

Zongping Shao

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

691
papers

40,551
citations

95
h-index

166
g-index

720
ext. papers

47,972
ext. citations

10.5
avg, IF

8.15
L-index

#	Paper	IF	Citations
691	Boosting Electrocatalytic Activity of Single Atom Catalysts Supported on Nitrogen-Doped Carbon through N Coordination Environment Engineering.. <i>Small</i> , 2022 , e2105329	11	19
690	Rational Design of a High-Durability Pt-Based ORR Catalyst Supported on Mn/N Codoped Carbon Sheets for PEMFCs. <i>Energy & Fuels</i> , 2022 , 36, 1707-1715	4.1	5
689	A low resistance and stable lithium-garnet electrolyte interface enabled by a multifunctional anode additive for solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 2519-2527	13	6
688	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1899-1909	8.3	8
687	Rational design of ZnO-zeolite imidazole hybrid nanoparticles with reduced charge recombination for enhanced photocatalysis.. <i>Journal of Colloid and Interface Science</i> , 2022 , 614, 538-546	9.3	3
686	Single-atom catalysts for high-efficiency photocatalytic and photoelectrochemical water splitting: distinctive roles, unique fabrication methods and specific design strategies. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 6835-6871	13	6
685	High Selectivity Electrocatalysts for Oxygen Evolution Reaction and Anti-Chlorine Corrosion Strategies in Seawater Splitting. <i>Catalysts</i> , 2022 , 12, 261	4	2
684	New Undisputed Evidence and Strategy for Enhanced Lattice-Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation.. <i>Advanced Science</i> , 2022 , e2200530	13.6	15
683	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis.. <i>Nature Communications</i> , 2022 , 13, 1189	17.4	12
682	Realizing Simultaneous Detrimental Reactions Suppression and Multiple Benefits Generation from Nickel Doping toward Improved Protonic Ceramic Fuel Cell Performance.. <i>Small</i> , 2022 , e2200450	11	3
681	Recent advances in ZnO-based photosensitizers: Synthesis, modification, and applications in photodynamic cancer therapy.. <i>Journal of Colloid and Interface Science</i> , 2022 , 621, 440-463	9.3	1
680	Realizing Interfacial Electron/Hole Redistribution and Superhydrophilic Surface through Building Heterostructural ZnM Co Se-NiSe Nanograins for Efficient Overall Water Splittings.. <i>Small Methods</i> , 2022 , e2200459	12.8	2
679	A New Durable Surface Nanoparticles-Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere.. <i>Advanced Materials</i> , 2021 , e2106379	24	13
678	Modulating metal-organic frameworks for catalyzing acidic oxygen evolution for proton exchange membrane water electrolysis. <i>SusMat</i> , 2021 , 1, 460-481		12
677	Stabilizing Li Anodes in I Steam to Tackle the Shuttling-Induced Depletion of an Iodide/Triiodide Redox Mediator in Li-O Batteries with Suppressed Li Dendrite Growth. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53859-53867	9.5	2
676	Electrochemistry and energy conversion features of protonic ceramic cells with mixed ionic-electronic electrolytes. <i>Energy and Environmental Science</i> , 2021 ,	35.4	10
675	Recent advances of metal telluride anodes for high-performance lithium/sodium-ion batteries. <i>Materials Horizons</i> , 2021 ,	14.4	7

