

Zhu-Xia Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

511
citations

840776

11
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713466

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38
all docs

38
docs citations

38
times ranked

851
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Fullerene Bisadduct Regioisomers on Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2014, 24, 158-163.	14.9	104
2	Molecular magnetic switch for a metallofullerene. <i>Nature Communications</i> , 2015, 6, 6468.	12.8	50
3	New Synthetic Route and Characterization of Magnesium Borate Nanorods. <i>Crystal Growth and Design</i> , 2008, 8, 1218-1222.	3.0	40
4	Ag/CdS heterostructural composites: Fabrication, characterizations and photocatalysis. <i>Applied Surface Science</i> , 2014, 313, 558-562.	6.1	35
5	First Principle Calculations of the Electronic Properties of the Fullerene Derivative as an Electron Acceptor in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19158-19161.	3.1	30
6	Visible-Light Carbon Nitride-Catalyzed Aerobic Cyclization of Thiobenzanilides under Ambient Air Conditions. <i>Organic Letters</i> , 2021, 23, 4843-4848.	4.6	27
7	p-Cu ₂ O/n-ZnO heterojunction fabricated by hydrothermal method. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 751-756.	2.3	23
8	First principle study of cysteine molecule on intrinsic and Au-doped graphene surface as a chemosensor device. <i>Journal of Molecular Modeling</i> , 2011, 17, 649-655.	1.8	22
9	Size-selective encapsulation of metallofullerenes by [12]Cycloparaphenylene and dissociation using metal-organic framework. <i>Carbon</i> , 2020, 161, 694-701.	10.3	19
10	Metallofullerenes Encaging Mixed-Metal Clusters: Synthesis and Structural Studies of Gd _x Ho _{3-x} N@C ₈₀ and Gd _x Lu _{3-x} N@C ₈₀ . <i>ChemPhysChem</i> , 2015, 16, 295-298.	2.1	13
11	CdS nanowires decorated with Cu ₂ O nanospheres: Synthesis, formation process and enhanced photoactivity and stability. <i>Journal of Alloys and Compounds</i> , 2015, 644, 159-164.	5.5	12
12	A Metallofullertube of Ce ₂ @C ₁₀₀ with a Carbon Nanotube Segment: Synthesis, Single-Molecule Conductance and Supramolecular Assembly. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	10
13	Mechanistic Insights into Ni-Catalyzed Difunctionalization of Alkenes Using Organoboronic Acids and Organic Halides: Understanding Remarkable Substrate-Dependent Regioselectivity. <i>Organometallics</i> , 2020, 39, 2057-2067.	2.3	9
14	Effect of oxygen vacancy concentration on the photocatalytic hydrogen evolution performance of anatase TiO ₂ : DFT and experimental studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 13369-13381.	2.2	9
15	NiS nanosheets synthesized by one-step microwave for high-performance supercapacitor. <i>Functional Materials Letters</i> , 2021, 14, .	1.2	9
16	DFT Studies of Ag-Loading Intrinsic and Functionalized Single-Walled Carbon Nanotubes. <i>Chinese Journal of Chemistry</i> , 2012, 30, 121-126.	4.9	8
17	Effects of Ga _x Zn _{1-x} O nanorods on the photoelectric properties of n-ZnO nanorods/p-GaN heterojunction light-emitting diodes. <i>RSC Advances</i> , 2017, 7, 49613-49617.	3.6	8
18	A theoretical study on the oxidation of alkenes to aldehydes catalyzed by ruthenium porphyrins using O ₂ as the sole oxidant. <i>Dalton Transactions</i> , 2018, 47, 5286-5297.	3.3	8

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19	Improved Oxidation Resistance of a New Aluminum-Containing Austenitic Stainless Steel at 800°C in Air. <i>Oxidation of Metals</i> , 2017, 88, 301-314.	2.1	7
20	Unveiling the Mechanism, Origin of Stereoselectivity, and Ligand-Dependent Reactivity in the Pd(II)-Catalyzed Unbiased Methylene C(sp ³)-H Alkenylation-Aza-Wacker Cyclization Reaction. <i>Journal of Organic Chemistry</i> , 2020, 85, 13191-13203.	3.2	7
21	Performance enhancement of GaN-based light-emitting diodes by surface plasmon coupling and scattering grating. <i>Journal of Materials Science</i> , 2013, 48, 5673-5679.	3.7	6
22	Diels-Alder Reactivity of Metallofullerene Sc ₃ N@C ₇₈ and Structure Elucidation on Its Products. <i>ChemistrySelect</i> , 2017, 2, 8880-8885.	1.5	6
23	Paramagnetic and theoretical study of Y ₂ @C ₈₁ N: an endohedral azafullerene radical. <i>Dalton Transactions</i> , 2014, 43, 12871-12875.	3.3	5
24	Do two oxidants (ferric-peroxo and ferryl-oxo species) act in the biosynthesis of estrogens? A DFT calculation. <i>RSC Advances</i> , 2018, 8, 15196-15201.	3.6	5
25	Mechanistic Insights into the Ni-Catalyzed Reductive Carboxylation of C=O Bonds in Aromatic Esters with CO ₂ : Understanding Remarkable Ligand and Traceless-Directing-Group Effects. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1570-1581.	3.3	5
26	Visible and near-infrared photoluminescence of a supramolecular complex constructed from a cycloparaphenylene nanoring and an erbium metallofullerene. <i>Dalton Transactions</i> , 0, , .	3.3	5
27	Computational study on palladium-catalyzed alkenylation of remote C(sp ³)-H bonds with alkynes: a new understanding of mechanistic insight and origins of site-selectivity. <i>RSC Advances</i> , 2018, 8, 30186-30190.	3.6	4
28	One-step microwave synthesis of CoSb for high-performance wearable flexible supercapacitor. <i>Functional Materials Letters</i> , 2022, 15, .	1.2	4
29	Photoelectrochemical Response Enhancement for Metallofullerene-[12]Cycloparaphenylene Supramolecular Complexes. <i>Nanomaterials</i> , 2022, 12, 1408.	4.1	4
30	Halogen-Bonding-Promoted C-H Malonylation of Indoles under Visible-Light Irradiation. <i>Journal of Organic Chemistry</i> , 0, , .	3.2	4
31	Theoretical studies on transforming a GaN semiconductor into a photonic crystal under a periodic external magnetic field. <i>Journal of Materials Science</i> , 2013, 48, 1147-1152.	3.7	3
32	A temperature-responsive C2 wagging vibration in Sc ₂ C ₂ @Cs-C ₈₂ . <i>Chemical Communications</i> , 2018, 54, 775-777.	4.1	3
33	Endohedral Regulator for Metallofullerene Chemical Property: Diels-Alder Reaction Studies of Sc ₃ Y ₃ @C ₈₀ -h ₃ (C _{3v}). <i>ChemistrySelect</i> , 2018, 3, 1495-1498.	1.5	2
34	A Metallofullertube of Ce ₂ @C ₁₀₀ with a Carbon Nanotube Segment: Synthesis, Single-Molecule Conductance and Supramolecular Assembly. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
35	High-Temperature Initial Oxidation Behavior in LDX 2101. <i>Steel Research International</i> , 2018, 89, 1800083.	1.8	1
36	Acceleration of oxidation process of iron in supercritical water containing dissolved oxygen by the formation of H ₂ O ₂ . <i>AIP Advances</i> , 2018, 8, 085104.	1.3	1

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37	Surface adsorption and diffusion of N on γ -Fe ϵ -Al (111) using first principles calculations. Journal of Iron and Steel Research International, 2019, 26, 882-887.	2.8	1