List of Publications by Year in descending order

Source: //exaly.com/author-pdf/4568369/publications.pdf

Version: 2025-02-01

493 papers	45,764 citations	1616 104 h-index	2909 187 g-index
518 all docs	518 docs citations	518 times ranked	26829 citing authors

#	Article	IF	Citations
1	A high-performance cathode for the next generation of solid-oxide fuel cells. Nature, 2004, 431, 170-173.	34.3	2,972
2	Investigation of the permeation behavior and stability of a Ba0.5Sr0.5Co0.8Fe0.2O3â˜Î´ oxygen membrane. Journal of Membrane Science, 2000, 172, 177-188.	8.3	1,028
3	Enhancing Electrocatalytic Activity of Perovskite Oxides by Tuning Cation Deficiency for Oxygen Reduction and Evolution Reactions. Chemistry of Materials, 2016, 28, 1691-1697.	6.9	771
4	A membrane-based seawater electrolyser for hydrogen generation. Nature, 2022, 612, 673-678.	34.3	765
5	Non-precious-metal catalysts for alkaline water electrolysis: operando characterizations, theoretical calculations, and recent advances. Chemical Society Reviews, 2020, 49, 9154-9196.	38.2	745
6	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. ACS Catalysis, 2019, 9, 9973-10011.	12.7	697
7	Recent progress on sodium ion batteries: potential high-performance anodes. Energy and Environmental Science, 2018, 11, 2310-2340.	30.6	693
8	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. Energy and Environmental Science, 2020, 13, 3361-3392.	30.6	603
9	A comprehensive review of Li4Ti5O12-based electrodes for lithium-ion batteries: The latest advancements and future perspectives. Materials Science and Engineering Reports, 2015, 98, 1-71.	25.2	581
10	Thermal-expansion offset for high-performance fuel cell cathodes. Nature, 2021, 591, 246-251.	34.3	554
11	Flexible Znâ€“ and Liâ€“air batteries: recent advances, challenges, and future perspectives. Energy and Environmental Science, 2017, 10, 2056-2080.	30.6	545
12	Synthesis, characterization and evaluation of cation-ordered LnBaCo2O5+ as materials of oxygen permeation membranes and cathodes of SOFCs. Acta Materialia, 2008, 56, 4876-4889.	8.7	513
13	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. Applied Catalysis B: Environmental, 2018, 220, 626-634.	20.3	500
14	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. Applied Catalysis B: Environmental, 2016, 194, 7-15.	20.3	466
15	Progress in understanding and development of Ba0.5Sr0.5Co0.8Fe0.2O3â˜Î´-based cathodes for intermediate-temperature solid-oxide fuel cells: A review. Journal of Power Sources, 2009, 192, 231-246.	8.1	455
16	Advances in non-enzymatic glucose sensors based on metal oxides. Journal of Materials Chemistry B, 2016, 4, 7333-7349.	5.6	419
17	Electrochemical Water Splitting: Bridging the Gaps Between Fundamental Research and Industrial Applications. Energy and Environmental Materials, 2023, 6, .	13.9	389
18	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energyâ€Related Applications. Small Methods, 2018, 2, .	9.0	372

#	Article	IF	Citations
19	Carbon-based electrocatalysts for sustainable energy applications. Progress in Materials Science, 2021, 116, 100717.	35.8	360
20	Perovskite Oxide Based Electrodes for Highâ€Performance Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 136-152.	14.9	347
21	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis. Nature Communications, 2022, 13, .	14.2	347
22	Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. Trends in Chemistry, 2019, 1, 410-424.	8.3	325
23	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. ACS Catalysis, 2017, 7, 388-397.	12.7	300
24	Recent advances in the interface engineering of solid-state Li-ion batteries with artificial buffer layers: challenges, materials, construction, and characterization. Energy and Environmental Science, 2019, 12, 1780-1804.	30.6	291
25	The use of nitrogen-doped graphene supporting Pt nanoparticles as a catalyst for methanol electrocatalytic oxidation. Carbon, 2013, 52, 181-192.	10.3	290
26	Ruddlesdenâ€“Popper perovskites in electrocatalysis. Materials Horizons, 2020, 7, 2519-2565.	10.3	285
27	Ba effect in doped Sr(Co0.8Fe0.2)O3-Î´ on the phase structure and oxygen permeation properties of the dense ceramic membranes. Separation and Purification Technology, 2001, 25, 419-429.	8.8	278
28	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, .	22.4	270
29	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. Matter, 2020, 3, 2124-2137.	9.9	268
30	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. Chemical Society Reviews, 2021, 50, 10116-10211.	38.2	264
31	Selfâ€Catalyzed Growth of Co, Nâ€Codoped CNTs on Carbonâ€Encased CoS_x Surface: A Nobleâ€Metalâ€Free Bifunctional Oxygen Electrocatalyst for Flexible Solid Znâ€“Air Batteries. Advanced Functional Materials, 2019, 29, .	16.9	262
32	High Configuration Entropy Activated Lattice Oxygen for O₂ Formation on Perovskite Electrocatalyst. Advanced Functional Materials, 2022, 32, .	16.9	252
33	Evaluation of A-site cation-deficient (Ba0.5Sr0.5)1â^'xCo0.8Fe0.2O3â^'Î´ (x>0) perovskite as a solid-oxide fuel cell cathode. Journal of Power Sources, 2008, 182, 24-31.	8.1	251
34	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.	8.8	249
35	Unusual synergistic effect in layered Ruddlesdenâ^'Popper oxide enables ultrafast hydrogen evolution. Nature Communications, 2019, 10, .	14.2	249
36	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. Nature Communications, 2020, 11, .	14.2	249