674	Enhancing the photocatalytic activity of Ruddlesden-Popper Sr ₂ TiO ₄ for hydrogen evolution through synergistic silver doping and moderate reducing pretreatment. <i>Materials Today Energy</i> , 2021 , 23, 100899	7	9
673	A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zinc-Air Batteries. <i>Small</i> , 2021 , e2105604	11	0
672	Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. <i>Chemical Society Reviews</i> , 2021 , 50, 12744-12787	58.5	10
671	Benefitting from Synergistic Effect of Anion and Cation in Antimony Acetate for Stable CH ₃ NH ₃ PbI ₃ -Based Perovskite Solar Cell with Efficiency Beyond 21. <i>Small</i> , 2021 , 17, e2102186	11	6
670	First investigation of additive engineering for highly efficient Cs ₂ AgBiBr ₆ -based lead-free inorganic perovskite solar cells. <i>Applied Physics Reviews</i> , 2021 , 8, 041402	17.3	5
669	Covalent Organic Framework (COF)-Based Hybrids for Electrocatalysis: Recent Advances and Perspectives.. <i>Small Methods</i> , 2021 , 5, e2100945	12.8	5
668	Thermal-expansion offset for high-performance fuel cell cathodes. <i>Nature</i> , 2021 , 591, 246-251	50.4	97
667	A New Pd Doped Proton Conducting Perovskite Oxide with Multiple Functionalities for Efficient and Stable Power Generation from Ammonia at Reduced Temperatures. <i>Advanced Energy Materials</i> , 2021 , 11, 2003916	21.8	25
666	Selenic Acid Etching Assisted Vacancy Engineering for Designing Highly Active Electrocatalysts toward the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2021 , 33, e2007523	24	38
665	A Direct -Butane Solid Oxide Fuel Cell Using Ba(ZrCeYYb)NiRuO Perovskite as the Reforming Layer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20105-20113	9.5	7
664	Porous Structure Engineering of Iridium Oxide Nanoclusters on Atomic Scale for Efficient pH-Universal Overall Water Splitting. <i>Small</i> , 2021 , 17, e2100121	11	14
663	Proton-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). <i>Advanced Energy Materials</i> , 2021 , 11, 2170075	21.8	1
662	Recent advances in functional oxides for high energy density sodium-ion batteries. <i>Materials Reports Energy</i> , 2021 , 1, 100022		10
661	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. <i>Advanced Functional Materials</i> , 2021 , 31, 2102089	15.6	29
660	Smart Construction of an Intimate Lithium Garnet Interface for All-Solid-State Batteries by Tuning the Tension of Molten Lithium. <i>Advanced Functional Materials</i> , 2021 , 31, 2101556	15.6	29
659	New TiO ₂ -Based Oxide for Catalyzing Alkaline Hydrogen Evolution Reaction with Noble Metal-Like Performance.. <i>Small Methods</i> , 2021 , 5, e2100246	12.8	6
658	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. <i>Chemistry of Materials</i> , 2021 , 33, 5233-5241	9.6	19
657	Recent Advances in the Understanding of the Surface Reconstruction of Oxygen Evolution Electrocatalysts and Materials Development. <i>Electrochemical Energy Reviews</i> , 2021 , 4, 566-600	29.3	21

656	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021 , 17, e2101573	11	44
655	Advances in Zeolite Imidazolate Frameworks (ZIFs) Derived Bifunctional Oxygen Electrocatalysts and Their Application in Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100514	21.8	24
654	Engineering Charge Redistribution within Perovskite Oxides for Synergistically Enhanced Overall Water Splitting 2021 , 3, 1258-1265		4
653	Building Ruddlesden-Popper and Single Perovskite Nanocomposites: A New Strategy to Develop High-Performance Cathode for Protonic Ceramic Fuel Cells. <i>Small</i> , 2021 , 17, e2101872	11	6
652	Chlorine-anion doping induced multi-factor optimization in perovskites for boosting intrinsic oxygen evolution. <i>Journal of Energy Chemistry</i> , 2021 , 52, 115-120	12	34
651	Improving Moisture/Thermal Stability and Efficiency of CH ₃ NH ₃ PbI ₃ -Based Perovskite Solar Cells via Gentle Butyl Acrylate Additive Strategy. <i>Solar Rrl</i> , 2021 , 5, 2000621	7.1	8
650	A Highly Ordered Hydrophilic/Hydrophobic Janus Bi-Functional Layer with Ultralow Pt Loading and Fast Gas/Water Transport for Fuel Cells. <i>Energy and Environmental Materials</i> , 2021 , 4, 126-133	13	19
649	Unlocking the Potential of Mechanochemical Coupling: Boosting the Oxygen Evolution Reaction by Mating Proton Acceptors with Electron Donors. <i>Advanced Functional Materials</i> , 2021 , 31, 2008077	15.6	22
648	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. <i>Chemical Engineering Journal</i> , 2021 , 417, 128105	14.7	9
647	Revealing the sodium-storage performance enhancement of adsorption-type carbon materials after ammonia treatment: Active nitrogen dopants or specific surface area?. <i>International Journal of Energy Research</i> , 2021 , 45, 7447-7456	4.5	2
646	Oxide-based precious metal-free electrocatalysts for anion exchange membrane fuel cells: from material design to cell applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3151-3179	13	7
645	An Adsorption-Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. <i>ACS ES&T Water</i> , 2021 , 1, 145-156		10
644	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. <i>Chemical Society Reviews</i> , 2021 , 50, 10116-10211	58.5	31
643	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	13	2
642	Self-Supported Nickel Phosphide Electrode for Efficient Alkaline Water-to-Hydrogen Conversion via Urea Electrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1185-1193	3.9	16
641	High-Quality Ruddlesden-Popper Perovskite Film Formation for High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2002582	24	66
640	Fast operando spectroscopy tracking in situ generation of rich defects in silver nanocrystals for highly selective electrochemical CO reduction. <i>Nature Communications</i> , 2021 , 12, 660	17.4	25
639	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO Electrolysis at Ultrahigh Current Densities. <i>Small</i> , 2021 , 17, e2007211	11	5

