

Zheng Wei

List of Publications by Year in descending order

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87
papers

1,473
citations

304743

22
h-index

395702

33
g-index

90
all docs

90
docs citations

90
times ranked

1354
citing authors

#	ARTICLE	IF	CITATIONS
1	Iodobismuthates Containing One-Dimensional Bil ₄ ⁴⁻ Anions as Prospective Light-Harvesting Materials: Synthesis, Crystal and Electronic Structure, and Optical Properties. <i>Inorganic Chemistry</i> , 2016, 55, 4132-4140.	4.0	81
2	Synthesis of the Unknown Indeno[1,2-a]fluorene Regioisomer: Crystallographic Characterization of Its Dianion. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15363-15367.	13.8	81
3	Role of I ₂ Molecules and Weak Interactions in Supramolecular Assembling of Pseudo-Three-Dimensional Hybrid Bismuth Polyiodides: Synthesis, Structure, and Optical Properties of Phenylenediammonium Polyiodobismuthate(III). <i>Crystal Growth and Design</i> , 2018, 18, 2572-2578.	3.0	68
4	A Biradical Balancing Act: Redox Amphoterism in a Diindenoanthracene Derivative Results from Quinoidal Acceptor and Aromatic Donor Motifs. <i>Journal of the American Chemical Society</i> , 2016, 138, 12648-12654.	13.7	52
5	Highly strained [6]cycloparaphenylene: crystallization of an unsolvated polymorph and the first mono- and dianions. <i>Chemical Communications</i> , 2018, 54, 7818-7821.	4.1	48
6	Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2582-2587.	13.8	47
7	Charging a Negatively Curved Nanographene and Its Covalent Network. <i>Journal of the American Chemical Society</i> , 2021, 143, 5231-5238.	13.7	42
8	Convex and Concave Encapsulation of Multiple Potassium Ions by Sumanenyl Anions. <i>Journal of the American Chemical Society</i> , 2015, 137, 9768-9771.	13.7	41
9	Volatile Heterometallic Precursors for the Low-Temperature Synthesis of Prospective Sodium Ion Battery Cathode Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 12216-12219.	13.7	40
10	Synthesis of functionalized pyrroloindolines via a visible-light-induced radical cascade reaction: rapid synthesis of (±)-flustraminol B. <i>Chemical Communications</i> , 2018, 54, 7443-7446.	4.1	39
11	Charging OBO-Fused Double [5]Helicene with Electrons. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14969-14973.	13.8	38
12	Fusing a Planar Group to a Bowl: Electronic and Molecular Structure, Aromaticity and Solid-State Packing of Naphthocorannulene and its Anions. <i>Chemistry - A European Journal</i> , 2018, 24, 3455-3463.	3.3	35
13	Stepwise Reduction of Azapentabenzocorannulene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12107-12111.	13.8	35
14	Volatile Single-Source Precursors for the Low-Temperature Preparation of Sodium-Rare Earth Metal Fluorides. <i>Journal of the American Chemical Society</i> , 2016, 138, 8883-8887.	13.7	33
15	Negative Charge as a Lens for Concentrating Antiaromaticity: Using a Pentagonal Defect and Helicene Strain for Cyclizations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1256-1262.	13.8	32
16	Assembling Polyiodides and Iodobismuthates Using a Template Effect of a Cyclic Diammonium Cation and Formation of a Low-Gap Hybrid Iodobismuthate with High Thermal Stability. <i>Molecules</i> , 2020, 25, 2765.	3.8	31
17	Changing the bridging connectivity pattern within a heterometallic assembly: design of single-source precursors with discrete molecular structures. <i>Chemical Science</i> , 2014, 5, 813-818.	7.4	30
18	Synthesis of the Unknown Indeno[1,2-a]fluorene Regioisomer: Crystallographic Characterization of Its Dianion. <i>Angewandte Chemie</i> , 2017, 129, 15565-15569.	2.0	29

