

Wan-Lu Li

List of Publications by Year in descending order

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64
papers

2,343
citations

172207

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223531

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times ranked

1814
citing authors

#	ARTICLE	IF	CITATIONS
1	From planar boron clusters to borophenes and metalloborophenes. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	169
2	A Supramolecular Radical Dimer: High Efficiency NIR-Induced Photothermal Conversion and Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15526-15531.	7.2	168
3	Observation of a metal-centered $B_{20}Ta@B_{18}$ tubular molecular rotor and a perfect $Ta@B_{20}$ boron drum with the record coordination number of twenty. <i>Chemical Communications</i> , 2017, 53, 1587-1590.	2.2	114
4	Formation and Characterization of the Boron Dicarbyl Complex $[B(CO)_2]^{+}$. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11078-11083.	7.2	107
5	Manganese-centered tubular boron cluster MnB_{16}^{+} : A new class of transition-metal molecules. <i>Journal of Chemical Physics</i> , 2016, 144, 154310.	1.2	107
6	Competition between drum and quasi-planar structures in RhB_{18}^{+} : motifs for metallo-boronanotubes and metallo-borophenes. <i>Chemical Science</i> , 2016, 7, 7020-7027.	3.7	97
7	The Planar CoB_{18}^{+} Cluster as a Motif for Metallo-Borophenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7358-7363.	7.2	90
8	Observation of highly stable and symmetric lanthanide octa-boron inverse sandwich complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6972-E6977.	3.3	72
9	A Supramolecularly Activated Radical Cation for Accelerated Catalytic Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8933-8937.	7.2	69
10	$[La(\dot{L})_x-B_x]^{+}$ ($x = 7, 9$): a new class of inverse sandwich complexes. <i>Chemical Science</i> , 2019, 10, 2534-2542.	3.7	65
11	PrB_7^{+} : A Praseodymium-Doped Boron Cluster with a Pr^{II} Center Coordinated by a Doubly Aromatic Planar \dot{L}_7 B_7^{+3} Ligand. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6916-6920.	7.2	63
12	A diuranium carbide cluster stabilized inside a C ₈₀ fullerene cage. <i>Nature Communications</i> , 2018, 9, 2753.	5.8	63
13	Chemical Bonding of Crystalline LnB_6 ($Ln = La-Lu$) and Its Relationship with Ln_2B_8 Gas-Phase Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 12999-13008.	1.9	57
14	Preparation and Characterization of Uranium-Iron Triple-Bonded $UFe(CO)_3^{+}$ and $O(UFe(CO)_3)^{+}$ Complexes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6932-6936.	7.2	53
15	B_{26}^{+} : The smallest planar boron cluster with a hexagonal vacancy and a complicated potential landscape. <i>Chemical Physics Letters</i> , 2017, 683, 336-341.	1.2	48
16	A Very Short Be-Be Distance but No Bond: Synthesis and Bonding Analysis of $NgBe_2O_2^{+}$ ($Ng = Ne, Ar, Kr, Xe$). <i>Chemistry - A European Journal</i> , 2017, 23, 2035-2039.	7.23	46
17	On the Upper Limits of Oxidation States in Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3242-3245.	7.2	46
18	A Supramolecular Radical Dimer: High Efficiency NIR-Induced Photothermal Conversion and Therapy. <i>Angewandte Chemie</i> , 2019, 131, 15672-15677.	1.6	44