#	Article	IF	Citations
37	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Latticeâ€Oxygen Active Sites in a Complex Oxide. Advanced Materials, 2020, 32, .	24.4	247
38	Bigger is Surprisingly Better: Agglomerates of Larger RuP Nanoparticles Outperform Benchmark Pt Nanocatalysts for the Hydrogen Evolution Reaction. Advanced Materials, 2018, 30, .	24.4	246
39	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	246
40	Highâ€Quality Ruddlesdenâ€“Popper Perovskite Film Formation for Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2021, 33, .	24.4	240
41	Synthesis of pristine and carbon-coated Li4Ti5O12 and their low-temperature electrochemical performance. Journal of Power Sources, 2010, 195, 4997-5004.	8.1	236
42	Electrolyte materials for intermediate-temperature solid oxide fuel cells. Progress in Natural Science: Materials International, 2020, 30, 764-774.	5.9	236
43	Re-evaluation of Ba0.5Sr0.5Co0.8Fe0.2O3â^Î´ perovskite as oxygen semi-permeable membrane. Journal of Membrane Science, 2007, 291, 148-156.	8.3	233
44	Water Splitting with an Enhanced Bifunctional Double Perovskite. ACS Catalysis, 2018, 8, 364-371.	12.7	230
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.	8.1	228
46	Perovskites for protonic ceramic fuel cells: a review. Energy and Environmental Science, 2022, 15, 2200-2232.	30.6	228
47	Rational design of perovskite ferrites as high-performance proton-conducting fuel cell cathodes. Nature Catalysis, 2022, 5, 777-787.	42.4	216
48	Simultaneous Power Conversion Efficiency and Stability Enhancement of Cs₂AgBiBr₆ Leadâ€Free Inorganic Perovskite Solar Cell through Adopting a Multifunctional Dye Interlayer. Advanced Functional Materials, 2020, 30, .	16.9	212
49	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	211
50	Developing a â€œWaterâ€Defendableâ€•and â€œDendriteâ€Freeâ€•Lithiumâ€Metal Anode Using a Simple and Promising GeCl₄ Pretreatment Method. Advanced Materials, 2018, 30, .	24.4	205
51	Advances in Zeolite Imidazolate Frameworks (ZIFs) Derived Bifunctional Oxygen Electrocatalysts and Their Application in Zincâ€“Air Batteries. Advanced Energy Materials, 2021, 11, .	22.4	205
52	A combined ionic Lewis acid descriptor and machine-learning approach to prediction of efficient oxygen reduction electrodes for ceramic fuel cells. Nature Energy, 2022, 7, 866-875.	50.4	200
53	A porous LiFePO4 and carbon nanotube composite. Chemical Communications, 2010, 46, 7151.	4.2	198
54	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. Nature Communications, 2020, 11, .	14.2	197

#	Article	IF	Citations
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	197
56	Flexible silicon solar cells with high power-to-weight ratios. Nature, 2024, 626, 105-110.	34.3	195
57	Assessment of Ba0.5Sr0.5Co1âˆ’yFeyO3âˆ’Î´ (y=0.0â€“1.0) for prospective application as cathode for IT-SOFCs or oxygen permeating membrane. Electrochimica Acta, 2007, 52, 7343-7351.	5.4	193
58	Facile spray-drying/pyrolysis synthesis of coreâ€“shell structure graphite/silicon-porous carbon composite as a superior anode for Li-ion batteries. Journal of Power Sources, 2014, 248, 721-728.	8.1	188
59	A New Durable Surface Nanoparticlesâ€Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere. Advanced Materials, 2022, 34, .	24.4	188
60	Recent advances in anion-doped metal oxides for catalytic applications. Journal of Materials Chemistry A, 2019, 7, 7280-7300.	9.3	187
61	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, .	24.4	187
62	Advances in three-dimensional graphene-based materials: configurations, preparation and application in secondary metal (Li, Na, K, Mg, Al)-ion batteries. Energy and Environmental Science, 2019, 12, 2030-2053.	30.6	185
63	Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. Small, 2021, 17, .	11.5	184
64	Surface exchange and bulk diffusion properties of Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’Î´ mixed conductor. International Journal of Hydrogen Energy, 2011, 36, 6948-6956.	9.2	183
65	Single-Atom MnN₅ Catalytic Sites Enable Efficient Peroxymonosulfate Activation by Forming Highly Reactive Mn(IV)â€“Oxo Species. Environmental Science & Technology, 2023, 57, 4266-4275.	11.3	182
66	Evaluation of Ba0.5Sr0.5Co0.8Fe0.2O3âˆ’Î´ as a potential cathode for an anode-supported proton-conducting solid-oxide fuel cell. Journal of Power Sources, 2008, 180, 15-22.	8.1	179
67	Electrochemistry and energy conversion features of protonic ceramic cells with mixed ionic-electronic electrolytes. Energy and Environmental Science, 2022, 15, 439-465.	30.6	178
68	Selenic Acid Etching Assisted Vacancy Engineering for Designing Highly Active Electrocatalysts toward the Oxygen Evolution Reaction. Advanced Materials, 2021, 33, .	24.4	177
69	Rational Design of Agâ€Based Catalysts for the Electrochemical CO₂ Reduction to CO: A Review. ChemSusChem, 2020, 13, 39-58.	6.3	174
70	The BaCe_{0.16}Y_{0.04}Fe_{0.8}O_{3âˆ’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	170
71	New reduced-temperature ceramic fuel cells with dual-ion conducting electrolyte and triple-conducting double perovskite cathode. Journal of Materials Chemistry A, 2019, 7, 13265-13274.	9.3	168
72	Boosting performance of lanthanide magnetism perovskite for advanced oxidation through lattice doping with catalytically inert element. Chemical Engineering Journal, 2019, 355, 721-730.	11.9	168

