Wei Zhou

List of Publications by Year
in descending order

414 papers	33,535 citations	1567 100 h-index	4263 163 g-index
434 all docs	434 docs citations	434 times ranked	24199 citing authors

#	Article	IF	Citations
1	New Strategy for Boosting Cathodic Performance of Protonic Ceramic Fuel Cells Through Incorporating a Superior Hydronation Second Phase. Energy and Environmental Materials, 2024, 7, .	13.9	17
2	Ultra-thin nanohoneycomb porous CoMoO4 with excellent catalytic performance for water splitting at large current densities. Surfaces and Interfaces, 2024, 44, 103737.	3.2	0
3	Synergistic dual-phase air electrode enables high and durable performance of reversible proton ceramic electrochemical cells. Nature Communications, 2024, 15, .	14.1	25
4	Significantly improved stability and water retention for Pt supported on W-doped SnO₂ to catalyse the oxygen reduction reaction in proton exchange membrane fuel cells. Journal of Materials Chemistry A, 2024, 12, 10799-10807.	9.3	4
5	Strategies for improving oxygen ionic conducting in perovskite oxides and their practical applications. Energy Reviews, 2024, 3, 100085.	18.5	10
6	Active Cu and Fe Nanoparticles Codecorated Ruddlesdenâ€“Popperâ€Type Perovskite as Solid Oxide Electrolysis Cells Cathode for CO₂ Splitting. Energy and Environmental Materials, 2024, 7, .	13.9	3
7	Surface Reconstruction of La₂CuO₄ during the Electrochemical Reduction of Carbon Dioxide to Ethylene and Its Benefits for Enhanced Performance. ACS Applied Materials & Interfaces, 2024, 16, 31036-31044.	8.1	5
8	Advancements and prospects of perovskite-based fuel electrodes in solid oxide cells for CO₂ electrolysis to CO. Chemical Science, 2024, 15, 11166-11187.	7.5	9
9	Electrocatalytic selective oxygen evolution of FeOOH-modified perovskite for alkaline seawater electrolysis. Journal of Power Sources, 2024, 614, 235017.	8.0	4
10	Robust Cathode for Efficient CO₂ Electrolysis Driven by Entropy Engineering in Solid Oxide Electrolysis Cells. ACS Energy Letters, 2024, 9, 3818-3827.	17.5	7
11	A dynamically stable self-assembled CoFe (oxy)hydroxide-based nanocatalyst with boosted electrocatalytic performance for the oxygen-evolution reaction. Journal of Materials Chemistry A, 2024, 12, 24308-24317.	9.3	3
12	Garnet-Based Solid Li-Metal Batteries Operable under High External Pressure with HCOOH-Induced Electron-Blocking and Lithiophilic Interlayer. ACS Applied Materials & Interfaces, 2024, 16, 44997-45005.	8.1	2
13	In operandoâ€formed interface between silver and perovskite oxide for efficient electroreduction of carbon dioxide to carbon monoxide. , 2023, 5, .		5
14	In situ formation of selfâ€antistacking FeCoO_x on Nâ€doped graphene: A 3Dâ€onâ€2D nanoarchitecture for longâ€life Znâ€“air batteries. , 2023, 5, .		21
15	High Cationic Dispersity Boosted Oxygen Reduction Reactivity in Multiâ€Element Doped Perovskites. Advanced Functional Materials, 2023, 33, .	17.1	10
16	Enhanced Proton Conduction with Low Oxygen Vacancy Concentration and Favorable Hydration for Protonic Ceramic Fuel Cells Cathode. ACS Applied Materials & Interfaces, 2023, 15, 1339-1347.	8.1	23
17	Controlled tuning the morphology of CoNiP catalysts with ultra-high activity for water splitting at large current densities in alkaline medium. Applied Surface Science, 2023, 626, 157218.	6.6	20
18	Enhanced proton conductivity and CO2-tolerance of intermediate-temperature protonic ceramic fuel cell with lanthanum tungstate-based composite cathode. Composites Part B: Engineering, 2023, 253, 110565.	12.9	12

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19	CO2-induced reconstruction for ORR-enhanced solid oxide fuel cell cathode. Chemical Engineering Journal, 2023, 462, 142216.	11.9	18
20	Additive Engineering for Mixed Leadâ€“Tin Narrow-Band-Gap Perovskite Solar Cells: Recent Advances and Perspectives. Energy & Fuels, 2023, 37, 6401-6423.	5.3	16