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19	Planar B ₄₁ ⁺ and B ₄₂ ⁺ clusters with double-hexagonal vacancies. <i>Nanoscale</i> , 2019, 11, 23286-23295.	2.8	44
20	Unravelling the Enigma of Nonoxidative Conversion of Methane on Iron Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18586-18590.	7.2	44
21	Spherical trihedral metallo-borospherenes. <i>Nature Communications</i> , 2020, 11, 2766.	5.8	43
22	Re ₈ ⁺ and Re ₉ ⁺ : New Members of the Transition-Metal-Centered Borometallic Molecular Wheel Family. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5317-5324.	1.1	40
23	Lanthanides with Unusually Low Oxidation States in the Pr ₃ ⁺ and Pr ₄ ⁺ Boride Clusters. <i>Inorganic Chemistry</i> , 2019, 58, 411-418.	1.9	39
24	Catalytic Principles from Natural Enzymes and Translational Design Strategies for Synthetic Catalysts. <i>ACS Central Science</i> , 2021, 7, 72-80.	5.3	39
25	Relativistic Effects Break Periodicity in Group 6 Diatomic Molecules. <i>Journal of the American Chemical Society</i> , 2016, 138, 1126-1129.	6.6	38
26	La ₃ B ₁₄ ⁺ : an inverse triple-decker lanthanide boron cluster. <i>Chemical Communications</i> , 2019, 55, 7864-7867.	2.2	36
27	Interplay of water and a supramolecular capsule for catalysis of reductive elimination reaction from gold. <i>Nature Communications</i> , 2020, 11, 415.	5.8	35
28	Electronic Structure and Bonding Situation in M ₂ O ₂ (M = Be, Mg, Ca) Rhombic Clusters. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2816-2822.	1.1	34
29	Quadruple bonding between iron and boron in the BFe(CO) ₃ ⁺ complex. <i>Nature Communications</i> , 2019, 10, 4713.	5.8	34
30	The Planar CoB ₁₈ ⁺ Cluster as a Motif for Metallo-Borophenes. <i>Angewandte Chemie</i> , 2016, 128, 7484-7489.	1.6	30
31	Probing the Electronic Structure and Chemical Bonding of Mono-Uranium Oxides with Different Oxidation States: UO _x ⁺ and UO _x (x = 3-5). <i>Journal of Physical Chemistry A</i> , 2016, 120, 1084-1096.	1.1	29
32	Crown ether complexes of actinyls: a computational assessment of AnO ₂ (15-crown-5) ²⁺ (An = U, Np, Pu, Am, Cm). <i>Dalton Transactions</i> , 2017, 46, 12354-12363.	1.6	28
33	An isolated water droplet in the aqueous solution of a supramolecular tetrahedral cage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32954-32961.	3.3	24
34	Quercetin supplemented casein-based extender improves the post-thaw quality of rooster semen. <i>Cryobiology</i> , 2020, 94, 57-65.	0.3	22
35	Electronic structure and characterization of a uranyl di-15-crown-5 complex with an unprecedented sandwich structure. <i>Chemical Communications</i> , 2016, 52, 12761-12764.	2.2	21
36	A supramolecular radical cation: folding-enhanced electrostatic effect for promoting radical-mediated oxidation. <i>Chemical Science</i> , 2018, 9, 5015-5020.	3.7	21

