

# Linzhou Zhuang

## List of Publications by Year in descending order

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53  
papers

4,588  
citations

136950

32  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

5699  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metal-Organic Framework Classes for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	41
2	Single Carbon Vacancy Traps Atomic Platinum for Hydrogen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 2171-2178.	13.7	140
3	Structural Buffer Engineering on Metal Oxide for Long-Term Stable Seawater Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	64
4	Defective Fe Metal-Organic Frameworks Enhance Metabolic Profiling for High-Accuracy Diagnosis of Human Cancers. <i>Advanced Materials</i> , 2022, 34, e2201422.	21.0	39
5	Recent Advances on Hydrogen Evolution and Oxygen Evolution Catalysts for Direct Seawater Splitting. <i>Coatings</i> , 2022, 12, 659.	2.6	14
6	Multiscale Engineering of Nonprecious Metal Electrocatalyst for Realizing Ultrastable Seawater Splitting in Weakly Alkaline Solution. <i>Advanced Science</i> , 2022, 9, .	11.2	23
7	Phase and morphology engineering of porous cobalt-copper sulfide as a bifunctional oxygen electrode for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18329-18337.	10.3	14
8	Defect engineering and characterization of active sites for efficient electrocatalysis. <i>Nanoscale</i> , 2021, 13, 3327-3345.	5.6	60
9	Novel Ag-AgBr decorated composite membrane for dye rejection and photodegradation under visible light. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 892-901.	4.4	8
10	Beyond Platinum: Defects Abundant CoP <sub>3</sub> /Ni <sub>2</sub> P Heterostructure for Hydrogen Evolution Electrocatalysis. <i>Small Science</i> , 2021, 1, 2000027.	9.9	32
11	Porous Structure Engineering of Iridium Oxide Nanoclusters on Atomic Scale for Efficient pH-Universal Overall Water Splitting. <i>Small</i> , 2021, 17, e2100121.	10.0	40
12	Cobalt Electrochemical Recovery from Lithium Cobalt Oxides in Deep Eutectic Choline Chloride+Urea Solvents. <i>ChemSusChem</i> , 2021, 14, 2972-2983.	6.8	33
13	Sulfur-Modified Oxygen Vacancies in Iron-Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. <i>Angewandte Chemie</i> , 2020, 132, 14772-14778.	2.0	89
14	Sulfur-Modified Oxygen Vacancies in Iron-Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14664-14670.	13.8	178
15	Multiple Vacancies on (111) Facets of Single-Crystal NiFe <sub>2</sub> O <sub>4</sub> Spinel Boost Electrocatalytic Oxygen Evolution Reaction. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3995-3999.	3.3	23
16	Gradient-Concentration Design of Stable Core-Shell Nanostructure for Acidic Oxygen Reduction Electrocatalysis. <i>Advanced Materials</i> , 2020, 32, e2003493.	21.0	79
17	Understanding the Activity of Co <sub>4</sub> C <sub>x</sub> in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 6178-6183.	2.0	47
18	Understanding the Activity of Co <sub>4</sub> C <sub>x</sub> in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6122-6127.	13.8	156