21	CO2-induced in-situ surface reconfiguration of strontium cobaltite-based perovskite for accelerated oxygen reduction reaction. Applied Surface Science, 2023, 629, 157452.	6.6	3
22	Tailoring the surface cation configuration of Ruddlesdenâ€“Popper perovskites for controllable water oxidation performance. Energy and Environmental Science, 2023, 16, 3331-3338.	30.6	23
23	Engineering the oxygen-evolution activity by changing the A-site rare-earth elements in RSr₃Fe_{1.5}Co_{1.5}O_{10â^'Î´} (R = La, Nd, Pr) Ruddlesdenâ€“Popper perovskites. Materials Chemistry Frontiers, 2023, 7, 4526-4534.	6.2	7
24	Toward Selfâ€Supported Bifunctional Air Electrodes for Flexible Solidâ€State Znâ€“Air Batteries. Small Science, 2023, 3, .	7.9	8
25	In situ passivation of Fe nanoparticles exsolved from perovskite cathodes through zinc doping for CO₂ electrolysis. Green Chemistry, 2023, 25, 9826-9836.	9.3	11
26	Microwave plasma rapid heating towards robust cathode/electrolyte interface for solid oxide fuel cells. Journal of Colloid and Interface Science, 2022, 607, 53-60.	9.9	7
27	A simple strategy that may effectively tackle the anode-electrolyte interface issues in solid-state lithium metal batteries. Chemical Engineering Journal, 2022, 427, 131001.	11.9	47
28	Intrinsic vacancy suppression and band convergence to enhance thermoelectric performance of (Ge,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	11.9	25
29	Recent progresses and remaining issues on the ultrathin catalyst layer design strategy for high-performance proton exchange membrane fuel cell with further reduced Pt loadings: A review. International Journal of Hydrogen Energy, 2022, 47, 1529-1542.	9.2	30
30	Enhancing the photocatalytic activity of Ruddlesden-Popper Sr2TiO4 for hydrogen evolution through synergistic silver doping and moderate reducing pretreatment. Materials Today Energy, 2022, 23, 100899.	5.3	35
31	A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zincâ€“Air Batteries. Small, 2022, 18, .	11.6	20
32	Non-metal fluorine doping in Ruddlesdenâ€“Popper perovskite oxide enables high-efficiency photocatalytic water splitting for hydrogen production. Materials Today Energy, 2022, 23, 100896.	5.3	54
33	Selfâ€catalyzed formation of strongly interconnected multiphase molybdenumâ€based composites for efficient hydrogen evolution. , 2022, 4, 77-87.		60
34	SrCo0.4Fe0.4Zr0.1Y0.1O3-Î´, A new CO2 tolerant cathode for proton-conducting solid oxide fuel cells. Renewable Energy, 2022, 185, 8-16.	9.5	25
35	Sodium fluoride sacrificing layer concept enables high-efficiency and stable methylammonium lead iodide perovskite solar cells. Journal of Materials Science and Technology, 2022, 113, 138-146.	13.3	36
36	The BaCe_{0.16}Y_{0.04}Fe_{0.8}O_{3â^'Î´} nanocomposite: a new high-performance cobalt-free triple-conducting cathode for protonic ceramic fuel cells operating at reduced temperatures. Journal of Materials Chemistry A, 2022, 10, 5381-5390.	9.3	112

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37	Rational Design of a High-Durability Pt-Based ORR Catalyst Supported on Mn/N Codoped Carbon Sheets for PEMFCs. Energy & Fuels, 2022, 36, 1707-1715.	5.3	26
38	A New Durable Surface Nanoparticlesâ€Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere. Advanced Materials, 2022, 34, .	24.7	126
39	Cobalt nanoparticles encapsulated in iron and nitrogen co-doped urchin-like porous carbons as an efficient bifunctional oxygen reversible catalyst for Zn-air batteries. Chemical Engineering Journal, 2022, 436, 135191.	11.9	16
40	Single-atom catalysts for high-efficiency photocatalytic and photoelectrochemical water splitting: distinctive roles, unique fabrication methods and specific design strategies. Journal of Materials Chemistry A, 2022, 10, 6835-6871.	9.3	85
