Zongping Shao

List of Publications by Year
in descending order

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694 papers	56,154 citations	1099 112 h-index	2571 195 g-index
720 all docs	720 docs citations	720 times ranked	30746 citing authors

#	Article	IF	Citations
1	Protonic ceramic materials for clean and sustainable energy: advantages and challenges. International Materials Reviews, 2023, 68, 272-300.	19.3	16
2	Electrochemical Water Splitting: Bridging the Gaps Between Fundamental Research and Industrial Applications. Energy and Environmental Materials, 2023, 6, .	12.8	89
3	Perovskite Oxides in Catalytic Combustion of Volatile Organic Compounds: Recent Advances and Future Prospects. Energy and Environmental Materials, 2022, 5, 751-776.	12.8	37
4	Electrodeposition of a dendriteâ€free 3D Al anode for improving cycling of an aluminumâ€“graphite battery. , 2022, 4, 155-169.		16
5	Electrochemistry and energy conversion features of protonic ceramic cells with mixed ionic-electronic electrolytes. Energy and Environmental Science, 2022, 15, 439-465.	30.8	108
6	Recent advances of metal telluride anodes for high-performance lithium/sodiumâ€“ion batteries. Materials Horizons, 2022, 9, 524-546.	12.2	32
7	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.	4.7	29
8	A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zincâ€“Air Batteries. Small, 2022, 18, e2105604.	10.0	18
9	Recent Advances in Bioâ€Compatible Oxygen Singlet Generation and Its Tumor Treatment. Advanced Therapeutics, 2022, 5, .	3.2	11
10	Selfâ€catalyzed formation of strongly interconnected multiphase molybdenumâ€based composites for efficient hydrogen evolution. , 2022, 4, 77-87.		45
11	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.	10.3	69
12	Boosting Electrocatalytic Activity of Single Atom Catalysts Supported on Nitrogenâ€Doped Carbon through N Coordination Environment Engineering. Small, 2022, 18, e2105329.	10.0	78
13	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.	5.1	22
14	A low resistance and stable lithium-garnet electrolyte interface enabled by a multifunctional anode additive for solid-state lithium batteries. Journal of Materials Chemistry A, 2022, 10, 2519-2527.	10.3	22
15	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. ACS Sustainable Chemistry and Engineering, 2022, 10, 1899-1909.	6.7	59
16	A New Durable Surface Nanoparticlesâ€Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere. Advanced Materials, 2022, 34, e2106379.	21.0	79
17	Rational design of ZnO-zeolite imidazole hybrid nanoparticles with reduced charge recombination for enhanced photocatalysis. Journal of Colloid and Interface Science, 2022, 614, 538-546.	9.4	36
18	Perovskites for protonic ceramic fuel cells: a review. Energy and Environmental Science, 2022, 15, 2200-2232.	30.8	87

