Yinlong Zhu

List of Publications by Year
in descending order

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73	7,373	57758	74163
papers	citations	44 h-index	75 g-index

81	81	81	6789
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cationâ€Deficiencyâ€Dependent CO₂ Electroreduction over Copperâ€Based Ruddlesdenâ€“Popper Perovskite Oxides. Angewandte Chemie - International Edition, 2022, 61, .	13.8	33
2	Cationâ€Deficiencyâ€Dependent CO2 Electroreduction over Copperâ€Based Ruddlesdenâ€Popper Perovskite Oxides. Angewandte Chemie, 2022, 134, e202111670.	2.0	0
3	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis. Nature Communications, 2022, 13, 1189.	12.8	122
4	Ultrafast rectifying counter-directional transport of proton and metal ions in metal-organic frameworkâ€“based nanochannels. Science Advances, 2022, 8, eabl5070.	10.3	48
5	Highâ€Efficiency Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction Enabled by a Tungsten Single Atom Catalyst with Unique Terdentate N₁O₂ Coordination. Advanced Functional Materials, 2022, 32, .	14.9	55
6	Realizing High and Stable Electrocatalytic Oxygen Evolution for Ironâ€Based Perovskites by Coâ€Dopingâ€Induced Structural and Electronic Modulation. Advanced Functional Materials, 2022, 32, .	14.9	28
7	Metalâ€“Organic Frameworks as a Subnanometer Platform for Ionâ€“Ion Selectivity. Accounts of Materials Research, 2022, 3, 735-747.	11.7	9
8	Atomic cerium modulated palladium nanoclusters exsolved ferrite catalysts for lean methane conversion. Exploration, 2022, 2, .	11.0	5
9	Robust bifunctional phosphorus-doped perovskite oxygen electrode for reversible proton ceramic electrochemical cells. Chemical Engineering Journal, 2022, 450, 137787.	12.7	23
10	Chlorine-anion doping induced multi-factor optimization in perovskties for boosting intrinsic oxygen evolution. Journal of Energy Chemistry, 2021, 52, 115-120.	12.9	69
11	Ultraselective Monovalent Metal Ion Conduction in a Three-Dimensional Sub-1 nm Nanofluidic Device Constructed by Metalâ€“Organic Frameworks. ACS Nano, 2021, 15, 1240-1249.	14.6	52
12	A General Strategy to Boost Electrocatalytic Nitrogen Reduction on Perovskite Oxides via the Oxygen Vacancies Derived from Aâ€Site Deficiency. Advanced Energy Materials, 2021, 11, 2003799.	19.5	86
13	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. Applied Physics Reviews, 2021, 8, .	11.3	20
14	Structural Anisotropy Determining the Oxygen Evolution Mechanism of Strongly Correlated Perovskite Nickelate Electrocatalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 4262-4270.	6.7	26
15	Emerging Homochiral Porous Materials for Enantiomer Separation. Advanced Functional Materials, 2021, 31, 2101335.	14.9	43
16	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. Chemistry of Materials, 2021, 33, 5233-5241.	6.7	32
17	Tuning Reconstruction Level of Precatalysts to Design Advanced Oxygen Evolution Electrocatalysts. Molecules, 2021, 26, 5476.	3.8	14
18	Noble-metal single-atoms in thermocatalysis, electrocatalysis, and photocatalysis. Energy and Environmental Science, 2021, 14, 2954-3009.	30.8	188