41	Transition-metal hydroxide nanosheets with peculiar double-layer structures as efficient electrocatalysts. Chem Catalysis, 2022, 2, 867-882.	9.2	14
42	A universal chemical-induced tensile strain tuning strategy to boost oxygen-evolving electrocatalysis on perovskite oxides. Applied Physics Reviews, 2022, 9, .	10.7	106
43	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis. Nature Communications, 2022, 13, .	14.1	231
44	Low thermal-expansion and high proton uptake for protonic ceramic fuel cell cathode. Journal of Power Sources, 2022, 530, 231321.	8.0	30
45	Engineering anion defect in perovskite oxyfluoride cathodes enables proton involved oxygen reduction reaction for protonic ceramic fuel cells. Separation and Purification Technology, 2022, 290, 120844.	8.8	28
46	Realizing High and Stable Electrocatalytic Oxygen Evolution for Ironâ€Based Perovskites by Coâ€Dopingâ€Induced Structural and Electronic Modulation. Advanced Functional Materials, 2022, 32, .	17.1	43
47	Realizing robust and efficient acidic oxygen evolution by electronic modulation of 0D/2D CeO2 quantum dots decorated SrIrO3 nanosheets. Applied Catalysis B: Environmental, 2022, 315, 121579.	20.3	52
48	Enhancing the bifunctional activity of CoSe2 nanocubes by surface decoration of CeO2 for advanced zinc-air batteries. Journal of Colloid and Interface Science, 2022, 625, 839-849.	9.9	19
49	Probing oxygen reduction and water uptake kinetics of BaCo0.4Fe0.4Zr0.1Y0.1-xZnxO3-Î´ cathodes for protonic ceramic fuel cells. Separation and Purification Technology, 2022, 297, 121482.	8.8	29
50	Perovskite-Carbon Joint Substrate for Practical Application in Proton Exchange Membrane Fuel Cells under Low-Humidity/High-Temperature Conditions. ACS Applied Materials & Interfaces, 2022, 14, 30872-30880.	8.1	7
51	A synergistic architecture design for functionally boosting the hydroxyl adsorption and charge transfer for the oxygen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 20787-20793.	9.3	7
52	Perovskite-based nanocomposites as high-performance air electrodes for protonic ceramic cells. Current Opinion in Green and Sustainable Chemistry, 2022, 38, 100711.	6.1	12
53	Improving Moisture/Thermal Stability and Efficiency of CH₃NH₃PbI₃â€Based Perovskite Solar Cells via Gentle Butyl Acrylate Additive Strategy. Solar Rrl, 2021, 5, .	4.7	22
54	A Highly Ordered Hydrophilicâ€“Hydrophobic Janus Biâ€Functional Layer with Ultralow Pt Loading and Fast Gas/Water Transport for Fuel Cells. Energy and Environmental Materials, 2021, 4, 126-133.	13.9	40

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55	Nickel-doped BaCo0.4Fe0.4Zr0.1Y0.1O3-Î´ as a new high-performance cathode for both oxygen-ion and proton conducting fuel cells. Chemical Engineering Journal, 2021, 420, 127717.	11.9	141
56	Cadmium sulfide quantum dots/dodecahedral polyoxometalates/oxygen-doped mesoporous graphite carbon nitride with Z-scheme and Type-II as tandem heterojunctions for boosting visible-light-driven photocatalytic performance. Journal of Colloid and Interface Science, 2021, 582, 752-763.	9.9	50
57	New perovskite membrane with improved sintering and self-reconstructed surface for efficient hydrogen permeation. Journal of Membrane Science, 2021, 620, 118980.	8.4	28
58	Towards highly stable and efficient planar perovskite solar cells: Materials development, defect control and interfacial engineering. Chemical Engineering Journal, 2021, 420, 127599.	11.9	41
59	Phase and morphology engineering of porous cobaltâ€“copper sulfide as a bifunctional oxygen electrode for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2021, 9, 18329-18337.	9.3	15
60	Self-Supported Nickel Phosphide Electrode for Efficient Alkaline Water-to-Hydrogen Conversion via Urea Electrolysis. Industrial & Engineering Chemistry Research, 2021, 60, 1185-1193.	4.0	45