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37	A Supramolecularly Activated Radical Cation for Accelerated Catalytic Oxidation. <i>Angewandte Chemie</i> , 2016, 128, 9079-9083.	1.6	19
38	Periodicity, Electronic Structures, and Bonding of Gold Tetrahalides $[AuX_4]^+$ (X = F, Cl, Br, I, At, Uus). <i>Inorganic Chemistry</i> , 2015, 54, 11157-11167.	1.9	18
39	Monovalent lanthanide(I) in borozene complexes. <i>Nature Communications</i> , 2021, 12, 6467.	5.8	18
40	Bond-bending isomerism of $Au_2I_3^+$: competition between covalent bonding and aurophilicity. <i>Chemical Science</i> , 2016, 7, 475-481.	3.7	16
41	Challenges for density functional theory: calculation of CO adsorption on electrocatalytically relevant metals. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9394-9406.	1.3	15
42	Expanded Inverse-Sandwich Complexes of Lanthanum Borides: $La_2B_{10}^+$ and $La_2B_{11}^+$. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2622-2630.	1.1	15
43	PrB_7^+ : A Praseodymium-Doped Boron Cluster with a Pr^{II} Center Coordinated by a Doubly Aromatic Planar B_7^3- Ligand. <i>Angewandte Chemie</i> , 2017, 129, 7020-7024.	1.6	13
44	Formation and Characterization of a BeOBeC Multiple Radical Featuring a Quartet Carbyne Moiety. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6923-6928.	7.2	13
45	Relativity-Induced Bonding Pattern Change in Coinage Metal Dimers M_2 (M = Cu, Ag, Au, Rg). <i>Inorganic Chemistry</i> , 2018, 57, 5499-5506.	1.9	12
46	Recent Progress on the investigations of boron clusters and boron-based materials (I): borophene. <i>Scientia Sinica Chimica</i> , 2018, 48, 98-107.	0.2	12
47	Optimized Pseudopotentials and Basis Sets for Semiempirical Density Functional Theory for Electrocatalysis Applications. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10304-10309.	2.1	12
48	5-Aminolevulinic Acid-Mediated Sonodynamic Therapy Promotes Phenotypic Switching from Dedifferentiated to Differentiated Phenotype via Reactive Oxygen Species and p38 Mitogen-Activated Protein Kinase in Vascular Smooth Muscle Cells. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1681-1689.	0.7	10
49	Critical Role of Thermal Fluctuations for CO Binding on Electrocatalytic Metal Surfaces. <i>Jacs Au</i> , 2021, 1, 1708-1718.	3.6	10
50	Periodicity and Covalency of $[MX_2]^+$ (M = Cu, Ag, Au, Rg; X = H, Cl, CN) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1395-1404.	1.0	9
51	Formation and Characterization of a BeOBeC Multiple Radical Featuring a Quartet Carbyne Moiety. <i>Angewandte Chemie</i> , 2020, 132, 6990-6995.	1.6	9
52	Optimizing the Solvent Reorganization Free Energy by Metal Substitution for Nanocage Catalysis. <i>ACS Catalysis</i> , 2022, 12, 3782-3788.	5.5	9
53	Theoretical studies on the bonding and electron structures of a $[Au_3Sb_6]^3+$ complex and its oligomers. <i>Dalton Transactions</i> , 2016, 45, 11657-11667.	1.6	8
54	Effects of k-carrageenan supplementation or in combination with cholesterol-loaded cyclodextrin following freezing-thawing process of rooster spermatozoa. <i>Cryobiology</i> , 2020, 95, 36-43.	0.3	8

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55	Degradation of benzothiophene in diesel oil by LaZnAl layered double hydroxide: photocatalytic performance and mechanism. <i>Petroleum Science</i> , 2019, 16, 173-179.	2.4	7
56	Third-order nonlinear optical properties of axially modified indium phthalocyanines with alkyl chains. <i>New Journal of Chemistry</i> , 2021, 45, 10021-10030.	1.4	7
57	Uranyl/12-crown-4 Ether Complexes and Derivatives: Structural Characterization and Isomeric Differentiation. <i>Inorganic Chemistry</i> , 2018, 57, 4125-4134.	1.9	6
58	Au ₈ ⁺ : an Au ⁺ borozene complex. <i>Chemical Communications</i> , 2022, 58, 3134-3137.	2.2	6
59	Probing the electronic structure of the CoB ₁₆ ⁺ drum complex: Unusual oxidation state of Co ¹ . <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 241-247.	0.6	5
60	Comparison of HVAC and HVDC based grid integration on wind farm. , 2014, , .		2
61	Linear Combination of Atomic Dipoles to Calculate the Bond and Molecular Dipole Moments of Molecules and Molecular Liquids. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12360-12369.	2.1	2
62	Frontispiz: The Planar CoB ₁₈ ⁺ Cluster as a Motif for Metallo ⁺ Borophenes. <i>Angewandte Chemie</i> , 2016, 128, .	1.6	1
63	Quantum chemical studies of the electronic structures of anti-tumor agents: Au ⁺ (L ⁺ = ⁺ porphine,) Tj ETQq1 1 0.784314 rgBT /Over	1.1	1
64	Imputation of Ammonium Nitrogen Concentration in Groundwater Based on a Machine Learning Method. <i>Water (Switzerland)</i> , 2022, 14, 1595.	1.2	1