#	Article	IF	Citations
73	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.	5.3	166
74	Synthesis, oxygen permeation study and membrane performance of a Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ oxygen-permeable dense ceramic reactor for partial oxidation of methane to syngas. Separation and Purification Technology, 2001, 25, 97-116.	8.8	164
75	Boosting the Activity of BaCo_{0.4}Fe_{0.4}Zr_{0.1}Y_{0.1}O_{3â^'}_{Î´} Perovskite for Oxygen Reduction Reactions at Lowâ€toâ€Intermediate Temperatures through Tuning Bâ€Site Cation Deficiency. Advanced Energy Materials, 2019, 9, .	22.4	163
76	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. RSC Advances, 2011, 1, 1661.	4.5	158
77	Bifunctionality from Synergy: CoP Nanoparticles Embedded in Amorphous CoOx Nanoplates with Heterostructures for Highly Efficient Water Electrolysis. Advanced Science, 2018, 5, .	12.7	158
78	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	157
79	Highâ€Entropy Materials for Water Electrolysis. Energy Technology, 2022, 10, .	3.4	152
80	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry, 2010, 20, 9619.	6.8	147
81	Rationally Designed Hierarchically Structured Tungsten Nitride and Nitrogenâ€Rich Grapheneâ€Like Carbon Nanocomposite as Efficient Hydrogen Evolution Electrocatalyst. Advanced Science, 2018, 5, .	12.7	146
82	Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. Chemical Society Reviews, 2021, 50, 12744-12787.	38.2	146
83	Modulating metalâ€“organic frameworks for catalyzing acidic oxygen evolution for proton exchange membrane water electrolysis. SusMat, 2021, 1, 460-481.	19.3	146
84	SrCo_{0.9}Ti_{0.1}O_{3â^'Î´} As a New Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Electrolyte with Stable Performance. ACS Applied Materials & Interfaces, 2015, 7, 17663-17670.	8.1	139
85	Perovskiteâ€Based Electrocatalysts for Costâ€Effective Ultrahighâ€Currentâ€Density Water Splitting in Anion Exchange Membrane Electrolyzer Cell. Small Methods, 2022, 6, .	9.0	139
86	New Undisputed Evidence and Strategy for Enhanced Latticeâ€Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. Advanced Science, 2022, 9, .	12.7	137
87	Systematic evaluation of Co-free LnBaFe2O5+Î´ (Ln=Lanthanides or Y) oxides towards the application as cathodes for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2012, 78, 466-474.	5.4	134
88	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, .	16.9	134
89	A universal chemical-induced tensile strain tuning strategy to boost oxygen-evolving electrocatalysis on perovskite oxides. Applied Physics Reviews, 2022, 9, .	10.7	134
90	Identifying a Universal Activity Descriptor and a Unifying Mechanism Concept on Perovskite Oxides for Green Hydrogen Production. Advanced Materials, 2023, 35, .	24.4	133