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19	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.	10.3	63
20	High Selectivity Electrocatalysts for Oxygen Evolution Reaction and Anti-Chlorine Corrosion Strategies in Seawater Splitting. Catalysts, 2022, 12, 261.	3.5	34
21	New Undisputed Evidence and Strategy for Enhanced Latticeâ€Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. Advanced Science, 2022, 9, e2200530.	11.2	75
22	Tailoring structural properties of carbon via implanting optimal co nanoparticles in nâ€rich carbon cages toward highâ€efficiency oxygen electrocatalysis for rechargeable znâ€air batteries. , 2022, 4, 576-585.		27
23	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis. Nature Communications, 2022, 13, 1189.	12.8	122
24	Realizing Simultaneous Detrimental Reactions Suppression and Multiple Benefits Generation from Nickel Doping toward Improved Protonic Ceramic Fuel Cell Performance. Small, 2022, 18, e2200450.	10.0	25
25	Bridging the Charge Accumulation and High Reaction Order for Highâ€Rate Oxygen Evolution and Long Stable Znâ€Air Batteries. Advanced Functional Materials, 2022, 32, .	14.9	49
26	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
27	Recent advances in ZnO-based photosensitizers: Synthesis, modification, and applications in photodynamic cancer therapy. Journal of Colloid and Interface Science, 2022, 621, 440-463.	9.4	13
28	Dynamic Reversible Evolution of Solid Electrolyte Interface in Nonflammable Triethyl Phosphate Electrolyte Enabling Safe and Stable Potassiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	14.9	32
29	Realizing Interfacial Electron/Hole Redistribution and Superhydrophilic Surface through Building Heterostructural 2Ânm Co_{0.85}Seâ€NiSe Nanograins for Efficient Overall Water Splittings. Small Methods, 2022, 6, e2200459.	8.6	14
30	Synergistically boosting the elementary reactions over multiheterogeneous ordered macroporous Mo₂C/NCâ€Ru for highly efficient alkaline hydrogen evolution. , 2022, 4, 856-866.		27
31	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.	8.0	6
32	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
33	Improving Moisture/Thermal Stability and Efficiency of CH 3 NH 3 PbI 3 â€Based Perovskite Solar Cells via Gentle Butyl Acrylate Additive Strategy. Solar Rrl, 2021, 5, 2000621.	5.8	20
34	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.	12.8	37
35	Unlocking the Potential of Mechanochemical Coupling: Boosting the Oxygen Evolution Reaction by Mating Proton Acceptors with Electron Donors. Advanced Functional Materials, 2021, 31, 2008077.	14.9	40
36	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. Chemical Engineering Journal, 2021, 417, 128105.	12.7	28

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37	Revealing the sodiumâ€storage performance enhancement of adsorptionâ€type carbon materials after ammonia treatment: Active nitrogen dopants or specific surface area?. International Journal of Energy Research, 2021, 45, 7447-7456.	4.5	2
38	Oxide-based precious metal-free electrocatalysts for anion exchange membrane fuel cells: from material design to cell applications. Journal of Materials Chemistry A, 2021, 9, 3151-3179.	10.3	12
39	An Adsorptionâ€“Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. ACS ES&T Water, 2021, 1, 145-156.	4.6	21
40	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. Chemical Society Reviews, 2021, 50, 10116-10211.	38.1	140
41	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.	10.3	14
42	Self-Supported Nickel Phosphide Electrode for Efficient Alkaline Water-to-Hydrogen Conversion via Urea Electrolysis. Industrial & Engineering Chemistry Research, 2021, 60, 1185-1193.	3.7	36
43	Highâ€Quality Ruddlesdenâ€“Popper Perovskite Film Formation for Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2021, 33, e2002582.	21.0	182
44	Fast operando spectroscopy tracking in situ generation of rich defects in silver nanocrystals for highly selective electrochemical CO2 reduction. Nature Communications, 2021, 12, 660.	12.8	68
45	Robust Anodeâ€Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO₂ Electrolysis at Ultrahigh Current Densities. Small, 2021, 17, e2007211.	10.0	13
46	Interfacial La Diffusion in the CeO₂/LaFeO₃ Hybrid for Enhanced Oxygen Evolution Activity. ACS Applied Materials & Interfaces, 2021, 13, 2799-2806.	8.0	38
47	Maintaining pronounced proton transportation of solid oxides prepared with a sintering additive. Journal of Materials Chemistry A, 2021, 9, 14553-14565.	10.3	11
48	Designing Highâ€Valence Metal Sites for Electrochemical Water Splitting. Advanced Functional Materials, 2021, 31, 2009779.	14.9	195
49	Improving Moisture/Thermal Stability and Efficiency of CH₃NH₃PbI₃â€Based Perovskite Solar Cells via Gentle Butyl Acrylate Additive Strategy. Solar Rrl, 2021, 5, 2170035.	5.8	2
50	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. Applied Physics Reviews, 2021, 8, .	11.3	20
51	Thermal-expansion offset for high-performance fuel cell cathodes. Nature, 2021, 591, 246-251.	27.8	328
52	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, 2003916.	19.5	53
53	Selenic Acid Etching Assisted Vacancy Engineering for Designing Highly Active Electrocatalysts toward the Oxygen Evolution Reaction. Advanced Materials, 2021, 33, e2007523.	21.0	116
54	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.	9.5	19