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19	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Latticeâ€Oxygen Active Sites in a Complex Oxide. Advanced Materials, 2020, 32, e1905025.	21.0	190
20	Porous 2D carbon nanosheets synthesized via organic groups triggered polymer particles exfoliation: An effective cathode catalyst for polymer electrolyte membrane fuel cells. Electrochimica Acta, 2020, 332, 135397.	5.2	10
21	Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. IScience, 2020, 23, 100761.	4.1	26
22	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. Matter, 2020, 3, 2124-2137.	10.0	177
23	Efficient Water Splitting Actualized through an Electrochemistryâ€Induced Heteroâ€Structured Antiperovskite/(Oxy)Hydroxide Hybrid. Small, 2020, 16, e2006800.	10.0	36
24	Toward Reducing the Operation Temperature of Solid Oxide Fuel Cells: Our Past 15 Years of Efforts in Cathode Development. Energy & Fuels, 2020, 34, 15169-15194.	5.1	152
25	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. Energy and Environmental Science, 2020, 13, 3361-3392.	30.8	370
26	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. Nature Communications, 2020, 11, 5657.	12.8	134
27	Sulfonated Sub-1-nm Metalâ€“Organic Framework Channels with Ultrahigh Proton Selectivity. Journal of the American Chemical Society, 2020, 142, 9827-9833.	13.7	41
28	Effect of Anion Species on Ion Current Rectification Properties of Positively Charged Nanochannels. ACS Applied Materials & Interfaces, 2020, 12, 28915-28922.	8.0	21
29	RuCo alloy bimodal nanoparticles embedded in N-doped carbon: a superior pH-universal electrocatalyst outperforms benchmark Pt for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 12810-12820.	10.3	69
30	Boosting oxygen evolution reaction by activation of latticeâ€oxygen sites in layered Ruddlesdenâ€Popper oxide. EcoMat, 2020, 2, e12021.	11.9	58
31	The Origin of the Electrocatalytic Activity for CO₂ Reduction Associated with Metalâ€Organic Frameworks. ChemSusChem, 2020, 13, 2552-2556.	6.8	17
32	Simultaneously Tuning Charge Separation and Oxygen Reduction Pathway on Graphitic Carbon Nitride by Polyethylenimine for Boosted Photocatalytic Hydrogen Peroxide Production. ACS Catalysis, 2020, 10, 3697-3706.	11.2	275
33	Boosting the oxygen evolution catalytic performance of perovskites via optimizing calcination temperature. Journal of Materials Chemistry A, 2020, 8, 6480-6486.	10.3	32
34	Selfâ€Assembled Ruddlesdenâ€“Popper/Perovskite Hybrid with Latticeâ€Oxygen Activation as a Superior Oxygen Evolution Electrocatalyst. Small, 2020, 16, e2001204.	10.0	61
35	Superâ€Exchange Interaction Induced Overall Optimization in Ferromagnetic Perovskite Oxides Enables Ultrafast Water Oxidation. Small, 2019, 15, e1903120.	10.0	67
36	Unusual synergistic effect in layered Ruddlesdenâ^'Popper oxide enables ultrafast hydrogen evolution. Nature Communications, 2019, 10, 149.	12.8	187

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37	Voltage-Gated Ion Transport in Two-Dimensional Sub-1 nm Nanofluidic Channels. ACS Nano, 2019, 13, 11793-11799.	14.6	89
38	One-dimensional CoS₂â€“MoS₂ nano-flakes decorated MoO₂ sub-micro-wires for synergistically enhanced hydrogen evolution. Nanoscale, 2019, 11, 3500-3505.	5.6	31
39	Perovskites: Realizing Ultrafast Oxygen Evolution by Introducing Proton Acceptor into Perovskites (Adv. Energy Mater. 20/2019). Advanced Energy Materials, 2019, 9, 1970071.	19.5	7
40	Pyrite-type ruthenium disulfide with tunable disorder and defects enables ultra-efficient overall water splitting. Journal of Materials Chemistry A, 2019, 7, 14222-14232.	10.3	50
41	Realizing Ultrafast Oxygen Evolution by Introducing Proton Acceptor into Perovskites. Advanced Energy Materials, 2019, 9, 1900429.	19.5	76
42	Enabling High and Stable Electrocatalytic Activity of Ironâ€Based Perovskite Oxides for Water Splitting by Combined Bulk Doping and Morphology Designing. Advanced Materials Interfaces, 2019, 6, 1801317.	3.7	87
43	Synergistically enhanced hydrogen evolution electrocatalysis by in situ exsolution of metallic nanoparticles on perovskites. Journal of Materials Chemistry A, 2018, 6, 13582-13587.	10.3	85
44	New Phosphorusâ€Doped Perovskite Oxide as an Oxygen Reduction Reaction Electrocatalyst in an Alkaline Solution. Chemistry - A European Journal, 2018, 24, 6950-6957.	3.3	34
45	Systematic Study of Oxygen Evolution Activity and Stability on La_{1â€“x}Sr_xFeO_{3â^Î´} Perovskite Electrocatalysts in Alkaline Media. ACS Applied Materials & Interfaces, 2018, 10, 11715-11721.	8.0	173
46	Frontispiece: New Phosphorus-Doped Perovskite Oxide as an Oxygen Reduction Reaction Electrocatalyst in an Alkaline Solution. Chemistry - A European Journal, 2018, 24, .	3.3	0
47	Silver-Perovskite Hybrid Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media. Journal of the Electrochemical Society, 2018, 165, H524-H529.	2.9	12
48	High-performance non-enzymatic perovskite sensor for hydrogen peroxide and glucose electrochemical detection. Sensors and Actuators B: Chemical, 2017, 244, 482-491.	7.8	82
49	Perovskite/Carbon Composites: Applications in Oxygen Electrocatalysis. Small, 2017, 13, 1603793.	10.0	277
50	Bâ€Site Cation Ordered Double Perovskites as Efficient and Stable Electrocatalysts for Oxygen Evolution Reaction. Chemistry - A European Journal, 2017, 23, 5722-5728.	3.3	61
51	Anion Doping: A New Strategy for Developing Highâ€Performance Perovskiteâ€Type Cathode Materials of Solid Oxide Fuel Cells. Advanced Energy Materials, 2017, 7, 1700242.	19.5	198
52	Na_{0.86}Co_{0.95}Fe_{0.05}O₂ Layered Oxide As Highly Efficient Water Oxidation Electrocatalyst in Alkaline Media. ACS Applied Materials & Interfaces, 2017, 9, 21587-21592.	8.0	21
53	A Perovskite Nanorod as Bifunctional Electrocatalyst for Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1602122.	19.5	369
54	Fructoseâ€Derived Hollow Carbon Nanospheres with Ultrathin and Ordered Mesoporous Shells as Cathodes in Lithiumâ€“Sulfur Batteries for Fast Energy Storage. Advanced Sustainable Systems, 2017, 1, 1700081.	5.3	27

