

Mengran Li

List of Publications by Year in descending order

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126907

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docs citations

65
times ranked

5317
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , 2020, 11, 2002.	12.8	366
3	Advances and challenges in electrochemical CO ₂ reduction processes: an engineering and design perspective looking beyond new catalyst materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1511-1544.	10.3	305
4	Gas diffusion electrodes (GDEs) for electrochemical reduction of carbon dioxide, carbon monoxide, and dinitrogen to value-added products: a review. <i>Energy and Environmental Science</i> , 2021, 14, 1959-2008.	30.8	243
5	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
6	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C. <i>Nature Communications</i> , 2017, 8, 13990.	12.8	180
7	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
8	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
9	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021, 17, e2101573.	10.0	128
10	The role of electrode wettability in electrochemical reduction of carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19369-19409.	10.3	95
11	Use of FTIR, XPS, NMR to characterize oxidative effects of NaClO on coal molecular structures. <i>International Journal of Coal Geology</i> , 2019, 201, 1-13.	5.0	90
12	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
13	Cation-Driven Increases of CO ₂ Utilization in a Bipolar Membrane Electrode Assembly for CO ₂ Electrolysis. <i>ACS Energy Letters</i> , 2021, 6, 4291-4298.	17.4	88
14	Electrochemical CO ₂ reduction in membrane-electrode assemblies. <i>CheM</i> , 2022, 8, 663-692.	11.7	86
15	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO ₂ reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119945.	20.2	77
16	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient CO ₂ Reduction to Formate by Controlled Surface Sn Electrodeposition. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21670-21681.	8.0	69
17	Defunctionalization of fructose and sucrose: Iron-catalyzed production of 5-hydroxymethylfurfural from fructose and sucrose. <i>Catalysis Today</i> , 2011, 175, 524-527.	4.4	65
18	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

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19	Toward Excellence of Transition Metal-Based Catalysts for CO ₂ Electrochemical Reduction: An Overview of Strategies and Rationales. <i>Small Methods</i> , 2020, 4, 2000033.	8.6	60
20	Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metal-Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44300-44307.	8.0	53
21	A comparative study of SrCo _{0.8} Nb _{0.2} O _{3-δ} and SrCo _{0.8} Ta _{0.2} O _{3-δ} as low-temperature solid oxide fuel cell cathodes: effect of non-geometry factors on the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24064-24070.	10.3	52
22	Comparative Studies of SrCo _{1-x} Ta _x O _{3-δ} ($x=0.05-0.4$) Oxides as Cathodes for Low-Temperature Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , 2015, 2, 1331-1338.	3.4	50
23	Computational Design and Experimental Validation of the Optimal Bimetal-Doped SrCoO _{3-δ} Perovskite as Solid Oxide Fuel Cell Cathode. <i>Journal of the American Chemical Society</i> , 2021, 143, 9507-9514.	13.7	48
24	SrCo _{0.85} Fe _{0.1} P _{0.05} O _{3-δ} perovskite as a cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13632.	10.3	46
25	A facile method to synthesize boron-doped Ni/Fe alloy nano-chains as electrocatalyst for water oxidation. <i>Journal of Power Sources</i> , 2017, 349, 68-74.	7.8	45
26	Interfacial engineering of a polymer-MOF composite by <i>in situ</i> vitrification. <i>Chemical Communications</i> , 2020, 56, 3609-3612.	4.1	43
27	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metal-Organic Framework Glasses for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	41
28	Sc and Ta-doped SrCoO _{3-δ} perovskite as a high-performance cathode for solid oxide fuel cells. <i>Composites Part B: Engineering</i> , 2019, 178, 107491.	12.0	40
29	Orientated growth of copper-based MOF for acetylene storage. <i>Chemical Engineering Journal</i> , 2019, 357, 320-327.	12.7	36
30	Modulated Sn Oxidation States over a Cu ₂ O-Derived Substrate for Selective Electrochemical CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22760-22770.	8.0	36
31	In Situ Tetraethoxysilane-Templated Porous Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} Perovskite for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2015, 2, 200-203.	3.4	35
32	Enhancing Oxygen Reduction Reaction Activity and CO ₂ Tolerance of Cathode for Low-Temperature Solid Oxide Fuel Cells by <i>in situ</i> Formation of Carbonates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26909-26919.	8.0	35
33	Perovskite Cathode Materials for Low-Temperature Solid Oxide Fuel Cells: Fundamentals to Optimization. <i>Electrochemical Energy Reviews</i> , 2022, 5, 263-311.	25.5	35
34	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO ₂ electrochemical reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120538.	20.2	35
35	Highly CO ₂ -Tolerant Cathode for Intermediate-Temperature Solid Oxide Fuel Cells: Samarium-Doped Ceria-Protected SrCo _{0.85} Ta _{0.15} O _{3-δ} Hybrid. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2326-2333.	8.0	33
36	Cobalt Electrochemical Recovery from Lithium Cobalt Oxides in Deep Eutectic Choline Chloride+Urea Solvents. <i>ChemSusChem</i> , 2021, 14, 2972-2983.	6.8	33

