in AlB₉^{â€“}and AlB₁₀^{â€“}: Photoelectron Spectroscopy and ab Initio Study. Journal of Physical Chemistry A, 2011, 115, 10391-10397.	1.1	43
257	Probing the electronic structure and chemical bonding of the â€œstapleâ€•motifs of thiolate gold nanoparticles: Au(SCH3)2â^' and Au2(SCH3)3â^'. Physical Chemistry Chemical Physics, 2012, 14, 9323.	1.3	43
258	Spherical trihedral metallo-borospherenes. Nature Communications, 2020, 11, 2766.	5.8	43
259	B₄₈^{â^'}: a bilayer boron cluster. Nanoscale, 2021, 13, 3868-3876.	2.8	43
260	Growth Pathways of Metallocarbohedrenes: Cagelike or Cubic?. Physical Review Letters, 1997, 78, 2983-2986.	2.9	42
261	Vibrationally resolved photoelectron spectra of CuCNâ^'and AgCNâ^'andab initiostudies of the structure and bonding in CuCN. Journal of Chemical Physics, 2000, 112, 3627-3632.	1.2	42
262	Photodetachment of Zwitterions:Â Probing Intramolecular Coulomb Repulsion and Attraction in the Gas Phase Using Pyridinium Dicarboxylate Anions. Journal of the American Chemical Society, 2003, 125, 296-304.	6.6	42
263	Isomerism and Structural Fluxionality in the Au₂₆ and Au₂₆^{â€“} Nanoclusters. ACS Nano, 2014, 8, 7413-7422.	7.3	42
264	The chemical bonding and electronic structure of RhC, RhN, and RhO by anion photoelectron spectroscopy. Journal of Chemical Physics, 1998, 109, 5264-5268.	1.2	41
265	Solvent-Mediated Folding of a Doubly Charged Anion. Journal of the American Chemical Society, 2004, 126, 876-883.	6.6	41
266	Photoelectron Spectroscopy of Singly and Doubly Charged Higher Fullerenes at Low Temperatures:â€‰ C76-, C78-, C84-and C762-, C782-, C842-â€. Journal of Physical Chemistry C, 2007, 111, 17684-17689.	1.5	41
267	The mixed cyanide halide Au(i) complexes, [XAuCN]â^' (X = F, Cl, Br, and I): evolution from ionic to covalent bonding. Chemical Science, 2011, 2, 2101.	3.7	41
268	B₃₃^{â€“} and B₃₄^{â€“}: Aromatic Planar Boron Clusters with a Hexagonal Vacancy. European Journal of Inorganic Chemistry, 2017, 2017, 4546-4551.	1.0	41
269	High-resolution photoelectron imaging and resonant photoelectron spectroscopy via noncovalently bound excited states of cryogenically cooled anions. Chemical Science, 2019, 10, 9409-9423.	3.7	41
270	Experimental and Theoretical Investigations of the Stability of Two Small Gaseous Dicarboxylate Dianions:Â Acetylene Dicarboxylate and Succinate. Journal of the American Chemical Society, 2000, 122, 4499-4507.	6.6	40

#	Article	IF	Citations
271	Experimental Observation of a Very High Second Electron Affinity for ZrF6 from Photodetachment of Gaseous ZrF62- Doubly Charged Anions. Journal of Physical Chemistry A, 2000, 104, 4429-4432.	1.1	40
272	Electronic and Structural Evolution of Monoiron Sulfur Clusters, FeSn- and FeSn (n = 1â^'6), from Anion Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2003, 107, 2821-2828.	1.1	40
273	Pi and sigma double conjugations in boronyl polyboroene nanoribbons: B_n(BO)₂^{â^'} and B_n(BO)₂ (n = 5â^'12). Journal of Chemical Physics, 2013, 139, 174301.	1.2	40
274	ReÂ©B₈^{â€“} and ReÂ©B₉^{â€“}: New Members of the Transition-Metal-Centered Borometallic Molecular Wheel Family. Journal of Physical Chemistry A, 2019, 123, 5317-5324.	1.1	40
275	Combined Quantum Chemistry and Photoelectron Spectroscopy Study of the Electronic Structure and Reduction Potentials of Rubredoxin Redox Site Analogues. Journal of Physical Chemistry A, 2003, 107, 2898-2907.	1.1	39
276	Photodetachment of hydrated oxalate dianions in the gas phase, C2O42â^'(H2O)n (n=3â€“40): From solvated clusters to nanodroplet. Journal of Chemical Physics, 2003, 119, 3631-3640.	1.2	39
277	Electrospray ionization photoelectron spectroscopy: Probing the electronic structure of inorganic metal complexes in the gas-phase. Coordination Chemistry Reviews, 2007, 251, 474-491.	9.5	39
278	Bridging Î·²â€BO in B₂(BO)₃^{â^'} and B₃(BO)₃^{â^'} Clusters: Boronyl Analogs of Boranes. ChemPhysChem, 2011, 12, 2549-2553.	1.0	39
279	Facile Synthesis of Unsolvated Alkali Metal Octahydrotriborate Salts MB₃H₈ (M=K, Rb, and Cs), Mechanisms of Formation, and the Crystal Structure of KB₃H₈. Angewandte Chemie - International Edition, 2019, 58, 2720-2724.	7.2	39
280	Lanthanides with Unusually Low Oxidation States in the PrB₃^{â€“} and PrB₄^{â€“} Boride Clusters. Inorganic Chemistry, 2019, 58, 411-418.	1.9	39
281	The electronic structure of MoC and WC by anion photoelectron spectroscopy. Journal of Chemical Physics, 1999, 111, 2464-2469.	1.2	38
282	Probing the Electronic Structure and Metalâ^'Metal Bond of Re2Cl82-in the Gas Phase. Journal of the American Chemical Society, 2000, 122, 2096-2100.	6.6	38