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19	One-step In-situ Synthesis of Vacancy-rich CoFe <sub>2</sub> O <sub>4</sub> @Defective Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 479-487.	2.6	20
20	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 13699-13706.	2.0	64
21	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13565-13572.	13.8	205
22	InnenrÄ¼cktitelbild: Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction (Angew. Chem. 28/2019). <i>Angewandte Chemie</i> , 2019, 131, 9749-9749.	2.0	0
23	Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metal-Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44300-44307.	8.0	53
24	Microcrystalline cellulose-derived porous carbons with defective sites for electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22579-22587.	10.3	25
25	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019, 2, 688-695.	34.4	423
26	Strontium-doped lanthanum iron nickelate oxide as highly efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 813-819.	9.4	18
27	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 9504-9508.	2.0	10
28	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9404-9408.	13.8	87
29	Defect-Induced Pt-Co-Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygen-Involving Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1805581.	21.0	168
30	Synthesis of nitrogen-rich hollow microspheres for CO <sub>2</sub> adsorption. <i>Journal of Materials Science</i> , 2019, 54, 3805-3816.	3.7	8
31	Atomic Cobalt on Defective Bimodal Mesoporous Carbon toward Efficient Oxygen Reduction for Zinc-Air Batteries. <i>Small Methods</i> , 2019, 3, 1800450.	8.6	45
32	Defective Carbons Derived from Macadamia Nut Shell Biomass for Efficient Oxygen Reduction and Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 1874-1879.	3.4	47
33	Silanol-rich platelet silica modified with branched amine for efficient CO <sub>2</sub> capture. <i>Chemical Engineering Science</i> , 2018, 181, 315-325.	3.8	35
34	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. <i>Nano Research</i> , 2018, 11, 3509-3518.	10.4	167
35	Controlled Synthesis and Aminating of Poly(melamine)-Paraformaldehyde Mesoporous Resin for CO <sub>2</sub> Adsorption. <i>Energy &amp; Fuels</i> , 2018, 32, 12772-12779.	5.1	7
36	Plasma-Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16421-16425.	13.8	120

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37	Plasma-Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. <i>Angewandte Chemie</i> , 2018, 130, 16659-16663.	2.0	31
38	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. <i>IScience</i> , 2018, 7, 145-153.	4.1	39
39	Coordination of Atomic Co-Pt Coupling Species at Carbon Defects as Active Sites for Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 10757-10763.	13.7	464
40	Ultrathin Iron-Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2017, 29, 1606793.	21.0	1,144
41	Efficient water oxidation with amorphous transition metal boride catalysts synthesized by chemical reduction of metal nitrate salts at room temperature. <i>RSC Advances</i> , 2017, 7, 32923-32930.	3.6	27
42	Preparation and Properties of A Hyperbranch-Structured Polyamine adsorbent for Carbon Dioxide Capture. <i>Scientific Reports</i> , 2017, 7, 3913.	3.3	39
43	Rapid synthesis of tunable-structured short-pore SBA-15 and its application on CO <sub>2</sub> capture. <i>Journal of Porous Materials</i> , 2016, 23, 529-537.	2.6	15
44	Structure design of a hyperbranched polyamine adsorbent for CO <sub>2</sub> adsorption. <i>Green Chemistry</i> , 2016, 18, 5859-5869.	9.0	54
45	Solid Amine Adsorbent Prepared by Molecular Imprinting and Its Carbon Dioxide Adsorption Properties. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3055-3061.	3.3	12
46	The oxidation of viscose fiber optimized by response surface methodology and its further amination with PEI for CO <sub>2</sub> adsorption. <i>Cellulose</i> , 2016, 23, 2539-2548.	4.9	36
47	Preparation and characterization of amine-functionalized sugarcane bagasse for CO <sub>2</sub> capture. <i>Journal of Environmental Management</i> , 2016, 168, 142-148.	7.8	44
48	Establishment of a novel surface-imprinting system for melamine recognition and mechanism of template-matrix interactions. <i>Journal of Materials Science</i> , 2014, 49, 2853-2863.	3.7	7
49	In-situ preparation of porous carbon-supported molybdenum dioxide and its performance in the oxidative desulfurization of thiophene. <i>Journal of Materials Science</i> , 2014, 49, 5606-5616.	3.7	22
50	Preparation of a surface molecularly imprinted fiber for bisphenol a recognition. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	5
51	Preparation of a solid amine adsorbent based on polypropylene fiber and its performance for CO <sub>2</sub> capture. <i>Journal of Materials Research</i> , 2013, 28, 2881-2889.	2.6	39
52	Preparation of a sulfonated activated carbon fiber catalyst with $\gamma$ -irradiation-induced grafting method. <i>Journal of Materials Research</i> , 2012, 27, 3083-3089.	2.6	20
53	Mechanochemically Synthesised Flexible Electrodes based on Bimetallic Metal-Organic Framework Glasses for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 0, , .	2.0	7