

Zheng Wang

List of Publications by Year in descending order

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papers

2,215
citations

257357

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all docs

45
docs citations

45
times ranked

3199
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Reconstruction on Uniform Cu Nanodisks Boosted Electrochemical Nitrate Reduction to Ammonia. , 2022, 4, 650-656.		42
2	Facile Synthesis of Carbon Nanobelts Decorated with Cu and Pd for Nitrate Electroreduction to Ammonia. ACS Applied Materials & Interfaces, 2022, 14, 30969-30978.	4.0	30
3	Unlocking the Potential of Mechanochemical Coupling: Boosting the Oxygen Evolution Reaction by Mating Proton Acceptors with Electron Donors. Advanced Functional Materials, 2021, 31, 2008077.	7.8	40
4	In situ formation of poly(butyl acrylate)-based non-flammable elastic quasi-solid electrolyte for dendrite-free flexible lithium metal batteries with long cycle life for wearable devices. Energy Storage Materials, 2021, 34, 629-639.	9.5	59
5	Box-copper catalyzed asymmetric inverse-electron-demand oxa-hetero-Diels-Alder reaction for efficient synthesis of spiro pyranyl-oxindole derivatives. Organic Chemistry Frontiers, 2021, 8, 2009-2018.	2.3	8
6	Establishing structure/property relationships in atomically dispersed Co-Fe dual site Mn catalysts on microporous carbon for the oxygen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 13044-13055.	5.2	49
7	TM LDH Meets Birnessite: A 2D Hybrid Catalyst with Long-Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie - International Edition, 2021, 60, 9699-9705.	7.2	57
8	TM LDH Meets Birnessite: A 2D Hybrid Catalyst with Long-Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie, 2021, 133, 9785-9791.	1.6	3
9	Single-atom catalyst for high-performance methanol oxidation. Nature Communications, 2021, 12, 5235.	5.8	113
10	Enhancing Ni Exsolution by Nonmetal B-Site Substituents (Si and P) in SrTiO ₃ -Based Solid Oxide Fuel Cell Anodes. Energy & Fuels, 2021, 35, 15084-15093.	2.5	6
11	Direct access to spirocycles by Pd/WingPhos-catalyzed enantioselective cycloaddition of 1,3-enynes. Nature Communications, 2021, 12, 5667.	5.8	30
12	Boosting performance and stability of inverted perovskite solar cells by modulating the cathode interface with phenyl phosphine-inlaid semiconducting polymer. Nano Energy, 2021, 89, 106374.	8.2	10
13	Interfacial Post-treatment for Enhancing the Performance of Printable Carbon-Based Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900278.	3.1	23
14	Organocatalytic Enantioselective Synthesis of Tetrasubstituted β -Amino Allenolates by Dearomative β -Addition of 2,3-Disubstituted Indoles to β -Alkynyl α -Imino Esters. Angewandte Chemie - International Edition, 2020, 59, 642-647.	7.2	71
15	Organocatalytic Enantioselective Synthesis of Tetrasubstituted β -Amino Allenolates by Dearomative β -Addition of 2,3-Disubstituted Indoles to β -Alkynyl α -Imino Esters. Angewandte Chemie, 2020, 132, 652-657.	1.6	20
16	NiMn compound nanosheets for electrocatalytic water oxidation: effects of atomic structures and oxidation states. Nanoscale, 2020, 12, 2472-2478.	2.8	17
17	Identifying the Active Sites of a Single Atom Catalyst with pH-Universal Oxygen Reduction Reaction Activity. Cell Reports Physical Science, 2020, 1, 100115.	2.8	26
18	The Role of Ceria in a Hybrid Catalyst toward Alkaline Water Oxidation. ChemSusChem, 2020, 13, 5273-5279.	3.6	36