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19	Crystal Growth of the Nowotny Chimney Ladder Phase Fe ₂ Ge ₃ : Exploring New Fe-Based Narrow-Gap Semiconductor with Promising Thermoelectric Performance. <i>Chemistry of Materials</i> , 2017, 29, 9954-9963.	6.7	27
20	From Corannulene to Indacenopicene: Effect of Carbon Framework Topology on Aromaticity and Reduction Limits. <i>Organometallics</i> , 2016, 35, 3105-3111.	2.3	24
21	Structural deformation and host-guest properties of doubly-reduced cycloparaphenylenes, [n]CPPs ²⁺ (n = 6, 8, 10, and 12). <i>Chemical Science</i> , 2020, 11, 9395-9401.	7.4	24
22	Heterometallic molecular precursors for a lithium-iron oxide material: synthesis, solid state structure, solution and gas-phase behaviour, and thermal decomposition. <i>Dalton Transactions</i> , 2017, 46, 5644-5649.	3.3	23
23	Mixed-valent, heteroleptic homometallic diketonates as templates for the design of volatile heterometallic precursors. <i>Chemical Science</i> , 2015, 6, 2835-2842.	7.4	22
24	Structural and Electronic Effects of Stepwise Reduction of a Tetraaryl[3]Cumulene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2023-2028.	13.8	22
25	Tertiary Hierarchical Complexity in Assemblies of Sulfur-Bridged Metal Chiral Clusters. <i>Journal of the American Chemical Society</i> , 2020, 142, 14495-14503.	13.7	22
26	Compressing Double [7]Helicene by Successive Charging with Electrons. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15923-15927.	13.8	21
27	Two-Fold Reduction of Dibenzo[a,e]cyclooctatetraene with Group 1 Metals: From Lithium to Cesium. <i>Organometallics</i> , 2020, 39, 4688-4695.	2.3	20
28	Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie</i> , 2017, 129, 2626-2631.	2.0	18
29	Mixed-Ligand Approach to Changing the Metal Ratio in Bismuth-Transition Metal Heterometallic Precursors. <i>Inorganic Chemistry</i> , 2016, 55, 3946-3951.	4.0	17
30	Reduction of Expanded Cyclooctatetraene with Lithium: Stabilization of the Tetraanion through Internal Li ⁺ Coordination. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3510-3514.	13.8	17
31	A three body problem: a genuine heterotri-metallic molecule vs. a mixture of two parent heterobimetallic molecules. <i>Chemical Science</i> , 2018, 9, 4736-4745.	7.4	16
32	Structural and Electronic Effects of Stepwise Reduction of a Tetraaryl[3]Cumulene. <i>Angewandte Chemie</i> , 2019, 131, 2045-2050.	2.0	15
33	Localized Antiaromaticity Hotspot Drives Reductive Dehydrogenative Cyclizations in Bis- and Mono-Helicenes. <i>Journal of the American Chemical Society</i> , 2022, 144, 12321-12338.	13.7	15
34	Stepwise Reduction of Azapentabenzocorannulene. <i>Angewandte Chemie</i> , 2019, 131, 12235-12239.	2.0	14
35	Heterotri-metallic Precursor with 2:2:1 Metal Ratio Requiring at Least a Pentanuclear Molecular Assembly. <i>Journal of the American Chemical Society</i> , 2020, 142, 12767-12776.	13.7	14
36	Site-Specific Reduction-Induced Hydrogenation of a Helical Bilayer Nanographene with K and Rb Metals: Electron Multiaddition and Selective Rb ⁺ Complexation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14