638	Interfacial La Diffusion in the CeO/LaFeO Hybrid for Enhanced Oxygen Evolution Activity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 2799-2806	9.5	12
637	Maintaining pronounced proton transportation of solid oxides prepared with a sintering additive. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14553-14565	13	1
636	Designing High-Valence Metal Sites for Electrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2021 , 31, 2009779	15.6	67
635	Improving Moisture/Thermal Stability and Efficiency of CH ₃ NH ₃ PbI ₃ -Based Perovskite Solar Cells via Gentle Butyl Acrylate Additive Strategy. <i>Solar Rrl</i> , 2021 , 5, 2170035	7.1	0
634	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. <i>Applied Physics Reviews</i> , 2021 , 8, 011407	17.3	12
633	Activating Both Basal Plane and Edge Sites of Layered Cobalt Oxides for Boosted Water Oxidation. <i>Advanced Functional Materials</i> , 2021 , 31, 2103569	15.6	9
632	Cation-Deficient Perovskites for Clean Energy Conversion. <i>Accounts of Materials Research</i> , 2021 , 2, 477-488	18.8	20
631	Fundamental Understanding and Application of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ Perovskite in Energy Storage and Conversion: Past, Present, and Future. <i>Energy & Fuels</i> , 2021 , 35, 13585-13609	4.1	21
630	Nanocomposites: A New Opportunity for Developing Highly Active and Durable Bifunctional Air Electrodes for Reversible Protonic Ceramic Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2101899	21.8	14
629	Metal-free carbon based air electrodes for Zn-air batteries: Recent advances and perspective. <i>Materials Research Bulletin</i> , 2021 , 140, 111315	5.1	5
628	Recent Progress on Structurally Ordered Materials for Electrocatalysis. <i>Advanced Energy Materials</i> , 2021 , 11, 2101937	21.8	23
627	Rational Design of Superior Electrocatalysts for Water Oxidation: Crystalline or Amorphous Structure?. <i>Small Science</i> , 2021 , 1, 2100030		22
626	Tailoring charge and mass transport in cation/anion-codoped Ni ₃ N / N-doped CNT integrated electrode toward rapid oxygen evolution for fast-charging zinc-air batteries. <i>Energy Storage Materials</i> , 2021 , 39, 11-20	19.4	19
625	Exceptionally Robust Face-Sharing Motifs Enable Efficient and Durable Water Oxidation. <i>Advanced Materials</i> , 2021 , 33, e2103392	24	8
624	Metal Phosphides Embedded with In Situ-Formed Metal Phosphate Impurities as Buffer Materials for High-Performance Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101413	21.8	4
623	Regulating the Interfacial Electron Density of LaSrMnCoO/RuO for Efficient and Low-Cost Bifunctional Oxygen Electrocatalysts and Rechargeable Zn-Air Batteries.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61098-61106	9.5	1
622	One Pot-Synthesized Ag/Ag-Doped CeO Nanocomposite with Rich and Stable 3D Interfaces and Ce for Efficient Carbon Dioxide Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
621	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. <i>Nature Communications</i> , 2020 , 11, 5657	17.4	49