61	Highâ€Quality Ruddlesdenâ€“Popper Perovskite Film Formation for Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2021, 33, .	24.7	214
62	Fast operando spectroscopy tracking in situ generation of rich defects in silver nanocrystals for highly selective electrochemical CO2 reduction. Nature Communications, 2021, 12, .	14.1	86
63	Designing Highâ€Valence Metal Sites for Electrochemical Water Splitting. Advanced Functional Materials, 2021, 31, .	17.1	248
64	Thermal reduction-assisted electronic structure tuning of perovskite oxide as catalyst for efficient advanced oxidation. Composites Part B: Engineering, 2021, 207, 108577.	12.9	13
65	Protective Effect of Blood Cora Polysaccharides on H9c2 Rat Heart Cells Injury Induced by Oxidative Stress by Activating Nrf2/HO-1 Signal Pathway. Frontiers in Nutrition, 2021, 8, .	4.4	10
66	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. Applied Physics Reviews, 2021, 8, .	10.7	27
67	Thermal-expansion offset for high-performance fuel cell cathodes. Nature, 2021, 591, 246-251.	40.1	424
68	Progress on X-ray Absorption Spectroscopy for the Characterization of Perovskite-Type Oxide Electrocatalysts. Energy & Fuels, 2021, 35, 5716-5737.	5.3	32
69	A New Pd Doped Proton Conducting Perovskite Oxide with Multiple Functionalities for Efficient and Stable Power Generation from Ammonia at Reduced Temperatures. Advanced Energy Materials, 2021, 11, .	22.7	70
70	Antiperovskite FeNNi2Co and FeNNi3 nanosheets as a non-enzymatic electrochemical sensor for highly sensitive detection of glucose. Journal of Electroanalytical Chemistry, 2021, 884, 115072.	3.9	8
71	In-situ exsolution of CoNi alloy nanoparticles on LiFe0.8Co0.1Ni0.1O2 parent: New opportunity for boosting oxygen evolution and reduction reaction. Applied Surface Science, 2021, 543, 148817.	6.6	28
72	A Direct n-Butane Solid Oxide Fuel Cell Using Ba(Zr_{0.1}Ce_{0.7}Y_{0.1}Yb_{0.1})_{0.9}Ni_{0.05}Ru_{0.05}O Perovskite as the Reforming Layer. ACS Applied Materials & Interfaces, 2021, 13, 20105-20113.	8.1	17

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73	Porous Structure Engineering of Iridium Oxide Nanoclusters on Atomic Scale for Efficient pHâ€Universal Overall Water Splitting. Small, 2021, 17, .	11.6	47
74	Cu-modified Ni foams as three-dimensional outer anodes for high-performance hybrid direct coal fuel cells. Chemical Engineering Journal, 2021, 410, 128239.	11.9	22
75	SrCo0.8Ti0.1Ta0.1O3-Î´ perovskite: A new highly active and durable cathode material for intermediate-temperature solid oxide fuel cells. Composites Part B: Engineering, 2021, 213, 108726.	12.9	54
76	Smart Construction of an Intimate Lithium | Garnet Interface for Allâ€Solidâ€State Batteries by Tuning the Tension of Molten Lithium. Advanced Functional Materials, 2021, 31, .	17.1	117
77	Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. Small, 2021, 17, .	11.6	160
78	Engineering Charge Redistribution within Perovskite Oxides for Synergistically Enhanced Overall Water Splitting. , 2021, 3, 1258-1265.		41
79	Activating Both Basal Plane and Edge Sites of Layered Cobalt Oxides for Boosted Water Oxidation. Advanced Functional Materials, 2021, 31, .	17.1	36
80	Recent Progress on Structurally Ordered Materials for Electrocatalysis. Advanced Energy Materials, 2021, 11, .	22.7	81
81	Rational Design of Superior Electrocatalysts for Water Oxidation: Crystalline or Amorphous Structure?. Small Science, 2021, 1, .	7.9	53
82	Tailoring charge and mass transport in cation/anion-codoped Ni3N / N-doped CNT integrated electrode toward rapid oxygen evolution for fast-charging zinc-air batteries. Energy Storage Materials, 2021, 39, 11-20.	18.0	51
83	Exceptionally Robust Faceâ€Sharing Motifs Enable Efficient and Durable Water Oxidation. Advanced Materials, 2021, 33, .	24.7	52