283	Communication: Vibrational spectroscopy of Au4 from high resolution photoelectron imaging. Journal of Chemical Physics, 2013, 139, 021106.	1.2	38
284	Observation of Excited Quadrupole-Bound States in Cold Anions. Physical Review Letters, 2017, 119, 023002.	2.9	38
285	Photoelectron spectroscopy of mono-niobium carbide clusters NbCnâ^'(n=2â€“7): Evidence for a cyclic to linear structural transition. Journal of Chemical Physics, 2001, 115, 5170-5178.	1.2	37
286	Ï€- and Ïƒ-Coordinated Al in AlC2-and AlCSi-. A Combined Photoelectron Spectroscopy and ab Initio Study. Journal of the American Chemical Society, 1999, 121, 10193-10197.	6.6	36
287	Electronic structure and chemical boning in nonstoichiometric molecules: Al3X2â^'(X=C,Si,Ge). A photoelectron spectroscopy andab initiostudy. Journal of Chemical Physics, 2002, 116, 1330-1338.	1.2	36
288	Probing the Low-Barrier Hydrogen Bond in Hydrogen Maleate in the Gas Phase:â€‰ A Photoelectron Spectroscopy and ab Initio Study. Journal of Physical Chemistry A, 2005, 109, 10633-10637.	1.1	36

#	Article	IF	Citations
289	Structural and Electronic Properties of Reduced Transition Metal Oxide Clusters, M₄O₁₀ and M₄O₁₀^{â€“} (M = Cr, W), from Photoelectron Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2012, 116, 5256-5271.	1.1	36
290	Structural Evolution of Coreâ€“Shell Gold Nanoclusters: Au_n^{â€“} (n = 42â€“50). ACS Nano, 2016, 10, 10013-10022.	7.3	36
291	La₃B₁₄^{â^’}: an inverse triple-decker lanthanide boron cluster. Chemical Communications, 2019, 55, 7864-7867.	2.2	36
292	The Synthesis, Bonding, and Transformation of a Ligandâ€Protected Gold Nanohydride Cluster. Angewandte Chemie - International Edition, 2021, 60, 2424-2430.	7.2	36
293	Planar nitrogen-doped aluminum clusters AlxNâ^’ (x=3â€“5). Journal of Chemical Physics, 2006, 125, 124305.	1.2	35
294	The electronic structure and chemical bonding of aluminum acetylide: Al2C2 and Al2C2â^’: An experimental and theoretical investigation. Journal of Chemical Physics, 2000, 113, 2671-2679.	1.2	34
295	Diversity of Functionalized Germanium Zintl Clusters: Syntheses and Theoretical Studies of [Ge9PdPPh3]3â^’ and [Ni@(Ge9PdPPh3)]2â^’. Journal of Cluster Science, 2009, 20, 601-609.	1.7	34
296	Planar to Linear Structural Transition in Small Boronâ^’Carbon Mixed Clusters: CxB5â^’xâ^’(x= 1â^’5). Journal of the American Chemical Society, 2010, 132, 14104-14112.	6.6	34
297	Communication: Vibrationally resolved photoelectron spectroscopy of the tetracyanoquinodimethane (TCNQ) anion and accurate determination of the electron affinity of TCNQ. Journal of Chemical Physics, 2015, 143, 221102.	1.2	34
298	Vibrationally resolved photoelectron spectroscopy of AlOâ^’ and AlO2â^’. International Journal of Mass Spectrometry and Ion Processes, 1996, 159, 75-80.	1.9	33
299	Photodetachment photoelectron spectroscopy of doubly charged anions: S2O82â^’. Journal of Chemical Physics, 1999, 110, 3635-3638.	1.2	33
300	Probing the Intrinsic Electronic Structure of the Bis(dithiolene) Anions [M(mnt)2]2-and [M(mnt)2]1-(M) Tj ETQq0 0 0 rgBT /Overlock 10 American Chemical Society, 2006, 128, 4282-4291.	6.6	33
301	CO chemisorption on the surfaces of the golden cages. Journal of Chemical Physics, 2009, 131, 234305.	1.2	33
302	A photoelectron spectroscopy and density functional study of di-tantalum boride clusters: Ta2Bxâ^’ (x) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	33
303	[B₃₀]^{â^’}: A Quasiplanar Chiral Boron Cluster. Angewandte Chemie, 2014, 126, 5646-5651.	1.6	33
304	Probing the vibrational spectroscopy of the deprotonated thymine radical by photodetachment and state-selective autodetachment photoelectron spectroscopy via dipole-bound states. Chemical Science, 2015, 6, 3129-3138.	3.7	33
305	Polymorphism of Phosphine-Protected Gold Nanoclusters: Synthesis and Characterization of a New 22-Gold-Atom Cluster. Small, 2016, 12, 2518-2525.	5.2	33
306	Cu3C4-:Â A New Sandwich Molecule with Two Revolving C22-Units. Journal of Physical Chemistry A, 2005, 109, 562-570.	1.1	32

#	Article	IF	Citations
307	Molecular wheel to monocyclic ring transition in boronâ€“carbon mixed clusters C2B6âˆ’ and C3B5âˆ’. Physical Chemistry Chemical Physics, 2011, 13, 8805.	1.3	32
308	Photoelectron spectroscopy of boron-gold alloy clusters and boron boronyl clusters: B3Aunâˆ’ and B3(BO)nâˆ’ (n = 1, 2). Journal of Chemical Physics, 2013, 139, 044308.	1.2	32
309	Si3O4-: vibrationally resolved photoelectron spectrum and ab initio calculations. Journal of the American Chemical Society, 1995, 117, 5417-5418.	6.6	31
310	On the Electronic Structure of [1Fe] Feâˆ’S Complexes from Anionic Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2003, 107, 1703-1709.	1.1	30