620	Direct growth of ordered N-doped carbon nanotube arrays on carbon fiber cloth as a free-standing and binder-free air electrode for flexible quasi-solid-state rechargeable Zn-Air batteries 2020 , 2, 461-471		29
619	A CO ₂ -tolerant SrCo _{0.8} Fe _{0.15} Zr _{0.05} O _{3-δ} cathode for proton-conducting solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11292-11301	13	22
618	Monoclinic SrIrO ₃ : An Easily Synthesized Conductive Perovskite Oxide with Outstanding Performance for Overall Water Splitting in Alkaline Solution. <i>Chemistry of Materials</i> , 2020 , 32, 4509-4517	9.6	38
617	High-performance metal-organic framework-perovskite hybrid as an important component of the air-electrode for rechargeable Zn-Air battery. <i>Journal of Power Sources</i> , 2020 , 468, 228377	8.9	32
616	A new highly active and CO ₂ -stable perovskite-type cathode material for solid oxide fuel cells developed from A- and B-site cation synergy. <i>Journal of Power Sources</i> , 2020 , 457, 227995	8.9	15
615	Efficient water splitting through solid oxide electrolysis cells with a new hydrogen electrode derived from A-site cation-deficient La _{0.4} Sr _{0.55} Co _{0.2} Fe _{0.6} Nb _{0.2} O _{3-δ} -perovskite. <i>Materials Today Energy</i> , 2020 , 17, 100458	7	16
614	Multifunctional Dye Interlayers: Simultaneous Power Conversion Efficiency and Stability Enhancement of Cs ₂ AgBiBr ₆ Lead-Free Inorganic Perovskite Solar Cell through Adopting a Multifunctional Dye Interlayer (Adv. Funct. Mater. 23/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070147	15.6	3
613	A Porous Nano-Micro-Composite as a High-Performance Bi-Functional Air Electrode with Remarkable Stability for Rechargeable Zinc-Air Batteries. <i>Nano-Micro Letters</i> , 2020 , 12, 130	19.5	31
612	Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Direct-Ammonia Solid Oxide Fuel Cells. <i>Small</i> , 2020 , 16, e2001859	11	30
611	Turning Detrimental Effect into Benefits: Enhanced Oxygen Reduction Reaction Activity of Cobalt-Free Perovskites at Intermediate Temperature CO-Induced Surface Activation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16417-16425	9.5	10
610	Boosting oxygen evolution reaction by activation of lattice-oxygen sites in layered Ruddlesden-Popper oxide. <i>EcoMat</i> , 2020 , 2, e12021	9.4	24
609	Activation-free supercapacitor electrode based on surface-modified Sr ₂ CoMo _{1-x} Ni _x O _{6-δ} perovskite. <i>Chemical Engineering Journal</i> , 2020 , 390, 124645	14.7	15
608	Improvement of solid oxide fuel cell performance by a core-shell structured catalyst using low concentration coal bed methane fuel. <i>International Journal of Energy Research</i> , 2020 , 44, 5516-5526	4.5	4
607	From scheelite BaMoO ₄ to perovskite BaMoO ₃ : Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. <i>Composites Part B: Engineering</i> , 2020 , 198, 108214	10	23
606	A Self-Assembled Hetero-Structured Inverse-Spinel and Anti-Perovskite Nanocomposite for Ultrafast Water Oxidation. <i>Small</i> , 2020 , 16, e2002089	11	28
605	Recent Advances in Filler Engineering of Polymer Electrolytes for Solid-State Li-Ion Batteries: A Review. <i>Energy & Fuels</i> , 2020 , 34, 9189-9207	4.1	49
604	Fuel cells that operate at 300°C to 500°C. <i>Science</i> , 2020 , 369, 138-139	33.3	22
603	Rich atomic interfaces between sub-1 nm RuO _x clusters and porous Co ₃ O ₄ nanosheets boost oxygen electrocatalysis bifunctionality for advanced Zn-air batteries. <i>Energy Storage Materials</i> , 2020 , 32, 20-29	19.4	46

