

# Han-Shi Hu

## List of Publications by Citations

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68

papers

3,261

citations

26

h-index

57

g-index

73

ext. papers

3,802

ext. citations

8.7

avg, IF

5.15

L-index

#	Paper	IF	Citations
68	Observation of an all-boron fullerene. <i>Nature Chemistry</i> , <b>2014</b> , 6, 727-31	17.6	590
67	Planar hexagonal B(36) as a potential basis for extended single-atom layer boron sheets. <i>Nature Communications</i> , <b>2014</b> , 5, 3113	17.4	503
66	Ultrathin rhodium nanosheets. <i>Nature Communications</i> , <b>2014</b> , 5, 3093	17.4	350
65	The B35 cluster with a double-hexagonal vacancy: a new and more flexible structural motif for borophene. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12257-60	16.4	250
64	Experimental and theoretical evidence of an axially chiral borospherene. <i>ACS Nano</i> , <b>2015</b> , 9, 754-60	16.7	195
63	[B <sub>11</sub> ] <sup>+</sup> : a quasiplanar chiral boron cluster. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 5540-5	16.4	116
62	High Uptake of ReO and CO Conversion by a Radiation-Resistant Thorium-Nickel [Th Ni] Nanocage-Based Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6022-6027	16.4	77
61	Formation of unprecedented actinide triple bond carbon in uranium methyldiyne molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 18919-24	11.5	74
60	A multicentre-bonded [Zn(II)] <sub>8</sub> cluster with cubic aromaticity. <i>Nature Communications</i> , <b>2015</b> , 6, 6331	17.4	73
59	Infrared spectra and electronic structures of agostic uranium methyldiene molecules. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 1435-42	5.1	49
58	Modeling Excited States in TiO Nanoparticles: On the Accuracy of a TD-DFT Based Description. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 1189-1199	6.4	48
57	Atomically Dispersed Pt-NC Sites Enabling Efficient and Selective Electrocatalytic C-C Bond Cleavage in Lignin Models under Ambient Conditions. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 9429-9439	16.4	43
56	On the maximum bond multiplicity of carbon: unusual C <sub>2</sub> U quadruple bonding in molecular CUO. <i>Chemical Science</i> , <b>2012</b> , 3, 2786	9.4	41
55	Actinide-silicon multiradical bonding: infrared spectra and electronic structures of the Si(X)AnF <sub>3</sub> (An = Th, U; X = H, F) molecules. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1427-37	16.4	37
54	Chirality, agostic interactions, and pyramidalicity in actinide methyldiene complexes. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 9045-9	16.4	37
53	Metal-Organic Frameworks (MOFs) of a Cubic Metal Cluster with Multicentered Mn(II)-Mn(II) Bonds. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11681-5	16.4	36
52	Theoretical investigations on the formation and dehydrogenation reaction pathways of H(NH <sub>2</sub> BH <sub>2</sub> )(n)H (n = 1-4) oligomers: importance of dihydrogen interactions. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7710-20	5.1	36

51	Theoretical investigations of geometry, electronic structure and stability of UO(6): octahedral uranium hexoxide and its isomers. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 8837-44	2.8	36
50	Relativistic Effects Break Periodicity in Group 6 Diatomic Molecules. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 1126-9	16.4	31
49	Experimental and theoretical studies on the fragmentation of gas-phase uranyl-, neptunyl-, and plutonyl-diglycolamide complexes. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 10544-50	2.8	31
48	A tetrapositive metal ion in the gas phase: thorium(IV) coordinated by neutral tridentate ligands. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6885-8	16.4	30
47	Describing Excited State Relaxation and Localization in TiO <sub>2</sub> Nanoparticles Using TD-DFT. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 5538-48	6.4	29
46	[B30] Quasiplanar Chiral Boron Cluster. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 5646-5651	3.6	28
45	An Ultrastable Matryoshka [Hf] Nanocluster as a Luminescent Sensor for Concentrated Alkali and Acid. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16610-16616	16.4	26
44	Quadruple bonding between iron and boron in the BFe(CO) complex. <i>Nature Communications</i> , <b>2019</b> , 10, 4713	17.4	26
43	Matrix infrared spectroscopic and computational investigations of the lanthanide-methylene complexes CH <sub>2</sub> LnF <sub>2</sub> with single Ln-C bonds. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 1913-21	2.8	26
42	Chemisorption-Induced 2D Structural Transitions in Gold Heptamer: (CO) <sub>n</sub> Au <sub>7</sub> (n = 1-7). <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2288-2293	6.4	26
41	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> , <b>2020</b> , 117, 15423-15428	11.5	24
40	Strong electron correlation in UO <sub>2</sub> (-): a photoelectron spectroscopy and relativistic quantum chemistry study. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 094306	3.9	23
39	Lanthanides with Unusually Low Oxidation States in the PrB and PrB Boride Clusters. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 411-418	5.1	23
38	The shortest Th-Th distance from a new type of quadruple bond. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 5070-5076	3.6	22
37	Infrared Spectroscopy of Neutral Water Dimer Based on a Tunable Vacuum Ultraviolet Free Electron Laser. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 851-855	6.4	22
36	Infrared and DFT investigations of the XC[triple bond]ReX <sub>3</sub> and HC[triple bond]ReX <sub>3</sub> complexes: Jahn-Teller distortion and the methylidyne C-X(H) stretching absorptions. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 8728-38	5.1	20
35	Triple Bonds Between Iron and Heavier Group 15 Elements in AFe(CO) (A=As, Sb, Bi) Complexes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 542-546	16.4	20
34	Infrared multiphoton dissociation spectroscopy of a gas-phase complex of uranyl and 3-oxa-glutaramide: an extreme red-shift of the [O?U?O](2+) asymmetric stretch. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 3366-74	2.8	18