#	Article	IF	Citations
91	Cation-Deficient Perovskites for Clean Energy Conversion. Accounts of Materials Research, 2021, 2, 477-488.	12.8	128
92	Process investigation, electrochemical characterization and optimization of LiFePO4/C composite from mechanical activation using sucrose as carbon source. Electrochimica Acta, 2009, 54, 2861-2868.	5.4	127
93	Barium- and strontium-enriched (Ba0.5Sr0.5)1+xCo0.8Fe0.2O3â˜Î´ oxides as high-performance cathodes for intermediate-temperature solid-oxide fuel cells. Acta Materialia, 2008, 56, 2687-2698.	8.7	126
94	Carbon-based electrocatalysts for rechargeable Znâ€“air batteries: design concepts, recent progress and future perspectives. Energy and Environmental Science, 2024, 17, 386-424.	30.6	126
95	Flexible, Flameâ€Resistant, and Dendriteâ€Impermeable Gelâ€Polymer Electrolyte for Liâ€“O₂/Air Batteries Workable Under Hurdle Conditions. Small, 2018, 14, .	11.5	122
96	Synthesis of nanocrystalline conducting composite oxides based on a non-ion selective combined complexing process for functional applications. Journal of Alloys and Compounds, 2006, 426, 368-374.	6.0	118
97	Systematic investigation on new SrCo1â˜'yNbyO3â˜Î´ ceramic membranes with high oxygen semi-permeability. Journal of Membrane Science, 2008, 323, 436-443.	8.3	118
98	Novel SrSc0.2Co0.8O3â˜' as a cathode material for low temperature solid-oxide fuel cell. Electrochemistry Communications, 2008, 10, 1647-1651.	3.9	118
99	A Functionâ€Separated Design of Electrode for Realizing Highâ€Performance Hybrid Zinc Battery. Advanced Energy Materials, 2020, 10, .	22.4	118
100	Fast operando spectroscopy tracking in situ generation of rich defects in silver nanocrystals for highly selective electrochemical CO2 reduction. Nature Communications, 2021, 12, .	14.2	117
101	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.	9.3	116
102	Nanostructured Co-Mn containing perovskites for degradation of pollutants: Insight into the activity and stability. Journal of Hazardous Materials, 2018, 349, 177-185.	12.4	115
103	Scalable synthesis of self-standing sulfur-doped flexible graphene films as recyclable anode materials for low-cost sodium-ion batteries. Carbon, 2016, 107, 67-73.	10.3	114
104	Investigation on POM reaction in a new perovskite membrane reactor. Catalysis Today, 2001, 67, 3-13.	4.7	112
105	Recent Advances in Filler Engineering of Polymer Electrolytes for Solid-State Li-Ion Batteries: A Review. Energy & Fuels, 2020, 34, 9189-9207.	5.3	110
106	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.	18.1	110
107	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	109
108	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, .	4.1	108

#	Article	IF	Citations
109	sp²/sp³ Framework from Diamond Nanocrystals: A Key Bridge of Carbonaceous Structure to Carbocatalysis. ACS Catalysis, 2019, 9, 7494-7519.	12.7	107
110	Rational Design of Ruthenium and Cobalt-Based Composites with Rich Metalâ€“Insulator Interfaces for Efficient and Stable Overall Water Splitting in Acidic Electrolyte. ACS Applied Materials & Interfaces, 2019, 11, 47894-47903.	8.1	106
111	Self-Recovery Chemistry and Cobalt-Catalyzed Electrochemical Deposition of Cathode for Boosting Performance of Aqueous Zinc-Ion Batteries. IScience, 2020, 23, 100943.	3.8	105
112	Synthesis and oxygen permeation study of novel perovskite-type BaBixCo0.2Fe0.8â^'xO3â^'Î´ ceramic membranes. Journal of Membrane Science, 2000, 164, 167-176.	8.3	104
113	Green synthesis of mesoporous ZnFe2O4/C composite microspheres as superior anode materials for lithium-ion batteries. Journal of Power Sources, 2014, 258, 305-313.	8.1	104
114	Ultrahigh-performance tungsten-doped perovskites for the oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 9854-9859.	9.3	103
115	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.	7.0	103
116	Fineâ€Tuning Surface Properties of Perovskites via Nanocompositing with Inert Oxide toward Developing Superior Catalysts for Advanced Oxidation. Advanced Functional Materials, 2018, 28, .	16.9	102
117	Recent Progress on Structurally Ordered Materials for Electrocatalysis. Advanced Energy Materials, 2021, 11, .	22.4	101
118	Properties and performance of Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´+Sm0.2Ce0.8O1.9 composite cathode. Journal of Power Sources, 2008, 179, 60-68.	8.1	100
119	Synergistic dual-phase air electrode enables high and durable performance of reversible proton ceramic electrochemical cells. Nature Communications, 2024, 15, .	14.2	100
120	Synergistically enhanced hydrogen evolution electrocatalysis by in situ exsolution of metallic nanoparticles on perovskites. Journal of Materials Chemistry A, 2018, 6, 13582-13587.	9.3	99
121	A Comparative Study of Oxygen Reduction Reaction on Bi- and La-Doped SrFeO[sub 3â^'Î´] Perovskite Cathodes. Journal of the Electrochemical Society, 2011, 158, B132.	3.1	98
122	Recent advances and perspectives of fluorite and perovskite-based dual-ion conducting solid oxide fuel cells. Journal of Energy Chemistry, 2021, 57, 406-427.	14.2	98
123	Understanding the bifunctional catalytic ability of electrocatalysts for oxygen evolution reaction and urea oxidation Reaction: Recent advances and perspectives. Chemical Engineering Journal, 2023, 471, 144660.	11.9	98
124	Spherical Ruthenium Disulfide-Sulfur-Doped Graphene Composite as an Efficient Hydrogen Evolution Electrocatalyst. ACS Applied Materials & Interfaces, 2018, 10, 34098-34107.	8.1	97
125	Stable direct-methane solid oxide fuel cells with calcium-oxide-modified nickel-based anodes operating at reduced temperatures. Applied Energy, 2016, 164, 563-571.	11.3	96
126	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	95