311	Theoretical Probing of Deltahedralcloso-AuroBoranes BxAux2-(x= 5âˆ’12). Inorganic Chemistry, 2006, 45, 5269-5271.	1.9	30
312	Investigating the Weak to Evaluate the Strong: An Experimental Determination of the Electron Binding Energy of Carborane Anions and the Gas phase Acidity of Carborane Acids. Journal of the American Chemical Society, 2009, 131, 18050-18051.	6.6	30
313	Photoelectron spectroscopy and theoretical studies of gaseous uranium hexachlorides in different oxidation states: UCl6qâˆ’ (q = 0â€“2). Journal of Chemical Physics, 2015, 142, 134308.	1.2	30
314	Collision-induced dissociation and photodetachment of singly and doubly charged anionic polynuclear transition metal carbonyl clusters: Ru3Co(CO)13âˆ’, Ru6C(CO)162âˆ’, and Ru6(CO)182âˆ’. Journal of Chemical Physics, 2002, 116, 6560-6566.	1.2	29
315	Evolution of the electronic properties of small Ninâˆ’â€Š(n=1â€“100) clusters by photoelectron spectroscopy. Journal of Chemical Physics, 2002, 117, 9758-9765.	1.2	29
316	Probing the Electronic Structure of the Di-Iron Subsite of [Fe]-Hydrogenase:â€‰ A Photoelectron Spectroscopic Study of Fe(I)âˆ’Fe(I) Model Complexes. Journal of Physical Chemistry A, 2003, 107, 4612-4618.	1.1	29
317	Photoelectron Spectroscopy and Ab Initio Study of the Structure and Bonding of Al₇N⁻ and Al₇N. Journal of Physical Chemistry A, 2008, 112, 1873-1879.	1.1	29
318	Chemisorption-Induced 2Dâ€“3Dâ€“2D Structural Transitions in Gold Heptamer: (CO)_nAu₇^{â€“} (n = 1â€“4). Journal of Physical Chemistry Letters, 2011, 2, 2288-2293.	2.1	29
319	Strong electron correlation in UO2âˆ’: A photoelectron spectroscopy and relativistic quantum chemistry study. Journal of Chemical Physics, 2014, 140, 094306.	1.2	29
320	Vibrational state-selective autodetachment photoelectron spectroscopy from dipole-bound states of cold 2-hydroxyphenoxide: o âˆ’ HO(C6H4)Oâˆ’. Journal of Chemical Physics, 2015, 142, 124309.	1.2	29
321	Probing the Electronic Structure and Chemical Bonding of Mono-Uranium Oxides with Different Oxidation States: UO_x^{â€“} and UO_x (x = 3â€“5). Journal of Physical Chemistry A, 2016, 120, 1084-1096.	1.1	29
322	Photoelectron Spectroscopy of Free Multiply Charged Keggin Anions Î±-[PM12O40]3-(M = Mo, W) in the Gas Phase. Journal of Physical Chemistry A, 2006, 110, 10737-10741.	1.1	28
323	On the structure and chemical bonding of Si62âˆ’ and Si62âˆ’ in NaSi6âˆ’ upon Na+ coordination. Journal of Chemical Physics, 2006, 124, 124305.	1.2	28
324	Resonant photoelectron imaging of deprotonated uracil anion via vibrational levels of a dipole-bound excited state. Chemical Physics, 2017, 482, 374-383.	0.9	28

#	Article	IF	Citations
325	Observation of Entropic Effect on Conformation Changes of Complex Systems under Well-Controlled Temperature Conditions. Journal of Physical Chemistry A, 2008, 112, 172-175.	1.1	27
326	The [(Al₂O₃)₂]^{â˜’} Anion Cluster: Electron Localizationâ€“Delocalization Isomerism. ChemPhysChem, 2009, 10, 2410-2413.	1.0	27
327	Resonant tunneling through the repulsive Coulomb barrier of a quadruply charged molecular anion. Physical Review A, 2012, 85, .	1.0	27
328	On the goldâ€“ligand covalency in linear [AuX₂]^{â˜’} complexes. Dalton Transactions, 2015, 44, 5535-5546.	1.6	27
329	Bismuthâ€“Boron Multiple Bonding in BiB₂O^{â˜’} and Bi₂B^{â˜’}. Angewandte Chemie - International Edition, 2017, 56, 9551-9555.	7.2	27
330	[(Cp₂M)₂B₉H₁₁] (MÂ= Zr or Hf): early transition metal â€˜guardedâ€™ heptaborane with strong covalent and electrostatic bonding. Chemical Science, 2018, 9, 1976-1981.	3.7	27
331	Chemical Bonding in Si52-and NaSi5-via Photoelectron Spectroscopy and ab Initio Calculationsâ€. Journal of Physical Chemistry A, 2005, 109, 11385-11394.	1.1	26
332	Probing the structures and chemical bonding of boron-boronyl clusters using photoelectron spectroscopy and computational chemistry: B4(BO)nâ˜’ (n = 1â€“3). Journal of Chemical Physics, 2012, 137, 044307.	1.2	26
333	Probing the electronic structure and Auâ€“C chemical bonding in AuC2â˜’ and AuC2 using high-resolution photoelectron spectroscopy. Journal of Chemical Physics, 2014, 140, 084303.	1.2	26
334	Dipole-bound excited states and resonant photoelectron imaging of phenoxide and thiophenoxide anions. Journal of Chemical Physics, 2018, 149, 164301.	1.2	26
335	Observation of MÃ¶bius Aromatic Planar Metallaborocycles. Journal of the American Chemical Society, 2020, 142, 3356-3360.	6.6	26
336	STUDY OF IRONâ€“CARBON MIXED CLUSTERS FeCn (n=2â˜’5): A POSSIBLE LINEAR-TO-CYCLIC TRANSITION FROM FeC3 TO FeC4. Surface Review and Letters, 1996, 03, 423-427.	0.5	25
