Zhong-Hua Cui

List of Publications by Year
in descending order

51	1,279	394421	377865
papers	citations	19 h-index	34 g-index

51	51	51	987
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rotational Barrier in Phenalenyl Neutral Radical Dimer: Separating Pancake and van der Waals Interactions. Journal of the American Chemical Society, 2014, 136, 5539-5542.	13.7	120
2	Planar Tetracoordinate Carbon versus Planar Tetracoordinate Boron: The Case of CB₄ and Its Cation. Journal of the American Chemical Society, 2011, 133, 13228-13231.	13.7	99
3	Multifunctional Luminescent Porous Organic Polymer for Selectively Detecting Iron Ions and 1,4-Dioxane via Luminescent Turn-off and Turn-on Sensing. ACS Applied Materials & Interfaces, 2016, 8, 24097-24103.	8.0	78
4	Double Pancake Bonds: Pushing the Limits of Strong Ï€â€“Ï€ Stacking Interactions. Journal of the American Chemical Society, 2014, 136, 12958-12965.	13.7	74
5	Li₂B₁₂ and Li₃B₁₂: Prediction of the Smallest Tubular and Cageâ€like Boron Structures. Angewandte Chemie - International Edition, 2018, 57, 4627-4631.	13.8	73
6	Unusually Short Beâ”Be Distances with and without a Bond in Be₂F₂ and in the Molecular Discuses Be₂B₈ and Be₂B₇^{â”}. Angewandte Chemie - International Edition, 2016, 55, 7841-7846.	13.8	60
7	Planar tetracoordinate carbons with a double bond in CAl₃E clusters. Physical Chemistry Chemical Physics, 2015, 17, 8769-8775.	2.8	57
8	Planar pentacoordinate carbon atoms embedded in a metallocene framework. Chemical Communications, 2017, 53, 138-141.	4.1	56
9	Li₂B₂₄: the simplest combination for a three-ring boron tube. Nanoscale, 2019, 11, 2143-2147.	5.6	52
10	Study of the Diradicaloid Character in a Prototypical Pancakeâ€Bonded Dimer: The Stacked Tetracyanoethylene (TCNE) Anion Dimer and the Neutral K₂TCNE₂ Complex. ChemPhysChem, 2014, 15, 165-176.	2.1	43
11	Concave or convex Ï€-dimers: the role of the pancake bond in substituted phenalenyl radical dimers. Physical Chemistry Chemical Physics, 2015, 17, 23963-23969.	2.8	40
12	Pentaatomic planar tetracoordinate carbon molecules [XCAl3]q [(X,q) = (B,â”2), (C,â”1), (N,0)] with Câ€“X multiple bonding. Physical Chemistry Chemical Physics, 2010, 12, 13637.	2.8	39
13	Luminescent covalent organic framework as a recyclable turn-off fluorescent sensor for cations and anions in aqueous solution. Journal of Materials Chemistry C, 2019, 7, 11919-11925.	5.5	35
14	Unusually Short Beâ”Be Distances with and without a Bond in Be₂F₂ and in the Molecular Discuses Be₂B₈ and Be₂B₇^{â”}. Angewandte Chemie, 2016, 128, 7972-7977.	2.0	34
15	Lithium doped tubular structure in LiB₂₀ and LiB₂₀^{â”}: a viable global minimum. Physical Chemistry Chemical Physics, 2018, 20, 16202-16208.	2.8	32
16	Multi-layer 3D chirality: new synthesis, AIE and computational studies. Science China Chemistry, 2020, 63, 692-698.	8.2	27
17	NXAl3+ (X = N, P, As): penta-atomic planar tetracoordinate nitrogen with Nâ€“X multiple bonding. Physical Chemistry Chemical Physics, 2011, 13, 5960.	2.8	26
18	Planar tetracoordinate fluorine atoms. Chemical Science, 2021, 12, 6699-6704.	7.4	25