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37	Endohedral Cluster Superconductors in the Mo ₄ Ga ₂₁ Sn System Explored by the Joint Flux Technique. <i>Inorganic Chemistry</i> , 2019, 58, 15552-15561.	4.0	13
38	Crystal Growth of Intermetallics from the Joint Flux: Exploratory Synthesis through the Control of Valence Electron Count. <i>Inorganic Chemistry</i> , 2019, 58, 1561-1570.	4.0	13
39	Position Assignment and Oxidation State Recognition of Fe and Co Centers in Heterometallic Mixed-Valent Molecular Precursors for the Low-Temperature Preparation of Target Spinel Oxide Materials. <i>Inorganic Chemistry</i> , 2017, 56, 9574-9584.	4.0	12
40	Charging of Fused Double [5]Helicene with Electrons. <i>Angewandte Chemie</i> , 2019, 131, 15111-15115.	2.0	12
41	Negative Charge as a Lens for Concentrating Antiaromaticity: Using a Pentagonal Defect and Helicene Strain for Cyclizations. <i>Angewandte Chemie</i> , 2020, 132, 1272-1278.	2.0	12
42	Stepwise Generation of Mono-, Di-, and Triply-Reduced Warped Nanographenes: Charge-Dependent Aromaticity, Surface Nonequivalence, Swing Distortion, and Metal Binding Sites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25445-25453.	13.8	12
43	Mixing Li and Cs in the reduction of corannulene for the assembly of a cesium-capped sandwich with a hexanuclear heterometallic core. <i>Dalton Transactions</i> , 2017, 46, 5625-5630.	3.3	11
44	Three to tango requires a site-specific substitution: heterotrimetallic molecular precursors for high-voltage rechargeable batteries. <i>Chemical Science</i> , 2019, 10, 524-534.	7.4	11
45	Placing Metal in the Bowl: Does Rim Alkylation Matter?. <i>Organometallics</i> , 2019, 38, 552-566.	2.3	11
46	Dimerization of indenocorannulene radicals: imposing stability through increasing strain and curvature. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3591-3598.	4.5	11
47	Family of Mo ₄ Ga ₂₁ -Based Superconductors. <i>Chemistry of Materials</i> , 2020, 32, 6730-6735.	6.7	11
48	Synthesis and supramolecular organization of the iodide and triiodides of a polycyclic adamantane-based diammonium cation: the effects of hydrogen bonds and weak I ⁻ ⋯I interactions. <i>CrystEngComm</i> , 2021, 23, 2384-2395.	2.6	11
49	Stretching [8]cycloparaphenylene with encapsulated potassium cations: structural and theoretical insights into core perturbation upon four-fold reduction and complexation. <i>Chemical Science</i> , 2021, 12, 6526-6535.	7.4	11
50	Stepwise reduction of a corannulene-based helical molecular nanographene with Na metal. <i>Chemical Communications</i> , 2022, 58, 5574-5577.	4.1	11
51	Crown Ether Assisted Convex Cesium Binding to a Sumanenyl Bowl. <i>Organometallics</i> , 2017, 36, 4961-4967.	2.3	10
52	Reduction of Expanded Cyclooctatetraene with Lithium: Stabilization of the Tetraanion through Internal Li ⁺ Coordination. <i>Angewandte Chemie</i> , 2021, 133, 3552-3556.	2.0	10
53	Expanding the Structural Motif Landscape of Heterometallic β^2 -Diketonates: Congruently Melting Ionic Solids. <i>Inorganic Chemistry</i> , 2018, 57, 2308-2313.	4.0	9
54	Electron-Precise Semiconducting ReGa ₂ Ge: Extending the IrIn ₃ Structure Type to Group 7 of the Periodic Table. <i>Inorganic Chemistry</i> , 2020, 59, 12748-12757.	4.0	9

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55	Reversible structural rearrangement of π -expanded cyclooctatetraene upon two-fold reduction with alkali metals. <i>Chemical Communications</i> , 2022, 58, 3206-3209.	4.1	9
56	Chemical Reduction of a Nanosized [6]Cyclo[2,7]naphthylene Macrocycle. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11201-11205.	13.8	8
57	From lithium to sodium: design of heterometallic molecular precursors for the NaMO ₂ cathode materials. <i>Chemical Communications</i> , 2019, 55, 7243-7246.	4.1	7
58	From a volatile molecular precursor to twin-free single crystals of bismuth. <i>Chemical Communications</i> , 2019, 55, 5717-5719.	4.1	7
59	Molecular and Supramolecular Structures of Triiodides and Polyiodobismuthates of Phenylenediammonium and Its N,N-dimethyl Derivative. <i>Molecules</i> , 2021, 26, 5712.	3.8	7
60	Tuning Magnetic Interactions Between Triphenylene Radicals by Variation of Crystal Packing in Structures with Alkali Metal Counterions. <i>Inorganic Chemistry</i> , 2021, 60, 14844-14853.	4.0	7
61	Lanthanide-mediated tuning of electronic and magnetic properties in heterotrimetallic cyclooctatetraenyl multidecker self-assemblies. <i>Chemical Science</i> , 2022, 13, 3864-3874.	7.4	7
62	Dianion and Dication of Tetracyclopentatetraphenylene as Decoupled Annulene within an Annulene Models. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	7
63	Homoleptic Tetranuclear Complexes of Divalent Tin and Lead Tetraolates. <i>Inorganic Chemistry</i> , 2011, 50, 7295-7300.	4.0	6
64	Versatility of cyclooctatetraenyl ligands in rare earth metal complexes of the [M ₂ (COT) ₃ (THF) ₂] (M = Y and La) type. <i>Dalton Transactions</i> , 2019, 48, 5614-5620.	3.3	6
65	Compressing Double [7]Helicene by Successive Charging with Electrons. <i>Angewandte Chemie</i> , 2020, 132, 16057-16061.	2.0	6
66	The dinuclear scandium(III) cyclooctatetraenyl chloride complex di- μ -chlorido-bis[(η -8-cyclooctatetraene)(tetrahydrofuran- η -O)scandium(III)]. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 420-423.	0.5	5
67	Heterotrimetallic Mixed-Valent Molecular Precursors Containing Periodic Table Neighbors: Assignment of Metal Positions and Oxidation States. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9624-9630.	13.8	5
68	Visible-Light-Mediated Synthesis of Oxidized Amides via Organic Photoredox Catalysis. <i>Synthesis</i> , 2018, 50, 3379-3386.	2.3	4
69	A transannular approach toward lycopodine synthesis. <i>Journal of Antibiotics</i> , 2019, 72, 494-497.	2.0	4
70	Structural Consequences of Two-Fold Deprotonation of Sumanene: Embedding Two Cp-rings into a Nonplanar Carbon Framework. <i>Organometallics</i> , 2021, 40, 2023-2026.	2.3	4
71	Site-Specific Reduction-Induced Hydrogenation of a Helical Bilayer Nanographene with K and Rb Metals: Electron Multiaddition and Selective Rb ⁺ Complexation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
72	Nowotny Chimney Ladder Phases with Group 5 Metals: Crystal and Electronic Structure and Relations to the CrSi ₂ Structure Type. <i>Crystals</i> , 2020, 10, 670.	2.2	3

