

Wan-Lu Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

1,635

citations

23

h-index

39

g-index

65

ext. papers

2,012

ext. citations

8.3

avg, IF

5.11

L-index

#	Paper	IF	Citations
63	AuB: an Au-borazene complex.. <i>Chemical Communications</i> , 2022 ,	5.8	1
62	Optimizing the Solvent Reorganization Free Energy by Metal Substitution for Nanocage Catalysis. <i>ACS Catalysis</i> , 2022 , 12, 3782-3788	13.1	2
61	Quantum chemical studies of the electronic structures of anti-tumor agents: Au(III)+ (LEPorphine, tetraphenylporphyrin). <i>Computational and Theoretical Chemistry</i> , 2022 , 1211, 113685	2	
60	Imputation of Ammonium Nitrogen Concentration in Groundwater Based on a Machine Learning Method. <i>Water (Switzerland)</i> , 2022 , 14, 1595	3	0
59	Monovalent lanthanide(I) in borazene complexes. <i>Nature Communications</i> , 2021 , 12, 6467	17.4	3
58	Optimized Pseudopotentials and Basis Sets for Semiempirical Density Functional Theory for Electrocatalysis Applications. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10304-10309	6.4	3
57	Expanded Inverse-Sandwich Complexes of Lanthanum Borides: LaB and LaB. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 2622-2630	2.8	10
56	Catalytic Principles from Natural Enzymes and Translational Design Strategies for Synthetic Catalysts. <i>ACS Central Science</i> , 2021 , 7, 72-80	16.8	17
55	Third-order nonlinear optical properties of axially modified indium phthalocyanines with alkyl chains. <i>New Journal of Chemistry</i> , 2021 , 45, 10021-10030	3.6	1
54	Challenges for density functional theory: calculation of CO adsorption on electrocatalytically relevant metals. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9394-9406	3.6	8
53	Critical Role of Thermal Fluctuations for CO Binding on Electrocatalytic Metal Surfaces. <i>Jacs Au</i> , 2021 , 1, 1708-1718		5
52	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	6.4	1
51	Quercetin supplemented casein-based extender improves the post-thaw quality of rooster semen. <i>Cryobiology</i> , 2020 , 94, 57-65	2.7	9
50	Spherical trihedral metallo-borosphenenes. <i>Nature Communications</i> , 2020 , 11, 2766	17.4	20
49	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	2.7	4
48	Unravelling the Enigma of Nonoxidative Conversion of Methane on Iron Single-Atom Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18586-18590	16.4	20
47	Formation and Characterization of a BeOBeC Multiple Radical Featuring a Quartet Carbyne Moiety. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6923-6928	16.4	9

46	Formation and Characterization of a BeOBeC Multiple Radical Featuring a Quartet Carbyne Moiety. <i>Angewandte Chemie</i> , 2020 , 132, 6990-6995	3.6	9
45	Interplay of water and a supramolecular capsule for catalysis of reductive elimination reaction from gold. <i>Nature Communications</i> , 2020 , 11, 415	17.4	23
44	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	11.5	8
43	Probing the electronic structure of the CoB ₁₆ drum complex: Unusual oxidation state of Co ^{III} . <i>Chinese Journal of Chemical Physics</i> , 2019 , 32, 241-247	0.9	3
42	[La(βB) ₂ La] (= 7-9): a new class of inverse sandwich complexes. <i>Chemical Science</i> , 2019 , 10, 2534-2542	9.4	42
41	Re ^{IV} B and Re ^{III} B: New Members of the Transition-Metal-Centered Borometallic Molecular Wheel Family. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5317-5324	2.8	23
40	LaB: an inverse triple-decker lanthanide boron cluster. <i>Chemical Communications</i> , 2019 , 55, 7864-7867	5.8	25
39	A Supramolecular Radical Dimer: High-Efficiency NIR-II Photothermal Conversion and Therapy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15526-15531	16.4	97
38	A Supramolecular Radical Dimer: High-Efficiency NIR-II Photothermal Conversion and Therapy. <i>Angewandte Chemie</i> , 2019 , 131, 15672-15677	3.6	29
37	Quadruple bonding between iron and boron in the BFe(CO) complex. <i>Nature Communications</i> , 2019 , 10, 4713	17.4	26
36	Planar B and B clusters with double-hexagonal vacancies. <i>Nanoscale</i> , 2019 , 11, 23286-23295	7.7	29
35	Degradation of benzothiophene in diesel oil by LaZnAl layered double hydroxide: photocatalytic performance and mechanism. <i>Petroleum Science</i> , 2019 , 16, 173-179	4.4	5
34	Lanthanides with Unusually Low Oxidation States in the PrB and PrB Boride Clusters. <i>Inorganic Chemistry</i> , 2019 , 58, 411-418	5.1	23
33	Electronic Structure and Bonding Situation in MO (M = Be, Mg, Ca) Rhombic Clusters. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 2816-2822	2.8	21
32	Relativity-Induced Bonding Pattern Change in Coinage Metal Dimers M (M = Cu, Ag, Au, Rg). <i>Inorganic Chemistry</i> , 2018 , 57, 5499-5506	5.1	10
31	On the Upper Limits of Oxidation States in Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3242-3245	16.4	37
30	Uranyl/12-crown-4 Ether Complexes and Derivatives: Structural Characterization and Isomeric Differentiation. <i>Inorganic Chemistry</i> , 2018 , 57, 4125-4134	5.1	5
29	A diuranium carbide cluster stabilized inside a C fullerene cage. <i>Nature Communications</i> , 2018 , 9, 2753	17.4	47