#	Article	IF	Citations
127	Cobalt-free SrNbxFe1â^'xO3â^'Î´ (xÂ=Â0.05, 0.1 and 0.2) perovskite cathodes for intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2015, 298, 209-216.	8.1	94
128	Realizing Ultrafast Oxygen Evolution by Introducing Proton Acceptor into Perovskites. Advanced Energy Materials, 2019, 9, .	22.4	94
129	A Green Route to a Na₂FePO₄F-Based Cathode for Sodium Ion Batteries of High Rate and Long Cycling Life. ACS Applied Materials & Interfaces, 2017, 9, 16280-16287.	8.1	92
130	A new cathode for solid oxide fuel cells capable of in situ electrochemical regeneration. Journal of Materials Chemistry, 2011, 21, 15343.	6.8	91
131	Toward Enhanced Oxygen Evolution on Perovskite Oxides Synthesized from Different Approaches: A Case Study of Ba 0.5 Sr 0.5 Co 0.8 Fe 0.2 O 3â^'Î´. Electrochimica Acta, 2016, 219, 553-559.	5.4	91
132	Superâ€Exchange Interaction Induced Overall Optimization in Ferromagnetic Perovskite Oxides Enables Ultrafast Water Oxidation. Small, 2019, 15, .	11.5	90
133	Roadmap for Sustainable Mixed Ionicâ€Electronic Conducting Membranes. Advanced Functional Materials, 2022, 32, .	16.9	90
134	A review of progress in proton ceramic electrochemical cells: material and structural design, coupled with value-added chemical production. Energy and Environmental Science, 2023, 16, 5721-5770.	30.6	90
135	Perovskite Oxides in Catalytic Combustion of Volatile Organic Compounds: Recent Advances and Future Prospects. Energy and Environmental Materials, 2022, 5, 751-776.	13.9	89
136	Rational Design of a Waterâ€Storable Hierarchical Architecture Decorated with Amorphous Barium Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance. Advanced Science, 2017, 4, .	12.7	88
137	Covalent Organic Framework (COF)â€Based Hybrids for Electrocatalysis: Recent Advances and Perspectives. Small Methods, 2021, 5, .	9.0	88
138	Boosting the oxygen evolution reaction activity of a perovskite through introducing multi-element synergy and building an ordered structure. Journal of Materials Chemistry A, 2019, 7, 9924-9932.	9.3	87
139	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, .	22.4	87
140	Morphology control and electronic tailoring of CoxAy (AÂ=ÂP, S, Se) electrocatalysts for water splitting. Chemical Engineering Journal, 2023, 460, 141674.	11.9	87
141	Structural, electrical and electrochemical characterizations of SrNb0.1Co0.9O3â^'Î´ as a cathode of solid oxide fuel cells operating below 600Â°C. International Journal of Hydrogen Energy, 2010, 35, 1356-1366.	9.2	86
142	Different Effect of the Atmospheres on the Phase Formation and Performance of Li₄Ti₅O₁₂ Prepared from Ball-Milling-Assisted Solid-Phase Reaction with Pristine and Carbon-Precoated TiO₂ as Starting Materials. Journal of Physical Chemistry C, 2011, 115, 4943-4952.	3.2	86
143	Postsynthesis Growth of CoOOH Nanostructure on SrCo_{0.6}Ti_{0.4}O_{3â^'Î´} Perovskite Surface for Enhanced Degradation of Aqueous Organic Contaminants. ACS Sustainable Chemistry and Engineering, 2018, 6, 15737-15748.	7.0	85
144	Nano La_{0.6}Ca_{0.4}Fe_{0.8}Ni_{0.2}O_{3â^'Î´} decorated porous doped ceria as a novel cobalt-free electrode for â€œsymmetricalâ€•solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 19526-19535.	9.3	84