33	Understanding the Uniqueness of 2p Elements in Periodic Tables. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 15558-15564	4.8	17
32	Stable Zn -Containing MOFs with Large [Zn ] Nanocages from Assembly of Zn Ions and Aromatic [Zn ] Clusters. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 3683-3688	4.8	16
31	Infrared spectroscopic study of hydrogen bonding topologies in the smallest ice cube. <i>Nature Communications</i> , <b>2020</b> , 11, 5449	17.4	15
30	Construction of Dual-Active-Site Copper Catalyst Containing both Cu <sup>+</sup> N and Cu <sup>0</sup> N Sites. <i>Small</i> , <b>2021</b> , 17, e2006834	11	14
29	Triple bonds between iron and heavier group-14 elements in the AFe(CO) complexes (A = Ge, Sn, and Pb). <i>Chemical Communications</i> , <b>2019</b> , 55, 5685-5688	5.8	13
28	Probing the electronic structures of low oxidation-state uranium fluoride molecules UF(x)- (x = 2-4). <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 244303	3.9	13
27	CoO-metalloxocubes: a new class of perovskite-like neutral clusters with cubic aromaticity. <i>National Science Review</i> , <b>2021</b> , 8, nwaa201	10.8	13
26	Relativity-Induced Bonding Pattern Change in Coinage Metal Dimers M (M = Cu, Ag, Au, Rg). <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 5499-5506	5.1	10
25	Theoretical studies of the global minima and polarizabilities of small lithium clusters. <i>Chemical Physics Letters</i> , <b>2016</b> , 644, 235-242	2.5	10
24	Recent Progress on the investigations of boron clusters and boron-based materials (I): borophene. <i>Scientia Sinica Chimica</i> , <b>2018</b> , 48, 98-107	1.6	10
23	Physical origin of chemical periodicities in the system of elements. <i>Pure and Applied Chemistry</i> , <b>2019</b> , 91, 1969-1999	2.1	10
22	The df-d Dative Bonding in a Uranium-Cobalt Heterobimetallic Complex for Efficient Nitrogen Fixation. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 7433-7439	5.1	9
21	2-Butene Tetraanion Bridged Dinuclear Samarium(III) Complexes via Sm(II)-Mediated Reduction of Electron-Rich Olefins. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 10705-10714	16.4	9
20	Formation and Characterization of a BeOBeC Multiple Radical Featuring a Quartet Carbyne Moiety. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6923-6928	16.4	9
19	Toward enabling large-scale open-shell equation-of-motion coupled cluster calculations: triplet states of $\beta$ -carotene. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 9087-93	2.8	9
18	Metal-Organic Frameworks (MOFs) of a Cubic Metal Cluster with Multicentered Mn <sup>II</sup> Mn <sup>I</sup> Bonds. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11847-11851	3.6	9
17	Chirality, Agostic Interactions, and Pyramidality in Actinide Methylidene Complexes. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 9203-9207	3.6	9
16	Multiple Bonding Between Group 3 Metals and Fe(CO). <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 2344-2348	16.4	9

15	Distinct electronic structures and bonding interactions in inverse-sandwich samarium and ytterbium biphenyl complexes. <i>Chemical Science</i> , <b>2020</b> , 12, 227-238	9.4	6
14	Post Hartree-Fock calculations of pnictogen-uranium bonding in EUF (E = N-Bi). <i>Chemical Communications</i> , <b>2018</b> , 54, 11100-11103	5.8	5
13	High Spin Ground States in Matryoshka Actinide Nanoclusters: A Computational Study. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 347-350	4.8	4
12	An Ultrastable Matryoshka [Hf <sub>13</sub> ] Nanocluster as a Luminescent Sensor for Concentrated Alkali and Acid. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16763-16769	3.6	4
11	Wet carbonate-promoted radical arylation of vinyl pinacolboronates with diaryliodonium salts yields substituted olefins. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	4
10	Formation and Characterization of BeFe(CO) Anion with Beryllium-Iron Bonding. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9334-9338	16.4	4
9	Norm-Conserving Pseudopotentials and Basis Sets to Explore Actinide Chemistry in Complex Environments. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 3360-3371	6.4	4
8	Probing the electronic structure of the CoB <sub>16</sub> drum complex: Unusual oxidation state of Co <sup>III</sup> <i>Chinese Journal of Chemical Physics</i> , <b>2019</b> , 32, 241-247	0.9	3
7	Infrared spectroscopic signature of the structural diversity of the water heptamer. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100748	6.1	3
6	Excitation Energies with Cost-Reduced Variant of the Active-Space EOMCCSDT Method: The EOMCCSDt-3 Approach. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 4761-8	6.4	2
5	Ligands enhanced the Ac[triple bond, length as m-dash]Ac triple bond. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 10244-10250	3.6	1
4	Computational Prediction of Graphdiyne-Supported Three-Atom Single-Cluster Catalysts. <i>CCS Chemistry</i> , 1-24	7.2	1
3	Multiple Bonding Between Group 3 Metals and Fe(CO) <sub>3</sub> . <i>Angewandte Chemie</i> , <b>2020</b> , 132, 2364-2368	3.6	0
2	Formation and Characterization of BeFe(CO) <sub>4</sub> Anion with Beryllium-Iron Bonding. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9420-9424	3.6	0
1	A Tetrapositive Metal Ion in the Gas Phase: Thorium(IV) Coordinated by Neutral Tridentate Ligands. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 7023-7026	3.6	