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55	Porous Structure Engineering of Iridium Oxide Nanoclusters on Atomic Scale for Efficient pHâ€Universal Overall Water Splitting. Small, 2021, 17, e2100121.	10.0	40
56	Protonâ€Conducting Fuel Cells: A New Pd Doped Proton Conducting Perovskite Oxide with Multiple Functionalities for Efficient and Stable Power Generation from Ammonia at Reduced Temperatures (Adv. Energy Mater. 19/2021). Advanced Energy Materials, 2021, 11, 2170075.	19.5	1
57	Recent advances in functional oxides for high energy density sodium-ion batteries. Materials Reports Energy, 2021, 1, 100022.	3.2	26
58	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. Advanced Functional Materials, 2021, 31, 2102089.	14.9	93
59	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, 2101556.	14.9	97
60	New TiO₂â€Based Oxide for Catalyzing Alkaline Hydrogen Evolution Reaction with Noble Metalâ€Like Performance. Small Methods, 2021, 5, e2100246.	8.6	25
61	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. Chemistry of Materials, 2021, 33, 5233-5241.	6.7	32
62	Recent Advances in the Understanding of the Surface Reconstruction of Oxygen Evolution Electrocatalysts and Materials Development. Electrochemical Energy Reviews, 2021, 4, 566-600.	25.5	90
63	Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. Small, 2021, 17, e2101573.	10.0	128
64	Advances in Zeolite Imidazolate Frameworks (ZIFs) Derived Bifunctional Oxygen Electrocatalysts and Their Application in Zincâ€“Air Batteries. Advanced Energy Materials, 2021, 11, 2100514.	19.5	132
65	Engineering Charge Redistribution within Perovskite Oxides for Synergistically Enhanced Overall Water Splitting. , 2021, 3, 1258-1265.		30
66	Building Ruddlesdenâ€“Popper and Single Perovskite Nanocomposites: A New Strategy to Develop Highâ€Performance Cathode for Protonic Ceramic Fuel Cells. Small, 2021, 17, e2101872.	10.0	38
67	Activating Both Basal Plane and Edge Sites of Layered Cobalt Oxides for Boosted Water Oxidation. Advanced Functional Materials, 2021, 31, 2103569.	14.9	28
68	Cation-Deficient Perovskites for Clean Energy Conversion. Accounts of Materials Research, 2021, 2, 477-488.	11.7	82
69	Fundamental Understanding and Application of Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â^'Î´}Perovskite in Energy Storage and Conversion: Past, Present, and Future. Energy & Fuels, 2021, 35, 13585-13609.	5.1	113
70	Nanocomposites: A New Opportunity for Developing Highly Active and Durable Bifunctional Air Electrodes for Reversible Protonic Ceramic Cells. Advanced Energy Materials, 2021, 11, 2101899.	19.5	70
71	Metal-free carbon based air electrodes for Zn-air batteries: Recent advances and perspective. Materials Research Bulletin, 2021, 140, 111315.	5.2	35
72	Recent Progress on Structurally Ordered Materials for Electrocatalysis. Advanced Energy Materials, 2021, 11, 2101937.	19.5	65