602	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. <i>Nature Communications</i> , 2020 , 11, 3376	17.4	50
601	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metal-Air Batteries. <i>Energy and Environmental Materials</i> , 2020 , 3, 121-145	13	69
600	Self-Recovery Chemistry and Cobalt-Catalyzed Electrochemical Deposition of Cathode for Boosting Performance of Aqueous Zinc-Ion Batteries. <i>IScience</i> , 2020 , 23, 100943	6.1	47
599	Boosting the oxygen evolution catalytic performance of perovskites via optimizing calcination temperature. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6480-6486	13	19
598	Water-proof, electrolyte-nonvolatile, and flexible Li-Air batteries via O ₂ -Permeable silica-aerogel-reinforced polydimethylsiloxane external membranes. <i>Energy Storage Materials</i> , 2020 , 27, 297-306	19.4	45
597	Nonstoichiometric perovskite for enhanced catalytic oxidation through excess A-site cation. <i>Chemical Engineering Science</i> , 2020 , 219, 115596	4.4	11
596	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. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122313	12.8	7
595	Enhancing the oxygen reduction activity of PrBaCo ₂ O ₅ + δ double perovskite cathode by tailoring the calcination temperatures. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 25996-26004	6.7	8
594	A Cobalt-Free Multi-Phase Nanocomposite as Near-Ideal Cathode of Intermediate-Temperature Solid Oxide Fuel Cells Developed by Smart Self-Assembly. <i>Advanced Materials</i> , 2020 , 32, e1906979	24	59
593	Promoting the Efficiency and Stability of CsPbI ₃ -Based All-Inorganic Perovskite Solar Cells through a Functional Cu Doping Strategy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23984-23994	9.5	45
592	Bulk and Surface Properties Regulation of Single/Double Perovskites to Realize Enhanced Oxygen Evolution Reactivity. <i>ChemSusChem</i> , 2020 , 13, 3045-3052	8.3	19
591	Facile synthesis of synergistic Pt/(Co-N)@C composites as alternative oxygen-reduction electrode of PEMFCs with attractive activity and durability. <i>Composites Part B: Engineering</i> , 2020 , 193, 108012	10	13
590	Manipulating cation nonstoichiometry towards developing better electrolyte for self-humidified dual-ion solid oxide fuel cells. <i>Journal of Power Sources</i> , 2020 , 460, 228105	8.9	13
589	Efficient Wastewater Remediation Enabled by Self-Assembled Perovskite Oxide Heterostructures with Multiple Reaction Pathways. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6033-6042	8.3	24
588	Fast cation exchange of layered sodium transition metal oxides for boosting oxygen evolution activity and enhancing durability. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8075-8083	13	5
587	A smart lithiophilic polymer filler in gel polymer electrolyte enables stable and dendrite-free Li metal anode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9733-9742	13	32
586	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , 2020 , 11, 2002	17.4	166
585	Rational Design of Ag-Based Catalysts for the Electrochemical CO Reduction to CO: A Review. <i>ChemSusChem</i> , 2020 , 13, 39-58	8.3	55