#	Article	IF	Citations
145	Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Directâ€Ammonia Solid Oxide Fuel Cells. Small, 2020, 16, .	11.5	84
146	Advances in modeling and simulation of Liâ€“air batteries. Progress in Energy and Combustion Science, 2017, 62, 155-189.	40.8	83
147	Recent progress in metalâ€“organic frameworks for lithiumâ€“sulfur batteries. Polyhedron, 2018, 155, 464-484.	2.4	83
148	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.		82
149	Catalytic Selfâ€Assembled Air Electrode for Highly Active and Durable Reversible Protonic Ceramic Electrochemical Cells. Advanced Functional Materials, 2022, 32, .	16.9	82
150	Ruddlesdenâ€“Popper Perovskite Oxides for Photocatalysis-Based Water Splitting and Wastewater Treatment. Energy & Fuels, 2020, 34, 9208-9221.	5.3	81
151	Recent Advances in the Development of Anode Materials for Solid Oxide Fuel Cells Utilizing Liquid Oxygenated Hydrocarbon Fuels: A Mini Review. Energy Technology, 2019, 7, 33-44.	3.4	80
152	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	80
153	B-Site Cation-Ordered Double-Perovskite Oxide as an Outstanding Electrode Material for Supercapacitive Energy Storage Based on the Anion Intercalation Mechanism. ACS Applied Materials & Interfaces, 2018, 10, 9415-9423.	8.1	79
154	Li4Ti5O12/Sn composite anodes for lithium-ion batteries: Synthesis and electrochemical performance. Journal of Power Sources, 2010, 195, 8244-8250.	8.1	78
155	A 3D porous architecture composed of TiO2 nanotubes connected with a carbon nanofiber matrix for fast energy storage. Journal of Materials Chemistry A, 2013, 1, 12310.	9.3	78
156	From scheelite BaMoO4 to perovskite BaMoO3: Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. Composites Part B: Engineering, 2020, 198, 108214.	12.9	78
157	Grain boundary engineering: An emerging pathway toward efficient electrocatalysis. InformaÄnÃ-MateriÃ¡ly, 2024, 6, .	21.1	78
158	A comparative study of Sm0.5Sr0.5MO3â^'Î´ (MÂ=ÂCo and Mn) as oxygen reduction electrodes for solid oxide fuel cells. International Journal of Hydrogen Energy, 2012, 37, 4377-4387.	9.2	77
159	Recent advances of Li7La3Zr2O12-based solid-state lithium batteries towards high energy density. Energy Storage Materials, 2022, 49, 299-338.	18.1	77
160	SrCo1â^'xTixO3â^'Î´ perovskites as excellent catalysts for fast degradation of water contaminants in neutral and alkaline solutions. Scientific Reports, 2017, 7, .	3.7	76
161	Emerging Strategies for Developing High-Performance Perovskite-Based Materials for Electrochemical Water Splitting. Energy & Fuels, 2020, 34, 10547-10567.	5.3	76
162	Defects-rich porous carbon microspheres as green electrocatalysts for efficient and stable oxygen-reduction reaction over a wide range of pH values. Chemical Engineering Journal, 2021, 406, 126883.	11.9	76

#	Article	IF	Citations
163	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	75
164	Fundamental Understanding and Applications of Protonic Yâ€•and Ybâ€Coped Ba(Ce,Zr)O₃ Perovskites: Stateâ€ofâ€theâ€Art and Perspectives. Advanced Energy Materials, 2023, 13, .	22.4	74
165	Silver-modified Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ as cathodes for a proton conducting solid-oxide fuel cell. International Journal of Hydrogen Energy, 2010, 35, 8281-8288.	9.2	73
166	The solid-state chelation synthesis of LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ as a cathode material for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 10536-10544.	9.3	72
167	Anode-supported thin-film fuel cells operated in a single chamber configuration 2T-I-12. Solid State Ionics, 2004, 175, 39-46.	3.1	71
168	Building Ruddlesdenâ€“Popper and Single Perovskite Nanocomposites: A New Strategy to Develop Highâ€Performance Cathode for Protonic Ceramic Fuel Cells. Small, 2021, 17, .	11.5	71
169	Electrospinning based fabrication and performance improvement of film electrodes for lithium-ion batteries composed of TiO2 hollow fibersâ€. Journal of Materials Chemistry, 2011, 21, 15041.	6.8	70
170	A novel method to enhance rate performance of an Al-doped Li4Ti5O12 electrode by post-synthesis treatment in liquid formaldehyde at room temperature. Journal of Materials Chemistry, 2012, 22, 8013.	6.8	69
171	In situ fabrication of (Sr,La)FeO₄ with CoFe alloy nanoparticles as an independent catalyst layer for direct methane-based solid oxide fuel cells with a nickel cermet anode. Journal of Materials Chemistry A, 2016, 4, 13997-14007.	9.3	69
172	Perovskite oxide/carbon nanotube hybrid bifunctional electrocatalysts for overall water splitting. Electrochimica Acta, 2018, 286, 47-54.	5.4	69
173	Synthesis of well-crystallized Li4Ti5O12 nanoplates for lithium-ion batteries with outstanding rate capability and cycling stability. Journal of Materials Chemistry A, 2013, 1, 13233.	9.3	68
174	Selfâ€catalyzed formation of strongly interconnected multiphase molybdenumâ€based composites for efficient hydrogen evolution. , 2022, 4, 77-87.		68
175	Fuel cells that operate at 300Â° to 500Â°C. Science, 2020, 369, 138-139.	19.5	67
176	Grafting of Lithiophilic and Electronâ€Blocking Interlayer for Garnetâ€Based Solidâ€State Li Metal Batteries via Oneâ€Step Anhydrous Polyâ€Phosphoric Acid Postâ€Treatment. Advanced Functional Materials, 2023, 33, .	16.9	67
177	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	66
178	Exceptionally Robust Faceâ€Sharing Motifs Enable Efficient and Durable Water Oxidation. Advanced Materials, 2021, 33, .	24.4	66
179	Rational Design of Superior Electrocatalysts for Water Oxidation: Crystalline or Amorphous Structure?. Small Science, 2021, 1, .	7.8	65
180	High-Performance Proton-Conducting Fuel Cell with B-Site-Deficient Perovskites for All Cell Components. Energy & Fuels, 2020, 34, 11464-11471.	5.3	64