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73	Rational Design of Superior Electrocatalysts for Water Oxidation: Crystalline or Amorphous Structure?. Small Science, 2021, 1, 2100030.	9.9	44
74	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	44
75	Exceptionally Robust Faceâ€Sharing Motifs Enable Efficient and Durable Water Oxidation. Advanced Materials, 2021, 33, e2103392.	21.0	36
76	Metal Phosphides Embedded with In Situâ€Formed Metal Phosphate Impurities as Buffer Materials for Highâ€Performance Potassiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2101413.	19.5	24
77	Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. Chemical Society Reviews, 2021, 50, 12744-12787.	38.1	75
78	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, e2102186.	10.0	28
79	Preparation Strategies of p-Type Cuprous Oxide and Its Solar Energy Conversion Performance. Energy & Fuels, 2021, 35, 17334-17352.	5.1	31
80	First investigation of additive engineering for highly efficient Cs2AgBiBr6-based lead-free inorganic perovskite solar cells. Applied Physics Reviews, 2021, 8, .	11.3	34
81	Covalent Organic Framework (COF)â€Based Hybrids for Electrocatalysis: Recent Advances and Perspectives. Small Methods, 2021, 5, e2100945.	8.6	36
82	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.	8.0	12
83	Modulating metalâ€“organic frameworks for catalyzing acidic oxygen evolution for proton exchange membrane water electrolysis. SusMat, 2021, 1, 460-481.	14.9	86
84	Regulating the Interfacial Electron Density of La_{0.8}Sr_{0.2}Mn_{0.5}Co_{0.5}O₃/RuO_x for Efficient and Low-Cost Bifunctional Oxygen Electrocatalysts and Rechargeable Zn-Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 61098-61106.	8.0	10
85	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.	8.0	12
86	Perowskitoxidâ€Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung. Angewandte Chemie, 2020, 132, 140-158.	2.0	8
87	Perovskite Oxide Based Electrodes for Highâ€Performance Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 136-152.	13.8	253
88	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.	8.9	22
89	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.	10.7	25
90	Rational Design of Agâ€Based Catalysts for the Electrochemical CO₂ Reduction to CO: A Review. ChemSusChem, 2020, 13, 39-58.	6.8	106

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91	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
92	Postsynthesis Oxygen Nonstoichiometric Regulation: A New Strategy for Performance Enhancement of Perovskites in Advanced Oxidation. Industrial & Engineering Chemistry Research, 2020, 59, 99-109.	3.7	17
93	Highâ€Performance Platinumâ€Perovskite Composite Bifunctional Oxygen Electrocatalyst for Rechargeable Znâ€“Air Battery. Advanced Energy Materials, 2020, 10, 1903271.	19.5	98
94	Coal pretreatment and Ag-infiltrated anode for high-performance hybrid direct coal fuel cell. Applied Energy, 2020, 260, 114197.	10.1	24
95	Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. Energy Storage Materials, 2020, 26, 1-22.	18.0	208
96	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.	8.2	21
97	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.	8.9	30
98	A new dual-ion hybrid energy storage system with energy density comparable to that of ternary lithium ion batteries. Journal of Materials Chemistry A, 2020, 8, 2571-2580.	10.3	95
99	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. Applied Physics Reviews, 2020, 7, .	11.3	28
100	Fuel Cells: Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Directâ€Ammonia Solid Oxide Fuel Cells (Small 28/2020). Small, 2020, 16, 2070154.	10.0	0
101	Ruddlesdenâ€“Popper perovskites in electrocatalysis. Materials Horizons, 2020, 7, 2519-2565.	12.2	139
102	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. Chemical Physics Reviews, 2020, 1, .	5.7	28
103	Efficient Water Splitting Actualized through an Electrochemistryâ€Induced Heteroâ€Structured Antiperovskite/(Oxy)Hydroxide Hybrid. Small, 2020, 16, e2006800.	10.0	36
104	Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen Defects for Zincâ€Air Batteries. ChemElectroChem, 2020, 7, 4949-4955.	3.4	23
105	Zeolitic Imidazolate Framework-Derived Ordered Ptâ€“Fe Intermetallic Electrocatalysts for High-Performance Zn-Air Batteries. Energy & Fuels, 2020, 34, 11527-11535.	5.1	22
106	Advances in Ceramic Thin Films Fabricated by Pulsed Laser Deposition for Intermediate-Temperature Solid Oxide Fuel Cells. Energy & Fuels, 2020, 34, 10568-10582.	5.1	37
107	High-Performance Proton-Conducting Fuel Cell with B-Site-Deficient Perovskites for All Cell Components. Energy & Fuels, 2020, 34, 11464-11471.	5.1	40
108	Emerging Strategies for Developing High-Performance Perovskite-Based Materials for Electrochemical Water Splitting. Energy & Fuels, 2020, 34, 10547-10567.	5.1	52