337	Conformation-Selective Resonant Photoelectron Spectroscopy via Dipole-Bound States of Cold Anions. Journal of Physical Chemistry Letters, 2015, 6, 2153-2157.	2.1	25
338	Observation of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math> -Type Dipole-Bound State in Molecular Anions. Physical Review Letters, 2020, 125, 073003.	2.9	25
339	Selective Semihydrogenation of Polarized Alkynes by a Gold Hydride Nanocluster. Journal of the American Chemical Society, 2022, 144, 12501-12509.	6.6	25
340	Mechanistic Insight into the Symmetric Fission of [4Feâ˜’4S] Analogue Complexes and Implications for Cluster Conversions in Ironâ˜’Sulfur Proteins. Journal of Physical Chemistry A, 2004, 108, 6750-6757.	1.1	24
341	Observation of H₂ Aggregation onto a Doubly Charged Anion in a Temperature-Controlled Ion Trap. Journal of Physical Chemistry A, 2008, 112, 13271-13274.	1.1	24
342	Stable icosahedral hollow cage clusters: stannaspherene and plumbaspherene. International Reviews in Physical Chemistry, 2008, 27, 139-166.	0.9	24

#	Article	IF	Citations
343	Stepwise hydration of the cyanide anion: A temperature-controlled photoelectron spectroscopy and ab initio computational study of CNâ¯(H2O)n, n=2â€“5. Journal of Chemical Physics, 2010, 132, 124306.	1.2	24
344	On the structures and bonding in boron-gold alloy clusters: B6Aunâ¯ and B6Aun (n = 1â¯3). Journal of Chemical Physics, 2013, 138, 084306.	1.2	24
345	Communication: Observation of dipole-bound state and high-resolution photoelectron imaging of cold acetate anions. Journal of Chemical Physics, 2015, 142, 091103.	1.2	24
346	Probing the structures of goldâ€“aluminum alloy clusters Au_xAl_y^{â¯}: a joint experimental and theoretical study. Nanoscale, 2016, 8, 9805-9814.	2.8	24
347	Resonant Two-Photon Photoelectron Imaging and Intersystem Crossing from Excited Dipole-Bound States of Cold Anions. Journal of Physical Chemistry Letters, 2019, 10, 4339-4344.	2.1	24
348	Highâ€Resolution Photoelectron Imaging of IrB₃^{â¯}: Observation of a Ï€â€Aromatic B₃⁺ Ring Coordinated to a Transition Metal. Angewandte Chemie - International Edition, 2019, 58, 8877-8881.	7.2	24
349	IRON CLUSTERS AND OXYGEN-CHEMISORBED IRON CLUSTERS. Surface Review and Letters, 1996, 03, 695-699.	0.5	23
350	Photoelectron Spectroscopy of the Doubly-Charged Anions [MIVO(mnt)2]2-(M = Mo, W; mnt =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 American Chemical Society, 2004, 126, 5119-5129.	6.6	23
351	Monohafnium Oxide Clusters HfO_n^{â€“} and HfO_n (n = 1â€“6): Oxygen Radicals, Superoxides, Peroxides, Diradicals, and Triradicals. Journal of Physical Chemistry A, 2013, 117, 1042-1052.	1.1	23
352	Collision-induced symmetric fission of doubly-charged cubelike [Fe4S4X4]2â¯ clusters. International Journal of Mass Spectrometry, 2003, 228, 797-805.	0.7	22
353	Temperature-Dependent Photoelectron Spectroscopy of Methyl Benzoate Anions:Â Observation of Steric Effect ino-Methyl Benzoateâ€. Journal of Physical Chemistry A, 2005, 109, 11395-11400.	1.1	22
354	Photoelectron Spectroscopy of the Bis(dithiolene) Anions [M(mnt)2]n-(M = Fe â¯ Zn;n= 1, 2):Â Changes in Electronic Structure with Variation of Metal Center and with Oxidation. Inorganic Chemistry, 2006, 45, 5841-5851.	1.9	22
355	Free tetra- and hexa-coordinated platinum-cyanide dianions, and : A combined photodetachment photoelectron spectroscopic and theoretical study. Chemical Physics, 2006, 329, 230-238.	0.9	22
356	Observation of linear to planar structural transition in sulfur-doped gold clusters: AuxSâ¯ (x = 2â€“5). Journal of Chemical Physics, 2013, 138, 174303.	1.2	22
357	Vibrational State-Selective Resonant Two-Photon Photoelectron Spectroscopy of AuS^{â€“} via a Spin-Forbidden Excited State. Journal of Physical Chemistry Letters, 2015, 6, 637-642.	2.1	22
358	Conformation-selective resonant photoelectron imaging from dipole-bound states of cold 3-hydroxyphenoxide. Journal of Chemical Physics, 2017, 147, 013910.	1.2	22
359	B₃₁^{â¯} and B₃₂^{â¯}: chiral quasi-planar boron clusters. Nanoscale, 2019, 11, 9698-9704.	2.8	22
360	Coulomb- and Antiferromagnetic-Induced Fission in Doubly Charged Cubelike Fe-S Clusters. Physical Review Letters, 2002, 89, 163401.	2.9	21

#	Article	IF	Citations
361	First steps towards dissolution of NaSO4? by water. Physical Chemistry Chemical Physics, 2006, 8, 4294.	1.3	21
362	Vibrational spectra of Se2+ and Te2+ in their ground states. Chemical Physics Letters, 1989, 158, 297-300.	1.2	20
363	Probing the Electronic Structure of [MoOS4]-Centers Using Anionic Photoelectron Spectroscopy. Journal of the American Chemical Society, 2002, 124, 10182-10191.	6.6	20