28	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	11.5	59
27	Recent Progress on the investigations of boron clusters and boron-based materials (I): borophene. <i>Scientia Sinica Chimica</i> , 2018 , 48, 98-107	1.6	10
26	Chemical Bonding of Crystalline LnB (Ln = La-Lu) and Its Relationship with LnB Gas-Phase Complexes. <i>Inorganic Chemistry</i> , 2018 , 57, 12999-13008	5.1	39
25	A supramolecular radical cation: folding-enhanced electrostatic effect for promoting radical-mediated oxidation. <i>Chemical Science</i> , 2018 , 9, 5015-5020	9.4	16
24	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	2.5	33
23	PrB : A Praseodymium-Doped Boron Cluster with a Pr Center Coordinated by a Doubly Aromatic Planar η^5 -B Ligand. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6916-6920	16.4	46
22	Preparation and Characterization of Uranium-Iron Triple-Bonded UFe(CO) and OUFe(CO) Complexes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6932-6936	16.4	36
21	PrB ₇ —A Praseodymium-Doped Boron Cluster with a PrII Center Coordinated by a Doubly Aromatic Planar η^5 -B ₇ Ligand. <i>Angewandte Chemie</i> , 2017 , 129, 7020-7024	3.6	12
20	A Very Short Be-Be Distance but No Bond: Synthesis and Bonding Analysis of Ng-Be O -Ng (Ng, Ng@Ne, Ar, Kr, Xe). <i>Chemistry - A European Journal</i> , 2017 , 23, 2035-2039	4.8	34
19	Observation of a metal-centered B-Ta@B tubular molecular rotor and a perfect Ta@B boron drum with the record coordination number of twenty. <i>Chemical Communications</i> , 2017 , 53, 1587-1590	5.8	90
18	From planar boron clusters to borophenes and metalloborophenes. <i>Nature Reviews Chemistry</i> , 2017 , 1, 1, 1	34.6	118
17	Crown ether complexes of actinyls: a computational assessment of AnO(15-crown-5) (An = U, Np, Pu, Am, Cm). <i>Dalton Transactions</i> , 2017 , 46, 12354-12363	4.3	23
16	Bond-bending isomerism of AuI: competition between covalent bonding and aurophilicity. <i>Chemical Science</i> , 2016 , 7, 475-481	9.4	14
15	Relativistic Effects Break Periodicity in Group 6 Diatomic Molecules. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1126-9	16.4	31
14	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, 1084-96	2.8	22
13	Theoretical studies on the bonding and electron structures of a [Au ₃ Sb ₆](3-) complex and its oligomers. <i>Dalton Transactions</i> , 2016 , 45, 11657-67	4.3	6
12	Frontispiz: The Planar CoB ₁₈ Cluster as a Motif for Metallo-Borophenes. <i>Angewandte Chemie</i> , 2016 , 128,	3.6	1
11	The Planar CoB ₁₈ (-) Cluster as a Motif for Metallo-Borophenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7358-63	16.4	71

10	A Supramolecularly Activated Radical Cation for Accelerated Catalytic Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8933-7	16.4	57
9	A Supramolecularly Activated Radical Cation for Accelerated Catalytic Oxidation. <i>Angewandte Chemie</i> , 2016 , 128, 9079-9083	3.6	16
8	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	2.3	9
7	The Planar CoB ₁₈ Cluster as a Motif for Metallo-Borophenes. <i>Angewandte Chemie</i> , 2016 , 128, 7484-7489	3.6	24
6	Manganese-centered tubular boron cluster - MnB ₁₆ (-): A new class of transition-metal molecules. <i>Journal of Chemical Physics</i> , 2016 , 144, 154310	3.9	84
5	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	5.8	18
4	Competition between drum and quasi-planar structures in RhB: motifs for metallo-boronanotubes and metallo-borophenes. <i>Chemical Science</i> , 2016 , 7, 7020-7027	9.4	78
3	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, 1681-9	3.5	9
2	Periodicity, Electronic Structures, and Bonding of Gold Tetrahalides [AuX ₄]- (X = F, Cl, Br, I, At, Uus). <i>Inorganic Chemistry</i> , 2015 , 54, 11157-67	5.1	18
1	Formation and characterization of the boron dicarbonyl complex [B(CO) ₂](⁻). <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11078-83	16.4	86