84	Ultrathin 2D catalysts with N-coordinated single Co atom outside Co cluster for highly efficient Zn-air battery. Chemical Engineering Journal, 2021, 421, 129719.	11.9	47
85	High activity and durability of a Ptâ€“Cuâ€“Co ternary alloy electrocatalyst and its large-scale preparation for practical proton exchange membrane fuel cells. Composites Part B: Engineering, 2021, 222, 109082.	12.9	36
86	Synergistic effects in ordered Co oxides for boosting catalytic activity in advanced oxidation processes. Applied Catalysis B: Environmental, 2021, 297, 120463.	20.3	39
87	A bilateral cyano molecule serving as an effective additive enables high-efficiency and stable perovskite solar cells. Journal of Energy Chemistry, 2021, 62, 243-251.	14.2	38
88	Exceptional lattice-oxygen participation on artificially controllable electrochemistry-induced crystalline-amorphous phase to boost oxygen-evolving performance. Applied Catalysis B: Environmental, 2021, 297, 120484.	20.3	55
89	Utilizing the charge-transfer model to design promising electrocatalysts. Current Opinion in Electrochemistry, 2021, 30, 100805.	4.7	5
90	Double perovskite Pr2CoFeO6 thermoelectric oxide: Roles of Sr-doping and Micro/nanostructuring. Chemical Engineering Journal, 2021, 425, 130668.	11.9	46

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91	Interface engineered perovskite oxides for enhanced catalytic oxidation: The vital role of lattice oxygen. Chemical Engineering Science, 2021, 245, 116944.	4.0	30
92	Benefitting from Synergistic Effect of Anion and Cation in Antimony Acetate for Stable CH₃NH₃PbI₃â€Based Perovskite Solar Cell with Efficiency Beyond 21%. Small, 2021, 17, .	11.6	35
93	First investigation of additive engineering for highly efficient Cs2AgBiBr6-based lead-free inorganic perovskite solar cells. Applied Physics Reviews, 2021, 8, .	10.7	38
94	Stabilizing Li Anodes in I₂ Steam to Tackle the Shuttling-Induced Depletion of an Iodide/Triiodide Redox Mediator in Liâ€“O₂ Batteries with Suppressed Li Dendrite Growth. ACS Applied Materials & Interfaces, 2021, 13, 53859-53867.	8.1	14
95	One Pot-Synthesized Ag/Ag-Doped CeO₂ Nanocomposite with Rich and Stable 3D Interfaces and Ce³⁺ for Efficient Carbon Dioxide Electroreduction. ACS Applied Materials & Interfaces, 2021, 13, 59993-60001.	8.1	16
96	Integrated Ultrafine Co_{0.85}Se in Carbon Nanofibers: An Efficient and Robust Bifunctional Catalyst for Oxygen Electrocatalysis. Chemistry - A European Journal, 2020, 26, 4063-4069.	3.5	29
97	Perowskitoxidâ€Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung. Angewandte Chemie, 2020, 132, 140-158.	1.5	9
98	Perovskite Oxide Based Electrodes for Highâ€Performance Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 136-152.	15.0	293
99	Utilization of low-concentration coal-bed gas to generate power using a core-shell catalyst-modified solid oxide fuel cell. Renewable Energy, 2020, 147, 602-609.	9.5	24
100	Scandium and phosphorus co-doped perovskite oxides as high-performance electrocatalysts for the oxygen reduction reaction in an alkaline solution. Journal of Materials Science and Technology, 2020, 39, 22-27.	13.3	28
101	Nanofluidic Behaviors of Water and Ions in Covalent Triazine Framework (CTF) Multilayers. Small, 2020, 16, .	11.6	29
102	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Latticeâ€Oxygen Active Sites in a Complex Oxide. Advanced Materials, 2020, 32, .	24.7	212
103	Postsynthesis Oxygen Nonstoichiometric Regulation: A New Strategy for Performance Enhancement of Perovskites in Advanced Oxidation. Industrial & Engineering Chemistry Research, 2020, 59, 99-109.	4.0	20
104	Highâ€Performance Platinumâ€Perovskite Composite Bifunctional Oxygen Electrocatalyst for Rechargeable Znâ€“Air Battery. Advanced Energy Materials, 2020, 10, .	22.7	108