364	Interior and Interfacial Aqueous Solvation of Benzene Dicarboxylate Dianions and Their Methylated Analogues:Â A Combined Molecular Dynamics and Photoelectron Spectroscopy Study. Journal of Physical Chemistry A, 2005, 109, 5042-5049.	1.1	20
365	Probing the interaction between the encapsulated water molecule and the fullerene cages in H₂O@C₆₀^{â^’} and H₂O@C₅₉N^{â^’}. Chemical Science, 2018, 9, 5666-5671.	3.7	20
366	ReB₆^{â€“}: A Metallaboron Analog of Metallabenzenes. Journal of the American Chemical Society, 2019, 141, 17854-17860.	6.6	20
367	Probing the Structure and Bonding in Al6N-and Al6N by Photoelectron Spectroscopy and Ab Initio Calculations. Journal of Physical Chemistry A, 2007, 111, 34-41.	1.1	19
368	Photoelectron Imaging of Doubly Charged Anions, â^’O2C(CH2)nCO2â^’ (n = 2â^’8): Observation of Near 0 eV Electrons Due to Secondary Dissociative Autodetachment. Journal of Physical Chemistry A, 2010, 114, 4524-4530.	1.1	19
369	Photoelectron spectroscopy and theoretical studies of UF5â^’ and UF6â^’. Journal of Chemical Physics, 2012, 136, 194304.	1.2	19
370	Photoelectron spectroscopy andab initiostudy of boron-carbon mixed clusters: CB9â^’and C2B8â^’. Journal of Chemical Physics, 2012, 137, 234306.	1.2	19
371	Catalyst design based on agostic interactions: synthesis, characterization, and catalytic activity of bis(pyrazolyl)borate copper complexes. Dalton Transactions, 2016, 45, 10194-10199.	1.6	19
372	TEMPERATURE EFFFECTS IN ANION PHOTOELECTRON SPECTROSCOPY OF METAL CLUSTERS. , 2000, , .		19
373	Photoelectron Spectroscopy of Transition Metal Clusters. Zeitschrift Fur Physikalische Chemie, 1998, 203, 45-55.	1.4	18
374	Microsolvation of the acetate anion [<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CH</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:m		

#	Article	IF	Citations
379	Probing the Structures of Neutral B11 and B12 Using High-Resolution Photoelectron Imaging of B11â€“ and B12â€“. Journal of Physical Chemistry C, 2017, 121, 10752-10759.	1.5	18
380	Halogen effects on the electronic and optical properties of Au₁₃ nanoclusters. Nanoscale Advances, 2020, 2, 4902-4907.	2.2	18
381	Photoelectron Spectroscopy of Size-Selected Bismuthâ€“Boron Clusters: BiB_n^{â€“} (n = 6â€“8). Journal of Physical Chemistry A, 2021, 125, 6751-6760.	1.1	18
382	Probing the Structural Evolution of Goldâ€“Aluminum Bimetallic Clusters (Au₂Al_n^{â€“}, n = 3â€“11) Using Photoelectron Spectroscopy and Theoretical Calculations. Journal of Physical Chemistry C, 2017, 121, 18234-18243.	1.5	18
383	Monovalent lanthanide(I) in borozene complexes. Nature Communications, 2021, 12, 6467.	5.8	18
384	Terminal Ligand Influence on the Electronic Structure and Intrinsic Redox Properties of the [Fe4S4]2+ Cubane Clusters. Inorganic Chemistry, 2004, 43, 3647-3655.	1.9	17
385	Microsolvation of the Dicyanamide Anion:â€‰ [N(CN)₂⁻](H₂O)_n (n = 0â^’12). Journal of Physical Chemistry A, 2007, 111, 7719-7725.	1.1	17
386	Photoelectron Spectroscopy of C₆₀F_n^{â^’} and C₆₀F_m^{2â^’} (n = 17, 33, 35, 43, 45, 47; m = 34, 46) in the Gas Phase and the Generation and Characterization of C₁-C₆₀F₄₇^{â^’} and D₂-C₆₀F₄₄ in Solution. Journal of Physical Chemistry A, 2010, 114, 1756-1765.	1.1	17
387	High resolution photoelectron imaging of UOâ^’ and UO2â^’ and the low-lying electronic states and vibrational frequencies of UO and UO2. Journal of Chemical Physics, 2014, 141, 244302.	1.2	17
388	Hollow Gold Cages and Their Topological Relationship to Dual Fullerenes. Chemistry - A European Journal, 2016, 22, 8823-8834.	1.7	17
389	Time-resolved photoelectron spectroscopy of a dinuclear Pt(II) complex: Tunneling autodetachment from both singlet and triplet excited states of a molecular dianion. Journal of Chemical Physics, 2016, 144, 054305.	1.2	17
390	Photoelectron Spectroscopy of BiAuâ€“ and BiBOâ€“: Further Evidence of the Analogy between Au and Boronyl. Journal of Physical Chemistry B, 2016, 120, 1635-1640.	1.2	17
391	Au₆₀^{â€“}: The Smallest Gold Cluster with the High-Symmetry Icosahedral Core Au₁₃. Journal of Physical Chemistry Letters, 2019, 10, 1820-1827.	2.1	17
392	Electronic Structure of the Hydroxo and Methoxo Oxometalate Anions MO3(OH)- and MO3(OCH3)- (M) Tj ETQq0 0 0 rgBT /Overlock 10	1.1	16
393	A Photoelectron Spectroscopic and Computational Study of Sodium Auride Clusters, NanAun-(n= 1â^’3). Journal of Physical Chemistry A, 2007, 111, 7555-7561.	1.1	16
394	On the electronic structure and conflicting d-orbital aromaticity in the Re3O3â^’ cluster. RSC Advances, 2012, 2, 2707.	1.7	16
395	Bond-bending isomerism of Au₂I₃^{â^’}: competition between covalent bonding and aurophilicity. Chemical Science, 2016, 7, 475-481.	3.7	16