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37	Recent development on perovskite-type cathode materials based on SrCoO ₃ parent oxide for intermediate-temperature solid oxide fuel cells. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 370-381.	1.5	32
38	Bulk and Surface Properties Regulation of Single/Double Perovskites to Realize Enhanced Oxygen Evolution Reactivity. <i>ChemSusChem</i> , 2020, 13, 3045-3052.	6.8	32
39	Effects of microporous layer on electrolyte flooding in gas diffusion electrodes and selectivity of CO ₂ electrolysis to CO. <i>Journal of Power Sources</i> , 2022, 522, 230998.	7.8	31
40	Catalyst-Electrolyte Interactions in Aqueous Reine Solutions for Highly Selective Electrochemical CO ₂ Reduction. <i>ChemSusChem</i> , 2020, 13, 304-311.	6.8	29
41	Nonstoichiometric perovskite for enhanced catalytic oxidation through excess A-site cation. <i>Chemical Engineering Science</i> , 2020, 219, 115596.	3.8	26
42	Regulating the reaction zone of electrochemical CO ₂ reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121362.	20.2	21
43	CO ₂ Electrolysis via Surface-Engineering Electrografted Pyridines on Silver Catalysts. <i>ACS Catalysis</i> , 2022, 12, 7862-7876.	11.2	21
44	Unveiling the effects of dimensionality of tin oxide-derived catalysts on CO ₂ reduction by using gas-diffusion electrodes. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 345-352.	3.7	20
45	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
46	Crystal Facet Engineering of Copper-Based Metal-Organic Frameworks with Inorganic Modulators. <i>Crystal Growth and Design</i> , 2021, 21, 926-934.	3.0	16
47	Coking-resistant Ce _{0.8} Ni _{0.2} O _{2-δ} internal reforming layer for direct methane solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018, 282, 402-408.	5.2	14
48	Low-temperature Synthesis of Hierarchical Amorphous Basic Nickel Carbonate Particles for Water Oxidation Catalysis. <i>ChemSusChem</i> , 2015, 8, 2193-2197.	6.8	11
49	Evaluation of SrCo _{0.8} Nb _{0.2} O _{3-δ} , SrCo _{0.8} Ta _{0.2} O _{3-δ} and SrCo _{0.8} Nb _{0.1} Ta _{0.1} O _{3-δ} as air electrode materials for solid oxide electrolysis and reversible solid oxide cells. <i>Electrochimica Acta</i> , 2019, 321, 134654.	5.2	10
50	Morphology control of metal-organic frameworks by Co-competitive coordination strategy for low-temperature selective catalytic reduction of NO with NH ₃ . <i>Journal of Solid State Chemistry</i> , 2021, 297, 122031.	2.9	10
51	Rupture distance and shape of the liquid bridge with rough surface. <i>Minerals Engineering</i> , 2021, 167, 106888.	4.3	10
52	Mitigating the Agglomeration of Nanofiller in a Mixed Matrix Membrane by Incorporating an Interface Agent. <i>Membranes</i> , 2021, 11, 328.	3.0	9
53	Unveiling Lithium Roles in Cobalt-Free Cathodes for Efficient Oxygen Reduction Reaction below 600 °C. <i>ChemElectroChem</i> , 2019, 6, 5340-5348.	3.4	8
54	Mechanochemically Synthesised Flexible Electrodes based on Bimetallic Metal-Organic Framework Glasses for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 0, , .	2.0	7

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55	Understanding the Effects of Anion Interactions with Ag Electrodes on Electrochemical CO ₂ Reduction in Choline Halide Electrolytes. ChemSusChem, 2021, 14, 2601-2611.	6.8	5
56	Physicochemical and thermodynamic properties of aqueous blends of 3-aminopropyl triethoxysilane and amines at 298.15–333.15 K. Journal of Molecular Liquids, 2021, 332, 115440.	4.9	4
57	Microwave plasma rapid heating towards robust cathode/electrolyte interface for solid oxide fuel cells. Journal of Colloid and Interface Science, 2022, 607, 53-60.	9.4	4
58	Catalyst-Electrolyte Interactions in Aqueous Reline Solutions for Highly Selective Electrochemical CO ₂ Reduction. ChemSusChem, 2020, 13, 282-282.	6.8	2
59	Modifying Catalyst-Electrolyte Interactions for Enhanced Electrochemical CO ₂ Reduction. ECS Meeting Abstracts, 2020, MA2020-01, 1518-1518.	0.0	0