105	NiCo2S4 spheres grown on N,S co-doped rGO with high sulfur vacancies as superior oxygen bifunctional electrocatalysts. Electrochimica Acta, 2020, 331, 135356.	5.4	43
106	Realizing stable high hydrogen permeation flux through BaCo0.4Fe0.4Zr0.1Y0.1O3-Î´ membrane using a thin Pd film protection strategy. Journal of Membrane Science, 2020, 596, 117709.	8.4	24
107	Direct-methane solid oxide fuel cells with an in situ formed Niâ€“Fe alloy composite catalyst layer over Niâ€“YSZ anodes. Renewable Energy, 2020, 150, 334-341.	9.5	35
108	Efficient Ferrite-Based Perovskite Anode for Solid Oxide Fuel Cells with A-Site and B-Site Co-exsolution. Energy & Fuels, 2020, 34, 10100-10108.	5.3	19

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109	Efficient Water Splitting Actualized through an Electrochemistryâ€Induced Heteroâ€Structured Antiperovskite/(Oxy)Hydroxide Hybrid. Small, 2020, 16, .	11.6	40
110	Zeolitic Imidazolate Framework-Derived Ordered Ptâ€“Fe Intermetallic Electrocatalysts for High-Performance Zn-Air Batteries. Energy & Fuels, 2020, 34, 11527-11535.	5.3	23
111	SrTiO3-based thermoelectrics: Progress and challenges. Nano Energy, 2020, 78, 105195.	16.3	176
112	High-Performance Proton-Conducting Fuel Cell with B-Site-Deficient Perovskites for All Cell Components. Energy & Fuels, 2020, 34, 11464-11471.	5.3	54
113	Emerging Strategies for Developing High-Performance Perovskite-Based Materials for Electrochemical Water Splitting. Energy & Fuels, 2020, 34, 10547-10567.	5.3	65
114	Ruddlesdenâ€“Popper Perovskite Oxides for Photocatalysis-Based Water Splitting and Wastewater Treatment. Energy & Fuels, 2020, 34, 9208-9221.	5.3	61
115	Understanding and Engineering of Multiphase Transport Processes in Membrane Electrode Assembly of Proton-Exchange Membrane Fuel Cells with a Focus on the Cathode Catalyst Layer: A Review. Energy & Fuels, 2020, 34, 9175-9188.	5.3	55
116	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.	5.3	199
117	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metalâ€“Support Interaction Boosts Photocatalysis. Small, 2020, 16, .	11.6	53
118	Recent Advances in Cs₂AgBiBr₆-Based Halide Double Perovskites as Lead-Free and Inorganic Light Absorbers for Perovskite Solar Cells. Energy & Fuels, 2020, 34, 10513-10528.	5.3	170
119	Tuning Nitrogen in Graphitic Carbon Nitride Enabling Enhanced Performance for Polysulfide Confinement in Liâ€“S Batteries. Energy & Fuels, 2020, 34, 11557-11564.	5.3	23
120	Enabling efficient hydrogen-evolution reaction over perovskite oxide electrocatalysts through phosphorus promotion. International Journal of Hydrogen Energy, 2020, 45, 24859-24869.	9.2	29
121	Exsolved Alloy Nanoparticles Decorated Ruddlesdenâ€“Popper Perovskite as Sulfur-Tolerant Anodes for Solid Oxide Fuel Cells. Energy & Fuels, 2020, 34, 11449-11457.	5.3	41
122	Organic Photochemistry-Assisted Nanoparticle Segregation on Perovskites. Cell Reports Physical Science, 2020, 1, 100243.	5.1	12
123	Achieving Safe and Dendrite-Suppressed Solid-State Li Batteries via a Novel Self-Extinguished Trimethyl Phosphate-Based Wetting Agent. Energy & Fuels, 2020, 34, 11547-11556.	5.3	20
124	Tuning the A-Site Cation Deficiency of La0.8Sr0.2FeO3â^Î´ Perovskite Oxides for High-Efficiency Triiodide Reduction Reaction in Dye-Sensitized Solar Cells. Energy & Fuels, 2020, 34, 11322-11329.	5.3	14
125	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. Energy and Environmental Science, 2020, 13, 3361-3392.	30.6	491
126	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. Nature Communications, 2020, 11, .	14.1	187

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127	Direct growth of ordered Nâ€doped carbon nanotube arrays on carbon fiber cloth as a freeâ€standing and binderâ€free air electrode for flexible quasiâ€solidâ€state rechargeable Znâ€Air batteries. , 2020, 2, 461-471.		72