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19	Precise Spin Manipulation of Single Molecule Positioning on Graphene by Coordination Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9819-9827.	2.1	7
20	Metal-Organic Frameworks Derived Interconnected Bimetallic Metaphosphate Nanoarrays for Efficient Electrocatalytic Oxygen Evolution. <i>Advanced Functional Materials</i> , 2020, 30, 1910498.	7.8	104
21	Efficient synthesis of cyclic amidine-based fluorophores via $\text{6}\pi\text{-electrocyclic ring closure}$. <i>Chemical Science</i> , 2020, 11, 3586-3591.	3.7	14
22	A prenucleation strategy for ambient fabrication of perovskite solar cells with high device performance uniformity. <i>Nature Communications</i> , 2020, 11, 1006.	5.8	98
23	Boosting carbon dioxide electroreduction to C1 feedstocks via theory-guided tailoring oxygen defects in porous tin-oxide nanocubes. <i>Journal of Catalysis</i> , 2020, 385, 246-254.	3.1	17
24	Dispersing transition metal vacancies in layered double hydroxides by ionic reductive complexation extraction for efficient water oxidation. <i>Chemical Science</i> , 2019, 10, 8354-8359.	3.7	54
25	Freeing the Polarons to Facilitate Charge Transport in BiVO_4 from Oxygen Vacancies with an Oxidative 2D Precursor. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19087-19095.	7.2	64
26	Freeing the Polarons to Facilitate Charge Transport in BiVO_4 from Oxygen Vacancies with an Oxidative 2D Precursor. <i>Angewandte Chemie</i> , 2019, 131, 19263-19271.	1.6	21
27	One-pot synthesis of manganese oxides and cobalt phosphides nanohybrids with abundant heterointerfaces in an amorphous matrix for efficient hydrogen evolution in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22530-22538.	5.2	32
28	Switchable Skeletal Rearrangement of Dihydroisobenzofuran Acetals with Indoles. <i>Organic Letters</i> , 2019, 21, 4313-4317.	2.4	9
29	Understanding the Diverse Coordination Modes of Thiocyanate Anion on Solid Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9282-9291.	1.5	10
30	Spacer layer design for efficient fully printable mesoscopic perovskite solar cells. <i>RSC Advances</i> , 2019, 9, 29840-29846.	1.7	14
31	Excess Cesium Iodide Induces Spinodal Decomposition of CsPb_2Br Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 194-199.	2.1	69
32	Recent advances in transition metal-based catalysts with heterointerfaces for energy conversion and storage. <i>Materials Today Chemistry</i> , 2019, 11, 16-28.	1.7	72
33	DFT Studies on the Reactions of Boroles with Alkynes. <i>Chemistry - A European Journal</i> , 2018, 24, 9612-9621.	1.7	24
34	Effects of Metal Combinations on the Electrocatalytic Properties of Transition-Metal-Based Layered Double Hydroxides for Water Oxidation: A Perspective with Insights. <i>ACS Omega</i> , 2018, 3, 16529-16541.	1.6	42
35	Surprising Effects upon Inserting Benzene Units into a Quaterthiophene-Based Polymer: Improving Non-Fullerene Organic Solar Cells via Donor Polymer Design. <i>Advanced Energy Materials</i> , 2017, 7, 1602304.	10.2	57
36	Regioselective Synthesis of Polycyclic and Heptagon-Embedded Aromatic Compounds through a Versatile C-C Extension of Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7166-7170.	7.2	108

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37	A Wide-Bandgap Donor Polymer for Highly Efficient Non-fullerene Organic Solar Cells with a Small Voltage Loss. <i>Journal of the American Chemical Society</i> , 2017, 139, 6298-6301.	6.6	327
38	DFT Studies of Dimerization Reactions of Boroles. <i>Chemistry - A European Journal</i> , 2017, 23, 11587-11597.	1.7	11
39	DFT Studies of Ru-Catalyzed C=O versus C-H Bond Functionalization of Aryl Ethers with Organoboronates. <i>Organometallics</i> , 2017, 36, 2354-2363.	1.1	20
40	Regioselective Synthesis of Polycyclic and Heptagon-embedded Aromatic Compounds through a Versatile C-C Extension of Aryl Halides. <i>Angewandte Chemie</i> , 2017, 129, 7272-7276.	1.6	31
41	DFT studies on reactions of boroles with carbon monoxide. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7019-7027.	1.5	12
42	Highly Enantioselective Rhodium-Catalyzed Addition of Arylboroxines to Simple Aryl Ketones: Efficient Synthesis of Escitalopram. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4527-4531.	7.2	73
43	Synthesis and fluxional behaviour of novel chloroborole dimers. <i>Chemical Communications</i> , 2016, 52, 9707-9710.	2.2	23
44	Organocatalytic Asymmetric Synthesis of 1,1-Diarylethanes by Transfer Hydrogenation. <i>Journal of the American Chemical Society</i> , 2015, 137, 383-389.	6.6	262