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19	B10M2 (M = Rh, Ir): finally a stable boron-based icosahedral cluster. Chemical Communications, 2019, 55, 7490-7493.	4.1	22
20	Structure and bonding of molecular stirrers with formula B₇M₂^{â^'} and B₈M₂ (M = Zn, Cd, Hg). Physical Chemistry Chemical Physics, 2020, 22, 12312-12320.	2.8	20
21	Analysis of charge transfer transitions in stacked Ï€-electron donorâ€“acceptor complexes. Physical Chemistry Chemical Physics, 2018, 20, 26957-26967.	2.8	19
22	Stable global tubular boron clusters in Na₂B₁₈ and Na₂B₁₈^{â^'}. RSC Advances, 2019, 9, 4665-4670.	3.6	18
23	Structural and electronic properties of MB₂₂^{â^'} (M = Na, K) clusters: tubular boron versus quasi-planar boron forms. New Journal of Chemistry, 2019, 43, 6507-6512.	2.8	17
24	Planar pentacoordinate silicon and germanium atoms. Chemical Communications, 2020, 56, 13772-13775.	4.1	17
25	Structural effects of alkali-metals on the B₁₂ skeleton. Physical Chemistry Chemical Physics, 2020, 22, 17344-17350.	2.8	17
26	Ïƒ-Aromaticity Planar Pentacoordinate Beryllium Atoms. Inorganic Chemistry, 2021, 60, 16053-16058.	4.0	16
27	Avoided spin coupling: an unexpected Ïƒâ€“Ïƒ diradical in global planar pentacoordinate carbon. Chemical Communications, 2020, 56, 7285-7288.	4.1	15
28	Unexpected Charge Effects Strengthen Ï€â€“Stacking Pancake Bonding. Jacs Au, 2021, 1, 1647-1655.	7.9	15
29	Planar hexacoordinate gallium. Chemical Science, 2021, 12, 15067-15076.	7.4	15
30	Structural and energetic exploration of a boronâ€rich sulfide cluster B₆S. International Journal of Quantum Chemistry, 2012, 112, 1299-1306.	2.0	14
31	Nonadiabatic Dynamics of Charge-Transfer States Using the Anthraceneâ€“Tetracyanoethylene Complex as a Prototype. Journal of Physical Chemistry A, 2020, 124, 3347-3357.	2.5	13
32	Bare and ligand protected planar hexacoordinate silicon in SiSb₃M₃⁺ (M = Ca, Sr, Ba) clusters. Chemical Science, 2022, 13, 8045-8051.	7.4	13
33	Planar Tetracoordinate Carbons in Allene-Type Structures. Journal of Physical Chemistry A, 2021, 125, 3009-3014.	2.5	12
34	How can carbon favor planar multi-coordination in boron-based clusters? Global structures of CB_xE_y^{2â^'}(E = Al, Ga, x + y = 4). Physical Chemistry Chemical Physics, 2015, 17, 32016-32022.	2.8	11
35	Computational identification of a global carbonâ€“sulfur triply bonded isomer SCBO. Structural Chemistry, 2013, 24, 263-270.	2.0	10
36	Structures, energetics, and isomerism of [Be,C,O,S]: Stability of triply bonded sulfur. International Journal of Quantum Chemistry, 2013, 113, 2213-2219.	2.0	10

#	Article	IF	Citations
37	Li2 B12 and Li3 B12 : Prediction of the Smallest Tubular and Cage-like Boron Structures. Angewandte Chemie, 2018, 130, 4717-4721.	2.0	8
38	Bonding situations in tricoordinated beryllium phenyl complexes. Journal of Computational Chemistry, 2023, 44, 397-405.	3.3	7
39	Inverse sandwich complexes of B₇M₂^{â^'}, B₈M₂, and B₉M₂⁺ (M = Zr, Hf): the nonclassical Mâ€“M bonds embedded in monocyclic boron rings. New Journal of Chemistry, 2020, 44, 17705-17713.	2.8	6
40	Bottom-up substitution assembly of AuF_{4â^'}_n^{0,â^'}+nPO₃ (n = 1â€“4): a theoretical study of novel oxyfluoride hyperhalogen molecules and anions AuF_{4â^'}_n(PO₃)_n^{0,â^'}. Molecular Physics, 2014, 112, 1589-1599.	1.7	4
41	Structures and electron affinity of XO₃^{0,â^'}, XOF₄^{0,â^'} and XO₂F₂^{0,â^'} (X = P, As, Sb, Bi): a theoretical study of novel superhalogen formulae and exceptions of superhalogen formulae. Molecular Physics, 2015, 113, 640-646.	1.7	3
42	Metallocene: multi-layered molecular rotors. Dalton Transactions, 2021, 50, 14156-14162.	3.3	2
43	Linear group 13 Eî€,E triple bonds. Physical Chemistry Chemical Physics, 2021, 23, 11611-11615.	2.8	2
44	OsB9â^': An Aromatic Osmium-Centered Monocyclic Boron Ring. Frontiers in Chemistry, 2021, 9, 751482.	3.6	1
45	Tuning structural preference of negatively charged B16 by ionically or covalently interacting with alkali and coinage metals. Chemical Physics, 2021, 550, 111315.	1.9	1
46	Twoâ€layer molecular rotors: A zinc dimer rotating over planar hypercoordinate motifs. Journal of Computational Chemistry, 2022, , .	3.3	1
47	Can isocyanogen azide exist?. Molecular Physics, 2011, 109, 589-601.	1.7	0
48	Understanding the oxidation of the tricarbon radical C₃ H: A reaction pathway survey. International Journal of Quantum Chemistry, 2013, 113, 2506-2513.	2.0	0
49	Globally stabilized bent carbonâ€“carbon triple bond by hydrogen-free inorganicâ€“metallic scaffolding Al4F6. RSC Advances, 2020, 10, 25275-25280.	3.6	0
50	Eî€,E triple bonds (E = Group 13) promoted by charge transfer from alkali metals. New Journal of Chemistry, 0, , .	2.8	0
51	Linear Group 13 Eâ‰¡E Triple Bonds in E 2 Li 6 2+. ChemPhysChem, 2021, 22, 1996-2003.	2.1	0