#	Article	IF	Citations
181	A smart lithiophilic polymer filler in gel polymer electrolyte enables stable and dendrite-free Li metal anode. Journal of Materials Chemistry A, 2020, 8, 9733-9742.	9.3	64
182	Ni2+/Co2+ doped Au-Fe7S8 nanoplatelets with exceptionally high oxygen evolution reaction activity. Nano Energy, 2021, 89, 106463.	16.4	64
183	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	64
184	New Ba0.5Sr0.5Co0.8Fe0.2O3â^Î´+Co3O4 composite electrode for IT-SOFCs with improved electrical conductivity and catalytic activity. Electrochemistry Communications, 2011, 13, 197-199.	3.9	63
185	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, .	30.3	63
186	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	63
187	Slightly ruthenium doping enables better alloy nanoparticle exsolution of perovskite anode for high-performance direct-ammonia solid oxide fuel cells. Journal of Materials Science and Technology, 2022, 125, 51-58.	13.2	63
188	Optimizing the modification method of zinc-enhanced sintering of BaZr0.4Ce0.4Y0.2O3â^Î´-based electrolytes for application in an anode-supported protonic solid oxide fuel cell. International Journal of Hydrogen Energy, 2010, 35, 5611-5620.	9.2	62
189	Effect of milling method and time on the properties and electrochemical performance of LiFePO4/C composites prepared by ball milling and thermal treatment. Electrochimica Acta, 2010, 55, 2653-2661.	5.4	62
190	Hierarchical carbon-coated acanthosphere-like Li4Ti5O12 microspheres for high-power lithium-ion batteries. Journal of Power Sources, 2016, 314, 18-27.	8.1	62
191	Ternary BaCaZrTi perovskite oxide piezocatalysts dancing for efficient hydrogen peroxide generation. Nano Energy, 2022, 98, 107251.	16.4	62
192	Structure, sinterability, chemical stability and conductivity of proton-conducting BaZr0.6M0.2Y0.2O3â^Î´ electrolyte membranes: The effect of the M dopant. Journal of Membrane Science, 2014, 467, 100-108.	8.3	61
193	Earthâ€Abundant Silicon for Facilitating Water Oxidation over Ironâ€Based Perovskite Electrocatalyst. Advanced Materials Interfaces, 2018, 5, .	4.1	61
194	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	61
195	Realizing High and Stable Electrocatalytic Oxygen Evolution for Ironâ€Based Perovskites by Coâ€Dopingâ€Induced Structural and Electronic Modulation. Advanced Functional Materials, 2022, 32, .	16.9	61
196	Solution combustion synthesis of high-rate performance carbon-coated lithium iron phosphate from inexpensive iron (<scp>iii</scp>) raw material. Journal of Materials Chemistry, 2012, 22, 2900-2907.	6.8	60
197	A comparative study of surface segregation and interface of La0Â·6Sr0Â·4Co0Â·2Fe0Â·8O3-Î´ electrode on GDC and YSZ electrolytes of solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 2606-2616.	9.2	60
198	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.	18.1	60

#	Article	IF	Citations
199	A mechanism study of synthesis of Li4Ti5O12 from TiO2 anatase. Journal of Alloys and Compounds, 2010, 505, 367-373.	6.0	59
200	Impregnated LaCo0.3Fe0.67Pd0.03O3-Î´ as a promising electrocatalyst for â€œsymmetricalâ€• intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2016, 306, 92-99.	8.1	59
201	Advances in Ceramic Thin Films Fabricated by Pulsed Laser Deposition for Intermediate-Temperature Solid Oxide Fuel Cells. Energy & Fuels, 2020, 34, 10568-10582.	5.3	59
202	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.	8.1	59
203	Two-dimensional Dion-Jacobson halide perovskites as new-generation light absorbers for perovskite solar cells. Renewable and Sustainable Energy Reviews, 2022, 166, 112614.	17.9	59
204	Nanotechnologies in ceramic electrochemical cells. Chemical Society Reviews, 2024, 53, 450-501.	38.2	59
205	Evaluation of Ba0.6Sr0.4Co0.9Nb0.1O3â^'Î´ mixed conductor as a cathode for intermediate-temperature oxygen-ionic solid-oxide fuel cells. Journal of Power Sources, 2010, 195, 5176-5184.	8.1	58
206	Efficient Wastewater Remediation Enabled by Self-Assembled Perovskite Oxide Heterostructures with Multiple Reaction Pathways. ACS Sustainable Chemistry and Engineering, 2020, 8, 6033-6042.	7.0	58
207	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	58
208	Understanding the doping effect toward the design of CO2-tolerant perovskite membranes with enhanced oxygen permeability. Journal of Membrane Science, 2016, 519, 11-21.	8.3	57
209	Development of nickel based cermet anode materials in solid oxide fuel cells â€“ Now and future. Materials Reports Energy, 2021, 1, 100003.	4.0	57
210	Interfacial La Diffusion in the CeO₂/LaFeO₃ Hybrid for Enhanced Oxygen Evolution Activity. ACS Applied Materials & Interfaces, 2021, 13, 2799-2806.	8.1	57
211	Dense Platinum/Nickel Oxide Heterointerfaces with Abundant Oxygen Vacancies Enable Ampereâ€Level Current Density Ultrastable Hydrogen Evolution in Alkaline. Advanced Functional Materials, 2023, 33, .	16.9	57
212	Engineering Charge Redistribution within Perovskite Oxides for Synergistically Enhanced Overall Water Splitting. , 2021, 3, 1258-1265.		56
213	Amorphous Vâ€“Oâ€“C composite nanofibers electrospun from solution precursors as binder- and conductive additive-free electrodes for supercapacitors with outstanding performance. Nanoscale, 2013, 5, 12589.	5.1	55
214	A hydrophobic polymer stabilized p-Cu₂O nanocrystal photocathode for highly efficient solar water splitting. Journal of Materials Chemistry A, 2019, 7, 15593-15598.	9.3	55
215	Ultralong Cycle Life Liâ€“O₂ Battery Enabled by a MOF-Derived Rutheniumâ€“Carbon Composite Catalyst with a Durable Regenerative Surface. ACS Applied Materials & Interfaces, 2019, 11, 20091-20097.	8.1	55
216	Water-stable MOFs-based core-shell nanostructures for advanced oxidation towards environmental remediation. Composites Part B: Engineering, 2020, 192, 107985.	12.9	55