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109	Ruddlesdenâ€“Popper Perovskite Oxides for Photocatalysis-Based Water Splitting and Wastewater Treatment. Energy & Fuels, 2020, 34, 9208-9221.	5.1	53
110	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.	5.1	42
111	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
112	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.	5.1	139
113	Tuning Nitrogen in Graphitic Carbon Nitride Enabling Enhanced Performance for Polysulfide Confinement in Liâ€“S Batteries. Energy & Fuels, 2020, 34, 11557-11564.	5.1	19
114	Exsolved Alloy Nanoparticles Decorated Ruddlesdenâ€“Popper Perovskite as Sulfur-Tolerant Anodes for Solid Oxide Fuel Cells. Energy & Fuels, 2020, 34, 11449-11457.	5.1	32
115	A Functionâ€Separated Design of Electrode for Realizing Highâ€Performance Hybrid Zinc Battery. Advanced Energy Materials, 2020, 10, 2002992.	19.5	84
116	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.	5.1	19
117	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.	5.1	14
118	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. Energy and Environmental Science, 2020, 13, 3361-3392.	30.8	370
119	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
120	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.		64
121	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.	10.3	47
122	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.	6.7	72
123	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.	7.8	52
124	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.	7.8	30
125	Efficient water splitting through solid oxide electrolysis cells with a new hydrogen electrode derived from A-site cation-deficient La0.4Sr0.55Co0.2Fe0.6Nb0.2O3-Î´ perovskite. Materials Today Energy, 2020, 17, 100458.	4.7	32
126	Multifunctional Dye Interlayers: Simultaneous Power Conversion Efficiency and Stability Enhancement of Cs₂AgBiBr₆ Leadâ€Free Inorganic Perovskite Solar Cell through Adopting a Multifunctional Dye Interlayer (Adv. Funct. Mater. 23/2020). Advanced Functional Materials, 2020, 30, 2070147.	14.9	3

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127	A Porous Nano-Micro-Composite as a High-Performance Bi-Functional Air Electrode with Remarkable Stability for Rechargeable Zincâ€“Air Batteries. Nano-Micro Letters, 2020, 12, 130.	27.0	52
128	Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Directâ€Ammonia Solid Oxide Fuel Cells. Small, 2020, 16, e2001859.	10.0	53
129	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.	8.0	19
130	Boosting oxygen evolution reaction by activation of latticeâ€oxygen sites in layered Ruddlesdenâ€Popper oxide. EcoMat, 2020, 2, e12021.	11.9	58
131	Activation-free supercapacitor electrode based on surface-modified Sr2CoMo1-xNixO6-Î´ perovskite. Chemical Engineering Journal, 2020, 390, 124645.	12.7	34
132	Improvement of solid oxide fuel cell performance by a coreâ€shell structured catalyst using low concentration coal bed methane fuel. International Journal of Energy Research, 2020, 44, 5516-5526.	4.5	7
133	From scheelite BaMoO4 to perovskite BaMoO3: Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. Composites Part B: Engineering, 2020, 198, 108214.	12.0	46
134	A Selfâ€Assembled Heteroâ€Structured Inverseâ€Spinel and Antiâ€Perovskite Nanocomposite for Ultrafast Water Oxidation. Small, 2020, 16, e2002089.	10.0	40
135	Recent Advances in Filler Engineering of Polymer Electrolytes for Solid-State Li-Ion Batteries: A Review. Energy & Fuels, 2020, 34, 9189-9207.	5.1	89
136	Fuel cells that operate at 300Â° to 500Â°C. Science, 2020, 369, 138-139.	12.6	48
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	84
138	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. Nature Communications, 2020, 11, 3376.	12.8	122
139	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metalâ€“Air Batteries. Energy and Environmental Materials, 2020, 3, 121-145.	12.8	119
140	Self-Recovery Chemistry and Cobalt-Catalyzed Electrochemical Deposition of Cathode for Boosting Performance of Aqueous Zinc-Ion Batteries. IScience, 2020, 23, 100943.	4.1	83
141	Boosting the oxygen evolution catalytic performance of perovskites via optimizing calcination temperature. Journal of Materials Chemistry A, 2020, 8, 6480-6486.	10.3	32
142	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	69
143	Nonstoichiometric perovskite for enhanced catalytic oxidation through excess A-site cation. Chemical Engineering Science, 2020, 219, 115596.	3.8	26
144	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	15

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145	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.	7.1	23
146	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, e1906979.	21.0	113
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