396	Nb₂Â©Au₆: a molecular wheel with a short Nbî€‚Nb triple bond coordinated by an Au₆ ring and reinforced by Ïƒ aromaticity. Chemical Science, 2017, 8, 7528-7536.	3.7	16

#	Article	IF	Citations
397	Structural Evolution of Gold-Doped Bismuth Clusters AuBi_n^{â€“} (n = 4â€“8). Journal of Physical Chemistry C, 2018, 122, 6947-6954.	1.5	16
398	In Search of Covalently Bound Tetra- and Penta-Oxygen Species:Â A Photoelectron Spectroscopic and Ab Initio Investigation of MO4-and MO5-(M = Li, Na, K, Cs). Journal of the American Chemical Society, 2002, 124, 6742-6750.	6.6	15
399	High resolution and low-temperature photoelectron spectroscopy of an oxygen-linked fullerene dimer dianion: C120O2â^'. Journal of Chemical Physics, 2008, 128, 114307.	1.2	15
400	Probing the Electronic Stability of Multiply Charged Anions: Sulfonated Pyrene Tri- and Tetraanions. Journal of the American Chemical Society, 2009, 131, 9836-9842.	6.6	15
401	On the electronic structure of mono-rhenium oxide clusters: and ReOn (n=3,4). Chemical Physics Letters, 2011, 512, 49-53.	1.2	15
402	Probing the electronic structures of low oxidation-state uranium fluoride molecules UFxâ^' (x = 2â^'4). Journal of Chemical Physics, 2013, 139, 244303.	1.2	15
403	Photodetachment spectroscopy and resonant photoelectron imaging of cryogenically-cooled deprotonated 2-hydroxypyrimidine anions. Journal of Molecular Spectroscopy, 2017, 332, 86-93.	0.4	15
404	Polarization of Valence Orbitals by the Intramolecular Electric Field from a Diffuse Dipole-Bound Electron. Journal of Physical Chemistry Letters, 2020, 11, 7914-7919.	2.1	15
405	Expanded Inverse-Sandwich Complexes of Lanthanum Borides: La₂B₁₀^{â€“} and La₂B₁₁^{â€“}. Journal of Physical Chemistry A, 2021, 125, 2622-2630.	1.1	15
406	Electronic Structure and Intrinsic Redox Properties of [2Feâ^'2S]+Clusters with Tri- and Tetracoordinate Iron Sites. Inorganic Chemistry, 2005, 44, 1202-1204.	1.9	14
407	Probing the Electronic Structure of [2Fe-2S] Clusters with Three Coordinate Iron Sites by Use of Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2005, 109, 1815-1820.	1.1	14
408	Guiding Electron Emissions by Excess Negative Charges in Multiply Charged Molecular Anions. Physical Review Letters, 2010, 105, 263001.	2.9	14
409	Second-Order Nonlinear Optical Scattering Properties of Phosphine-Protected Au₂₀ Clusters. Industrial & Engineering Chemistry Research, 2016, 55, 10500-10506.	1.8	14
410	Probing the coupling of a dipole-bound electron with a molecular core. Chemical Science, 2019, 10, 1386-1391.	3.7	14
411	The nature of the chemical bonding in 5d transition-metal diatomic borides MB (M = Ir, Pt, Au). Journal of Chemical Physics, 2020, 152, 174301.	1.2	14
412	Photodetachment spectroscopy and resonant photoelectron imaging of cryogenically cooled 1-pyrenolate. Journal of Chemical Physics, 2021, 154, 094308.	1.2	14
413	Double Ïƒ-Aromaticity in a Planar Zinc-Doped Gold Cluster: Au₉Zn^{â€“}. Journal of Physical Chemistry A, 2021, 125, 4606-4613.	1.1	14
414	Probing the Nature of the Transition-Metal-Boron Bonds and Novel Aromaticity in Small Metal-Doped Boron Clusters Using Photoelectron Spectroscopy. Annual Review of Physical Chemistry, 2022, 73, 233-253.	4.8	14

#	Article	IF	Citations
415	Probing the electronic structure of small iron clusters. Chemical Physics Letters, 1995, 236, 57-63.	1.2	13
416	Photodetachment of the First Zwitterionic Anions in the Gas Phase:Â Probing Intramolecular Coulomb Repulsion and Attraction. Journal of the American Chemical Society, 2000, 122, 8305-8306.	6.6	13
417	PrB₇^{â˜}: A Praseodymiumâ€Doped Boron Cluster with a Pr^{II} Center Coordinated by a Doubly Aromatic Planar Î·⁷â€B₇^{3â˜} Ligand. Angewandte Chemie, 2017, 129, 7020-7024.	1.6	13
418	Probing the structures and bonding of auropolyynes, Auâ€”(Câ‰¡C)nâ€”Auâ˜ (n = 1â€“3), using high-resolution photoelectron imaging. Journal of Chemical Physics, 2018, 149, 144307.	1.2	13
419	Facile Synthesis of Unsolvated Alkali Metal Octahydrotriborate Salts MB 3 H 8 (M=K, Rb, and Cs), Mechanisms of Formation, and the Crystal Structure of KB 3 H 8. Angewandte Chemie, 2019, 131, 2746-2750.	1.6	13
420	MnB₆^{â€“}: An Open-Shell Metallaboron Analog of 3d Metallabenzenes. Journal of Physical Chemistry A, 2020, 124, 2820-2825.	1.1	13
421	Vibrationally resolved photoelectron spectroscopy of POâ˜3 and the electronic structure of PO3. Chemical Physics Letters, 1999, 313, 179-183.	1.2	12
422	Photodetachment of Zwitterions:â€‰ Probing Intramolecular Coulomb Repulsion and Attraction in the Gas Phase Using Mono-decarboxylated Pyridinium Dicarboxylates. Implications on the Mechanism of Orotidine 5â€˜-Monophosphate Decarboxylase. Journal of the American Chemical Society, 2003, 125, 6814-6826.	6.6	12