584	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Lattice-Oxygen Active Sites in a Complex Oxide. <i>Advanced Materials</i> , 2020 , 32, e1905025	24	122
583	Postsynthesis Oxygen Nonstoichiometric Regulation: A New Strategy for Performance Enhancement of Perovskites in Advanced Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 99-109	3.9	12
582	High-Performance Platinum-Perovskite Composite Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 1903271	21.8	52
581	Coal pretreatment and Ag-infiltrated anode for high-performance hybrid direct coal fuel cell. <i>Applied Energy</i> , 2020 , 260, 114197	10.7	11
580	Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. <i>Energy Storage Materials</i> , 2020 , 26, 1-22	19.4	110
579	Realizing stable high hydrogen permeation flux through BaCo _{0.4} Fe _{0.4} Zr _{0.1} Y _{0.1} O _{3-δ} -membrane using a thin Pd film protection strategy. <i>Journal of Membrane Science</i> , 2020 , 596, 117709	9.6	12
578	Direct-methane solid oxide fuel cells with an in situ formed NiBe alloy composite catalyst layer over Ni-YSZ anodes. <i>Renewable Energy</i> , 2020 , 150, 334-341	8.1	21
577	A new dual-ion hybrid energy storage system with energy density comparable to that of ternary lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2571-2580	13	54
576	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. <i>Applied Physics Reviews</i> , 2020 , 7, 041304	17.3	14
575	Fuel Cells: Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Direct-Ammonia Solid Oxide Fuel Cells (Small 28/2020). <i>Small</i> , 2020 , 16, 2070154	11	
574	Ruddlesden-Popper perovskites in electrocatalysis. <i>Materials Horizons</i> , 2020 , 7, 2519-2565	14.4	71
573	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. <i>Chemical Physics Reviews</i> , 2020 , 1, 011303	4.4	10
572	Efficient Water Splitting Actualized through an Electrochemistry-Induced Hetero-Structured Antiperovskite/(Oxy)Hydroxide Hybrid. <i>Small</i> , 2020 , 16, e2006800	11	13
571	Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen Defects for Zinc-Air Batteries. <i>ChemElectroChem</i> , 2020 , 7, 4949-4955	4.3	11
570	Zeolitic Imidazolate Framework-Derived Ordered PtBe Intermetallic Electrocatalysts for High-Performance Zn-Air Batteries. <i>Energy & Fuels</i> , 2020 , 34, 11527-11535	4.1	15
569	Advances in Ceramic Thin Films Fabricated by Pulsed Laser Deposition for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Energy & Fuels</i> , 2020 , 34, 10568-10582	4.1	16
568	High-Performance Proton-Conducting Fuel Cell with B-Site-Deficient Perovskites for All Cell Components. <i>Energy & Fuels</i> , 2020 , 34, 11464-11471	4.1	17
567	Emerging Strategies for Developing High-Performance Perovskite-Based Materials for Electrochemical Water Splitting. <i>Energy & Fuels</i> , 2020 , 34, 10547-10567	4.1	27

566	Ruddlesden-Popper Perovskite Oxides for Photocatalysis-Based Water Splitting and Wastewater Treatment. <i>Energy & Fuels</i> , 2020 , 34, 9208-9221	4.1	22
565	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. <i>Energy & Fuels</i> , 2020 , 34, 9175-9188	4.1	19
564	Toward Reducing the Operation Temperature of Solid Oxide Fuel Cells: Our Past 15 Years of Efforts in Cathode Development. <i>Energy & Fuels</i> , 2020 , 34, 15169-15194	4.1	63
563	Recent Advances in Cs ₂ AgBiBr ₆ -Based Halide Double Perovskites as Lead-Free and Inorganic Light Absorbers for Perovskite Solar Cells. <i>Energy & Fuels</i> , 2020 , 34, 10513-10528	4.1	48
562	Tuning Nitrogen in Graphitic Carbon Nitride Enabling Enhanced Performance for Polysulfide Confinement in LiS Batteries. <i>Energy & Fuels</i> , 2020 , 34, 11557-11564	4.1	11
561	Exsolved Alloy Nanoparticles Decorated Ruddlesden-Popper Perovskite as Sulfur-Tolerant Anodes for Solid Oxide Fuel Cells. <i>Energy & Fuels</i> , 2020 , 34, 11449-11457	4.1	15
560	A Function-Separated Design of Electrode for Realizing High-Performance Hybrid Zinc Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2002992	21.8	36
559	Achieving Safe and Dendrite-Suppressed Solid-State Li Batteries via a Novel Self-Extinguished Trimethyl Phosphate-Based Wetting Agent. <i>Energy & Fuels</i> , 2020 , 34, 11547-11556	4.1	11
558	Tuning the A-Site Cation Deficiency of La _{0.8} Sr _{0.2} FeO ₃ Perovskite Oxides for High-Efficiency Triiodide Reduction Reaction in Dye-Sensitized Solar Cells. <i>Energy & Fuels</i> , 2020 , 34, 11322-11329	4.1	7
557	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. <i>Energy and Environmental Science</i> , 2020 , 13, 3361-3392	35.4	151
556	Perowskitoxid-Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung. <i>Angewandte Chemie</i> , 2020 , 132, 140-158	3.6	5
555	Perovskite Oxide Based Electrodes for High-Performance Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 136-152	16.4	135
554	Utilization of low-concentration coal-bed gas to generate power using a core-shell catalyst-modified solid oxide fuel cell. <i>Renewable Energy</i> , 2020 , 147, 602-609	8.1	13
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550	Water-stable MOFs-based core-shell nanostructures for advanced oxidation towards environmental remediation. <i>Composites Part B: Engineering</i> , 2020 , 192, 107985	10	22
549	High-Performance GeTe-Based Thermoelectrics: from Materials to Devices. <i>Advanced Energy Materials</i> , 2020 , 10, 2000367	21.8	94

