

Qi Zhang

List of Publications by Year in descending order

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34
papers

1,081
citations

394421

19
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

1257
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergy between dynamic covalent boronic ester and boron–nitrogen coordination: strategy for self-healing polyurethane elastomers at room temperature with unprecedented mechanical properties. <i>Materials Horizons</i> , 2021, 8, 216-223.	12.2	145
2	Mechanism of the Visible Light-Mediated Gold-Catalyzed Oxyarylation Reaction of Alkenes. <i>ACS Catalysis</i> , 2016, 6, 798-808.	11.2	91
3	Mechanism of Vanadium-Catalyzed Selective C=O and C=C Cleavage of Lignin Model Compound. <i>ACS Catalysis</i> , 2016, 6, 4399-4410.	11.2	90
4	Ligand-Controlled Regiodivergent Copper-Catalyzed Alkylboration of Unactivated Terminal Alkynes. <i>ACS Catalysis</i> , 2016, 6, 6417-6421.	11.2	84
5	Sulfur-deficient MoS _{2-x} promoted lithium polysulfides conversion in lithium-sulfur battery: A first-principles study. <i>Applied Surface Science</i> , 2019, 487, 452-463.	6.1	58
6	Computational study on mechanism of Rh(III)-catalyzed oxidative Heck coupling of phenol carbamates with alkenes. <i>Dalton Transactions</i> , 2013, 42, 4175.	3.3	57
7	Local nanostructures enhanced the thermoelectric performance of n-type PbTe. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18458-18467.	10.3	53
8	Mechanism of Aldehyde-Selective Wacker-Type Oxidation of Unbiased Alkenes with a Nitrite Co-Catalyst. <i>ACS Catalysis</i> , 2015, 5, 1414-1423.	11.2	51
9	A multifunctional separator based on scandium oxide nanocrystal decorated carbon nanotubes for high performance lithium–sulfur batteries. <i>Nanoscale</i> , 2020, 12, 6832-6843.	5.6	34
10	Mechanistic Insights into the Solvent-Driven Adsorptive Hydrodeoxygenation of Biomass Derived Levulinic Acid/Ester to 2-Methyltetrahydrofuran over Bimetallic Cu–Ni Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11477-11490.	6.7	33
11	New insights into the key bifunctional role of sulfur in Fe–N–C single-atom catalysts for ORR/OER. <i>Nanoscale</i> , 2022, 14, 3212-3223.	5.6	32
12	NHC-catalyzed homoenolate reaction of enals and nitroalkenes: computational study of mechanism, chemoselectivity and stereoselectivity. <i>Organic Chemistry Frontiers</i> , 2014, 1, 614-624.	4.5	30
13	Theoretical Insights into the Favorable Functionalized Ti ₂ C-Based MXenes for Lithium–Sulfur Batteries. <i>ACS Omega</i> , 2020, 5, 29272-29283.	3.5	28
14	Mechanism of Boron-Catalyzed N-Alkylation of Amines with Carboxylic Acids. <i>Journal of Organic Chemistry</i> , 2016, 81, 6235-6243.	3.2	27
15	Mechanistic Insights into the Chemo- and Regio-Selective B(C ₆ F ₅) ₃ Catalyzed C–H Functionalization of Phenols with Diazoesters. <i>Journal of Organic Chemistry</i> , 2019, 84, 14508-14519.	3.2	27
16	Nitrogen, sulfur-codoped micro–mesoporous carbon derived from boat-fruited sterculia seed for robust lithium–sulfur batteries. <i>RSC Advances</i> , 2019, 9, 15715-15726.	3.6	24
17	Layer-by-Layer Assembly of CeO ₂ @C-rGO Nanocomposites and CNTs as a Multifunctional Separator Coating for Highly Stable Lithium–Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18634-18645.	8.0	24
18	Mechanistic Study of Palladium-Catalyzed Chemoselective C(sp ³)–H Activation of Carbamoyl Chloride. <i>Organometallics</i> , 2013, 32, 4165-4173.	2.3	23

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19	Theoretical prediction of B/Al-doped black phosphorus as potential cathode material in lithium-sulfur batteries. <i>Applied Surface Science</i> , 2020, 512, 145639.	6.1	22
20	Photocatalytic site-selective C-H difluoroalkylation of aromatic aldehydes. <i>Chemical Communications</i> , 2020, 56, 1497-1500.	4.1	20
21	Mechanism and Origin of Ligand-Controlled Chemo- and Regioselectivities in Palladium-Catalyzed Methoxycarbonylation of Alkynes. <i>Journal of Organic Chemistry</i> , 2020, 85, 7136-7151.	3.2	18
22	3D Tungsten Disulfide/Carbon Nanotube Networks as Separator Coatings and Cathode Additives for Stable and Fast Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45547-45557.	8.0	17
23	Mechanistic Insights into Solvent and Ligand Dependency in Cu(I)-Catalyzed Allylic Alkylation with <i>gem</i> -Diborylalkanes. <i>Journal of Organic Chemistry</i> , 2018, 83, 561-570.	3.2	14
24	Selective Production of 2-Butanol from Hydrogenolysis of Levulinic Acid Catalyzed by the Non-precious NiMn Bimetallic Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15603-15611.	6.7	14
25	The mechanism and structure-activity relationship of amide bond formation by silane derivatives: a computational study. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9232-9242.	2.8	10
26	New insights into synergistic effects of La ₂ O ₃ and nitrogen doped carbon for improved redox kinetics in lithium-sulfur batteries: A computational study. <i>Applied Surface Science</i> , 2021, 563, 150172.	6.1	10
27	Mechanistic insights into the ligand-controlled regioselectivity in Cu-catalyzed terminal alkynes alkylation. <i>Journal of Organometallic Chemistry</i> , 2018, 871, 48-55.	1.8	9
28	Mechanism and Origin of Stereoselectivity of Pd-Catalyzed Cascade Annulation of Aryl Halide, Alkene, and Carbon Monoxide via C-H Activation. <i>Journal of Organic Chemistry</i> , 2019, 84, 4353-4362.	3.2	8
29	Dithiothreitol-assisted polysulfide reduction in the interlayer of lithium-sulfur batteries: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16435-16443.	2.8	7
30	One-pot conversion of biomass-derived levulinic acid to furanic biofuel 2-methyltetrahydrofuran over bimetallic NiCo/Al ₂ O ₃ catalysts. <i>Molecular Catalysis</i> , 2022, 524, 112317.	2.0	7
31	Theoretical understanding for anchoring effect of MOFs for lithium-sulfur batteries. <i>Computational and Theoretical Chemistry</i> , 2021, 1196, 113110.	2.5	4
32	Regioselective Construction of Chemically Transformed Phosphide-Metal Nanoheterostructures for Enhanced Hydrogen Evolution Catalysis. <i>Inorganic Chemistry</i> , 2021, 60, 7269-7275.	4.0	4
33	A computational study on H ₂ S release and amide formation from thionoesters and cysteine. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5771-5778.	2.8	3
34	Mechanistic Studies on <i>N</i> -Heterocyclic Carbene-Catalyzed Umpolung of α,β -Unsaturated α,β -Diketones. <i>Journal of Organic Chemistry</i> , 2021, 86, 4432-4439.	3.2	3