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73	Stepwise Generation of Mono-, Di-, and Triply-Reduced Warped Nanographenes: Charge-Dependent Aromaticity, Surface Nonequivalence, Swing Distortion, and Metal Binding Sites. <i>Angewandte Chemie</i> , 2021, 133, 25649-25657.	2.0	3
74	Doubly-Reduced Pentacene in Different Coordination Environments: X-ray Crystallographic and Theoretical Insights into Structural and Electronic Changes. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	3
75	Pattern of covalent and non-covalent interactions within the pentaiodide anion in the structure of (3-HOC ₅ H ₉ NH ₂) ₅ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, .	1.2	3
76	Intermetallic Compound Re ₂ Ga ₉ Ge with Re- and Ge-Embedded Gallium Clusters: Synthesis, Crystal Structure, Chemical Bonding, and Physical Properties. <i>Inorganic Chemistry</i> , 2022, 61, 568-578.	4.0	3
77	Monoreduced 1,2-dihydrocorannulene <i>versus</i> the parent corannulene. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2015, 71, 690-694.	0.5	2
78	Heterotrimetallic Mixed-Valent Molecular Precursors Containing Periodic Table Neighbors: Assignment of Metal Positions and Oxidation States. <i>Angewandte Chemie</i> , 2020, 132, 9711-9717.	2.0	2
79	Chemical Reduction of a Nanosized [6]Cyclo[2,7]naphthylene Macrocycle. <i>Angewandte Chemie</i> , 2021, 133, 11301-11305.	2.0	2
80	Synthesis and characterization of amantadinium iodoacetatobismuthate, a hybrid compound with mixed iodide-carboxylate anions. <i>Mendeleev Communications</i> , 2022, 32, 194-197.	1.6	1
81	Frontispiece: Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	13.8	0
82	Frontispiz: Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie</i> , 2017, 129, .	2.0	0
83	Frontispiece: Fusing a Planar Group to a Bowl: Electronic and Molecular Structure, Aromaticity and Solid-State Packing of Naphthocorannulene and its Anions. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
84	Titelbild: Stepwise Reduction of Azapentabenzocorannulene (<i>Angew. Chem.</i> 35/2019). <i>Angewandte Chemie</i> , 2019, 131, 12051-12051.	2.0	0
85	Innentitelbild: Dianion and Dication of Tetracyclopentatetraphenylene as Decoupled Annulene-within-an-Annulene Models (<i>Angew. Chem.</i> 6/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
86	Rücktitelbild: Site-Specific Reduction-Induced Hydrogenation of a Helical Bilayer Nanographene with K and Rb Metals: Electron Multiaddition and Selective Rb ⁺ Complexation (<i>Angew. Chem.</i>) Tj ETQq0 0 0 0 BT /Overlock 10 Tf	2.0	0
87	Dianion and Dication of Tetracyclopentatetraphenylene as Decoupled Annulene-within-an-Annulene Models. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0