548	A New Concept and Strategy for Photovoltaic and Thermoelectric Power Generation Based on Anisotropic Crystal Facet Unit. <i>Advanced Functional Materials</i> , 2020 , 30, 2002606	15.6	13
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542	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. <i>ACS Catalysis</i> , 2019 , 9, 9973-10011	13.1	269
541	Advances in three-dimensional graphene-based materials: configurations, preparation and application in secondary metal (Li, Na, K, Mg, Al)-ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2030-2053	35.4	113
540	Electrochemical performance and effect of moisture on Ba _{0.5} Sr _{0.5} Sc _{0.175} Nb _{0.025} Co _{0.8} O _{3-δ} oxide as a promising electrode for proton-conducting solid oxide fuel cells. <i>Applied Energy</i> , 2019 , 238, 344-350	10.7	23
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532	A hydrophobic polymer stabilized p-Cu ₂ O nanocrystal photocathode for highly efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15593-15598	13	29
531	New reduced-temperature ceramic fuel cells with dual-ion conducting electrolyte and triple-conducting double perovskite cathode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13265-13274	13	60

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416	Enhancing Electrocatalytic Activity for Hydrogen Evolution by Strongly Coupled Molybdenum Carbon Porous Nano-Octahedrons. <i>ACS Catalysis</i> , 2017 , 7, 3540-3547	13.1	235
415	Decisive role of mixed-valence structure in colossal dielectric constant of LaFeO ₃ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3042-3049	3.8	18
414	Molecular Design of Mesoporous NiCo ₂ O ₄ and NiCo ₂ S ₄ with Sub-Micrometer-Polyhedron Architectures for Efficient Pseudocapacitive Energy Storage. <i>Advanced Functional Materials</i> , 2017 , 27, 1701229	15.6	185
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149	Electrophoretic deposition of YSZ thin-film electrolyte for SOFCs utilizing electrostatic-steric stabilized suspensions obtained via high energy ball milling. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9195-9204	6.7	25
148	Influence of high-energy ball milling of the starting powder on the sintering; microstructure and oxygen permeability of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.5}\text{Fe}_{0.5}\text{O}_{3-\delta}$ membranes. <i>Journal of Membrane Science</i> , 2011 , 366, 203-211	9.6	18
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25	Modified cellulose adsorption method for the synthesis of conducting perovskite powders for membrane application. <i>Powder Technology</i> , 2002 , 122, 26-33	5.2	18
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14	Mixed-conducting perovskite-type Sr _x Bi _{1-x} FeO _{3-δ} oxygen-permeating membranes. <i>Science in China Series B: Chemistry</i> , 2000 , 43, 421-427		10
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