128	A CO₂-tolerant SrCo_{0.8}Fe_{0.15}Zr_{0.05}O_{3â^Î´} cathode for proton-conducting solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 11292-11301.	9.3	57
129	Monoclinic SrIrO₃: An Easily Synthesized Conductive Perovskite Oxide with Outstanding Performance for Overall Water Splitting in Alkaline Solution. Chemistry of Materials, 2020, 32, 4509-4517.	6.9	85
130	High-performance metal-organic framework-perovskite hybrid as an important component of the air-electrode for rechargeable Zn-Air battery. Journal of Power Sources, 2020, 468, 228377.	8.0	50
131	A new highly active and CO2-stable perovskite-type cathode material for solid oxide fuel cells developed from A- and B-site cation synergy. Journal of Power Sources, 2020, 457, 227995.	8.0	39
132	Perovskite-Based Multifunctional Cathode with Simultaneous Supplementation of Substrates and Electrons for Enhanced Microbial Electrosynthesis of Organics. ACS Applied Materials & Interfaces, 2020, 12, 30449-30456.	8.1	30
133	Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Directâ€Ammonia Solid Oxide Fuel Cells. Small, 2020, 16, .	11.6	69
134	Turning Detrimental Effect into Benefits: Enhanced Oxygen Reduction Reaction Activity of Cobalt-Free Perovskites at Intermediate Temperature via CO₂-Induced Surface Activation. ACS Applied Materials & Interfaces, 2020, 12, 16417-16425.	8.1	24
135	Boosting oxygen evolution reaction by activation of latticeâ€oxygen sites in layered Ruddlesdenâ€Popper oxide. EcoMat, 2020, 2, .	11.8	65
136	A Selfâ€Assembled Heteroâ€Structured Inverseâ€Spinel and Antiâ€Perovskite Nanocomposite for Ultrafast Water Oxidation. Small, 2020, 16, .	11.6	45
137	Rich atomic interfaces between sub-1 nm RuOx clusters and porous Co3O4 nanosheets boost oxygen electrocatalysis bifunctionality for advanced Zn-air batteries. Energy Storage Materials, 2020, 32, 20-29.	18.0	96
138	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. Nature Communications, 2020, 11, .	14.1	159
139	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metalâ€“Air Batteries. Energy and Environmental Materials, 2020, 3, 121-145.	13.9	139
140	Water-proof, electrolyte-nonvolatile, and flexible Li-Air batteries via O2-Permeable silica-aerogel-reinforced polydimethylsiloxane external membranes. Energy Storage Materials, 2020, 27, 297-306.	18.0	72
141	Nonstoichiometric perovskite for enhanced catalytic oxidation through excess A-site cation. Chemical Engineering Science, 2020, 219, 115596.	4.0	34
142	In situ growth of nanoflake and nanoflower-like Ni hydrated hydroxide on the surface of Ni foam as a free-standing electrode for high-performance phosphate detection. Journal of Hazardous Materials, 2020, 392, 122313.	12.4	17
143	Oxygen vacancies-rich Ce0.9Gd0.1O2-Î´ decorated Pr0.5Ba0.5CoO3-Î´ bifunctional catalyst for efficient and long-lasting rechargeable Zn-air batteries. Applied Catalysis B: Environmental, 2020, 266, 118656.	20.3	101
144	Enhancing the oxygen reduction activity of PrBaCo2O5+Î´ double perovskite cathode by tailoring the calcination temperatures. International Journal of Hydrogen Energy, 2020, 45, 25996-26004.	9.2	28

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145	A Cobaltâ€Free Multiâ€Phase Nanocomposite as Nearâ€Ideal Cathode of Intermediateâ€Temperature Solid Oxide Fuel Cells Developed by Smart Selfâ€Assembly. Advanced Materials, 2020, 32, .	24.7	143
146	Promoting the Efficiency and Stability of CsPbIBr₂-Based All-Inorganic Perovskite Solar Cells through a Functional Cu²⁺ Doping Strategy. ACS Applied Materials & Interfaces, 2020, 12, 23984-23994.	8.1	73
147	Bulk and Surface Properties Regulation of Single/Double Perovskites to Realize Enhanced Oxygen Evolution Reactivity. ChemSusChem, 2020, 13, 3045-3052.	6.3	36
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