423	Sequential Oxidation of the Cubane [4Feâ˜4S] Cluster from [4Feâ˜4S]-to [4Feâ˜4S]3+in Fe4S4Ln-Complexes. Journal of the American Chemical Society, 2004, 126, 8413-8420.	6.6	12
424	Low-temperature Photoelectron Spectroscopy of Aliphatic Dicarboxylate Monoanions, HO2C(CH2)nCO2-(n= 1â˜10):Â Hydrogen Bond Induced Cyclization and Strain Energies. Journal of Physical Chemistry A, 2006, 110, 7801-7805.	1.1	12
425	Experimental and theoretical investigation of three-dimensional nitrogen-doped aluminum clusters Al8Nâ˜ and Al8N. Journal of Chemical Physics, 2009, 130, 134303.	1.2	12
426	Photoelectron Angular Distribution and Molecular Structure in Multiply Charged Anions. Journal of Physical Chemistry A, 2009, 113, 945-948.	1.1	12
427	High resolution photoelectron imaging of boron-bismuth binary clusters: Bi2Bnâ˜ (n =) Tj ETQq1 1 0.784314 rgBT /Ove	1.2	12
428	Probing the Dipole-Bound State in the 9-Phenanthrolate Anion by Photodetachment Spectroscopy, Resonant Two-Photon Photoelectron Imaging, and Resonant Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 2967-2976.	1.1	12
429	Recent Progress on the investigations of boron clusters and boron-based materials (I): borophene. Scientia Sinica Chimica, 2018, 48, 98-107.	0.2	12
430	High temperature and high resolution UV photoelectron spectroscopy using supersonic molecular beams. Journal of Electron Spectroscopy and Related Phenomena, 1990, 51, 513-526.	0.8	11
431	Observation of Triatomic Species with Conflicting Aromaticity:Â AlSi2-and AlGe2-. Journal of Physical Chemistry B, 2006, 110, 9743-9746.	1.2	11
432	Resonant photoelectron spectroscopy of Au2â˜ via a Feshbach state using high-resolution photoelectron imaging. Journal of Chemical Physics, 2013, 139, 194306.	1.2	11

#	Article	IF	Citations
433	Observation of a Symmetry-Forbidden Excited Quadrupole-Bound State. Journal of the American Chemical Society, 2020, 142, 20240-20246.	6.6	11
434	Photodetachment spectroscopy and resonant photoelectron imaging of the 2-naphthoxide anion via dipole-bound excited states. Journal of Chemical Physics, 2020, 152, 214307.	1.2	11
435	Transition-metal-like bonding behaviors of a boron atom in a boron-cluster boronyl complex [(Î·⁷-B₇)-B-BO]^{â^'}. Chemical Science, 2021, 12, 8157-8164.	3.7	11
436	High resolution photoelectron spectroscopy of clusters of group V elements. Physica Scripta, 1990, 41, 867-869.	1.2	10
437	Observation of a Remarkable Temperature Effect in the Hydrogen Bonding Structure and Dynamics of the CN^{â^'}(H₂O) Cluster. Journal of Physical Chemistry A, 2009, 113, 9579-9584.	1.1	10
438	Tautomerâ€Specific Resonant Photoelectron Imaging of Deprotonated Cytosine Anions. Angewandte Chemie - International Edition, 2019, 58, 7856-7860.	7.2	10
439	Electronic structure and photoelectron spectroscopy of AlSi mixed dimer. Journal of Chemical Physics, 1997, 107, 7667-7672.	1.2	9
440	A high-resolution photoelectron imaging and theoretical study of CPâ^' and C2Pâ^'. Journal of Chemical Physics, 2018, 148, 044301.	1.2	9
441	Determination of CO Adsorption Sites on Gold Clusters Au_n^{â€“} (n) Tj ETQq1 1 0.784314 rgB Chemistry Letters, 2018, 9, 5430-5439.	2.1	9
442	How O₂-Binding Affects Structural Evolution of Medium Even-Sized Gold Clusters Au_n^{â€“} (n = 20â€“34). Journal of Physical Chemistry Letters, 2021, 12, 3560-3570.	2.1	9
443	The synthesis and characterization of a new diphosphine-protected gold hydride nanocluster. Journal of Chemical Physics, 2021, 155, 034307.	1.2	9
444	Observation of a dipole-bound excited state in 4-ethynylphenoxide and comparison with the quadrupole-bound excited state in the isoelectronic 4-cyanophenoxide. Journal of Chemical Physics, 2021, 155, 124305.	1.2	9
445	Photoelectron Spectroscopy and Electronic Structures of Fullerene Oxides:â€‰ C60Ox- (x = 1â^'3). Journal of Physical Chemistry A, 2005, 109, 11089-11092.	1.1	8
446	Probing the electronic and vibrational structure of Au2Al2â^' and Au2Al2 using photoelectron spectroscopy and high resolution photoelectron imaging. Journal of Chemical Physics, 2014, 141, 224309.	1.2	8
447	High-resolution photoelectron imaging of MnB3â^': Probing the bonding between the aromatic B3 cluster and 3d transition metals. Journal of Chemical Physics, 2020, 152, 244306.	1.2	8
448	Observation of Core-Excited Dipole-Bound States. Journal of Physical Chemistry Letters, 2022, 13, 2124-2129.	2.1	8
449	Probing copper-boron interactions in the Cu2B8â^' bimetallic cluster. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	8
450	Electronic structure and fragmentation properties of [Fe4S4(SEt)4â^'x(SSEt)x]2â^'. International Journal of Mass Spectrometry, 2007, 263, 260-266.	0.7	7