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55	An Aurivillius Oxide Based Cathode with Excellent CO₂ Tolerance for Intermediateâ€Temperature Solid Oxide Fuel Cells. Angewandte Chemie, 2016, 128, 9134-9139.	2.0	14
56	An Aurivillius Oxide Based Cathode with Excellent CO₂ Tolerance for Intermediateâ€Temperature Solid Oxide Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 8988-8993.	13.8	61
57	Activity and Stability of Ruddlesdenâ€“Popperâ€Type La_{n+1}Ni_nO_{3n+1} (n=1, 2, 3, and â^ž) Electrocatalysts for Oxygen Reduction and Evolution Reactions in Alkaline Media. Chemistry - A European Journal, 2016, 22, 2719-2727.	3.3	90
58	Phosphorusâ€Doped Perovskite Oxide as Highly Efficient Water Oxidation Electrocatalyst in Alkaline Solution. Advanced Functional Materials, 2016, 26, 5862-5872.	14.9	271
59	Coâ€doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. Advanced Science, 2016, 3, 1500187.	11.2	245
60	Electrocatalysis: Coâ€doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction (Adv. Sci. 2/2016). Advanced Science, 2016, 3, .	11.2	1
61	Cobalt Oxide and Cobaltâ€Graphitic Carbon Coreâ€“Shell Based Catalysts with Remarkably High Oxygen Reduction Reaction Activity. Advanced Science, 2016, 3, 1600060.	11.2	109
62	Promotion of Oxygen Reduction by Exsolved Silver Nanoparticles on a Perovskite Scaffold for Low-Temperature Solid Oxide Fuel Cells. Nano Letters, 2016, 16, 512-518.	9.1	202
63	Enhancing Electrocatalytic Activity of Perovskite Oxides by Tuning Cation Deficiency for Oxygen Reduction and Evolution Reactions. Chemistry of Materials, 2016, 28, 1691-1697.	6.7	635
64	Graphene decorated with multiple nanosized active species as dual function electrocatalysts for lithium-oxygen batteries. Electrochimica Acta, 2016, 188, 718-726.	5.2	14
65	A Highâ€Performance Electrocatalyst for Oxygen Evolution Reaction: LiCo_{0.8}Fe_{0.2}O₂. Advanced Materials, 2015, 27, 7150-7155.	21.0	249
66	SrNb_{0.1}Co_{0.7}Fe_{0.2}O_{3â^’Î´} Perovskite as a Nextâ€Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. Angewandte Chemie - International Edition, 2015, 54, 3897-3901.	13.8	400
67	Probing CO2 reaction mechanisms and effects on the SrNb0.1Co0.9â^’xFexO3â^’Î´ cathodes for solid oxide fuel cells. Applied Catalysis B: Environmental, 2015, 172-173, 52-57.	20.2	93
68	Modified template synthesis and electrochemical performance of a Co₃O₄/mesoporous cathode for lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 16132-16141.	10.3	31
69	Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. Chemistry of Materials, 2015, 27, 3048-3054.	6.7	117
70	A Universal and Facile Way for the Development of Superior Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions Utilizing the Synergistic Effect. Chemistry - A European Journal, 2014, 20, 15533-15542.	3.3	87
71	Influence of crystal structure on the electrochemical performance of A-site-deficient Sr_{1â^’s}Nb_{0.1}Co_{0.9}O_{3â^’Î´} perovskite cathodes. RSC Advances, 2014, 4, 40865-40872.	3.6	40
72	High-performance SrNb_{0.1}Co_{0.9â^’x}Fe_xO_{3â^’Î´}perovskite cathodes for low-temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 15454-15462.	10.3	71

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73	An Aâ€Siteâ€Deficient Perovskite offers High Activity and Stability for Lowâ€Temperature Solidâ€Oxide Fuel Cells. ChemSusChem, 2013, 6, 2249-2254.	6.8	90