#	Article	IF	Citations
451	Electronic Structure and Chemical Bonding of a Highly Stable and Aromatic Auroâ€“Aluminum Oxide Cluster. Journal of Physical Chemistry A, 2014, 118, 5204-5211.	1.1	7
452	High-Resolution Photoelectron Imaging of Cryogenically-Cooled C₅₉N^{â€“} and (C₅₉N)₂^{2â€“} Azafullerene Anions. Journal of Physical Chemistry Letters, 2017, 8, 6220-6225.	2.1	7
453	Observation of Transitionâ€Metalâ€“Boron Triple Bonds in IrB₂O^{â^’} and ReB₂O^{â^’}. Angewandte Chemie - International Edition, 2020, 59, 15260-15265.	7.2	7
454	The Synthesis, Bonding, and Transformation of a Ligandâ€Protected Gold Nanohydride Cluster. Angewandte Chemie, 2021, 133, 2454-2460.	1.6	7
455	Probing the electronic structure and spectroscopy of pyrrolyl and imidazolyl radicals using high-resolution photoelectron imaging of cryogenically cooled anions. Physical Chemistry Chemical Physics, 2022, 24, 6505-6514.	1.3	7
456	â€œNapoleon Hatâ€•Structure of Tetraatomic Molecules. A Combined Photoelectron Spectroscopy and Ab Initio Study of CAlSi2- and Its Neutral. Journal of Physical Chemistry A, 2000, 104, 5358-5365.	1.1	6
457	AuB₈^{â^’}: an Auâ€“borozene complex. Chemical Communications, 2022, 58, 3134-3137.	2.2	6
458	PHOTODETACHMENT PHOTOELECTRON SPECTROSCOPY OF TRANSITION METAL OXIDE SPECIES. Advanced Series in Physical Chemistry, 2000, , 854-957.	1.5	5
459	Photoelectron Spectroscopy of Palladium(I) Dimers with Bridging Allyl Ligands. Organometallics, 2012, 31, 8571-8576.	1.1	5
460	Bismuthâ€“Boron Multiple Bonding in BiB 2 O â^’ and Bi 2 B â^’. Angewandte Chemie, 2017, 129, 9679-9683.	1.6	5
461	Probing the electronic structure of the CoB16â^’ drum complex: Unusual oxidation state of Coâ^’1. Chinese Journal of Chemical Physics, 2019, 32, 241-247.	0.6	5
462	Highâ€Resolution Photoelectron Imaging of IrB 3 â^’ : Observation of a Ï€â€Aromatic B 3 + Ring Coordinated to a Transition Metal. Angewandte Chemie, 2019, 131, 8969-8973.	1.6	5
463	Resonant two-photon photoelectron imaging and adiabatic detachment processes from bound vibrational levels of dipole-bound states. Physical Chemistry Chemical Physics, 2022, 24, 1380-1389.	1.3	5
464	A combined photoelectron spectroscopy and relativistic ab initio studies of the electronic structures of UFO and UFOâ^’. Journal of Chemical Physics, 2016, 144, 084309.	1.2	4
465	Boron-lead multiple bonds in the PbB2Oâ€“ and PbB3O2â€“ clusters. Communications Chemistry, 2022, 5, .	2.0	4
466	Au20: A Tetrahedral Cluster.. ChemInform, 2003, 34, no.	0.1	3
467	Probing the Electronic Structure of Feï£¿S Clusters: Ubiquitous Electron Transfer Centers in Metalloproteins Using Anion Photoelectron Spectroscopy in the Gas Phase. , 2006, , 63-117.		3
468	Di-niobium gold clusters: Multiply-bonded Nb2 dimer coordinated equatorially by Au atoms. International Journal of Mass Spectrometry, 2018, 434, 7-16.	0.7	3

#	Article	IF	Citations
469	High-Resolution Photoelectron Imaging and Photodetachment Spectroscopy of Cryogenically Cooled IO^{â€“}. Journal of Physical Chemistry A, 2020, 124, 5720-5726.	1.1	3
470	JCP Emerging Investigator Special Collection 2019. Journal of Chemical Physics, 2020, 153, 110402.	1.2	2
471	Frontispiz: The Planar CoB₁₈^{â^’} Cluster as a Motif for Metalloâ€Borophenes. Angewandte Chemie, 2016, 128, .	1.6	1
472	2020 JCP Emerging Investigator Special Collection. Journal of Chemical Physics, 2021, 155, 230401.	1.2	1
473	From helical nanowires, nanocrosses to aligned micro-carbon fibers. Materials Research Society Symposia Proceedings, 2003, 776, 721.	0.1	0
474	Frontispiece: The Planar CoB₁₈^{â^’} Cluster as a Motif for Metalloâ€Borophenes. Angewandte Chemie - International Edition, 2016, 55, .	7.2	0
475	Hollow Gold Cages and Their Topological Relationship to Dual Fullerenes. Chemistry - A European Journal, 2016, 22, 8709-8709.	1.7	0
476	Preface to the Special Issue â€œISSPIC XIX: International Symposium on Small Particles and Inorganic Clusters 2018â€. Chinese Journal of Chemical Physics, 2019, 32, i-i.	0.6	0
477	Double- and multi-slit interference in photodetachment from nanometer organic molecular anions. Journal of Chemical Physics, 2019, 150, 244302.	1.2	0
478	Tautomerâ€Specific Resonant Photoelectron Imaging of Deprotonated Cytosine Anions. Angewandte Chemie, 2019, 131, 7938-7942.	1.6	0
479	Observation of Ï€-Backbonding in a Boronyl-Coordinated Transition Metal Complex TaBO^{â€“}. Journal of Physical Chemistry A, 2020, 124, 10001-10007.	1.1	0
480	Observation of Transitionâ€Metalâ€“Boron Triple Bonds in IrB 2 O â^’ and ReB 2 O â^’. Angewandte Chemie, 2020, 132, 15372-15377.	1.6	0