#	Article	IF	Citations
217	Realizing Simultaneous Detrimental Reactions Suppression and Multiple Benefits Generation from Nickel Doping toward Improved Protonic Ceramic Fuel Cell Performance. Small, 2022, 18, .	11.5	55
218	Synergistically boosting the elementary reactions over multiheterogeneous ordered macroporous Mo₂C/NCâ€Ru for highly efficient alkaline hydrogen evolution. , 2022, 4, 856-866.		55
219	BaCo_{0.6}Fe_{0.3}Sn_{0.1}O_{3â^'Î´}perovskite as a new superior oxygen reduction electrode for intermediate-to-low temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 15078.	9.3	54
220	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.	5.3	54
221	Lithium and lanthanum promoted Ni-Al2O3 as an active and highly coking resistant catalyst layer for solid-oxide fuel cells operating on methane. Journal of Power Sources, 2011, 196, 90-97.	8.1	53
222	A novel approach for substantially improving the sinterability of BaZr0.4Ce0.4Y0.2O3â^'Î´ electrolyte for fuel cells by impregnating the green membrane with zinc nitrate as a sintering aid. Journal of Membrane Science, 2013, 437, 189-195.	8.3	53
223	Cobalt-free SrFe0.9Ti0.1O3â^'Î´ as a high-performance electrode material for oxygen reduction reaction on doped ceria electrolyte with favorable CO2 tolerance. Journal of the European Ceramic Society, 2015, 35, 2531-2539.	6.2	53
224	An â€œelectronegativeâ€•bifunctional coating layer: simultaneous regulation of polysulfide and Li-ion adsorption sites for long-cycling and â€œdendrite-freeâ€•Liâ€“S batteries. Journal of Materials Chemistry A, 2019, 7, 22463-22474.	9.3	53
225	Activation-free supercapacitor electrode based on surface-modified Sr2CoMo1-xNixO6-Î´ perovskite. Chemical Engineering Journal, 2020, 390, 124645.	11.9	53
226	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	53
227	Dynamic Reversible Evolution of Solid Electrolyte Interface in Nonflammable Triethyl Phosphate Electrolyte Enabling Safe and Stable Potassiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	16.9	53
228	A self-adhesive graphene nanoscroll/nanosheet paper with confined Fe1â^'xS/Fe3O4 hetero-nanoparticles for high-performance anode material of flexible Li-ion batteries. Chemical Engineering Journal, 2019, 370, 536-546.	11.9	52
229	Combined Cornerâ€Sharing and Edgeâ€Sharing Networks in Hybrid Nanocomposite with Unusual Latticeâ€Oxygen Activation for Efficient Water Oxidation. Advanced Functional Materials, 2022, 32, .	16.9	52
230	Bismuth doped Sr2Fe1.5Mo0.5O6- double perovskite as a robust fuel electrode in ceramic oxide cells for direct CO2 electrolysis. Journal of Materials Science and Technology, 2023, 164, 160-167.	13.2	52
231	Elevated-temperature bio-ethanol-assisted water electrolysis for efficient hydrogen production. Chemical Engineering Journal, 2022, 434, 134699.	11.9	51
232	Ex Situ Reconstruction-Shaped Ir/CoO/Perovskite Heterojunction for Boosted Water Oxidation Reaction. ACS Catalysis, 2023, 13, 5007-5019.	12.7	51
233	A single-/double-perovskite composite with an overwhelming single-perovskite phase for the oxygen reduction reaction at intermediate temperatures. Journal of Materials Chemistry A, 2017, 5, 24842-24849.	9.3	50
234	Molybdenum and Niobium Codoped B-Site-Ordered Double Perovskite Catalyst for Efficient Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 16939-16942.	8.1	50

#	Article	IF	Citations
235	Towards highly stable and efficient planar perovskite solar cells: Materials development, defect control and interfacial engineering. Chemical Engineering Journal, 2021, 420, 127599.	11.9	50
236	Optimization of two-dimensional solid-state electrolyteâ€“anode interface by integrating zinc into composite anode with dual-conductive phases. Green Carbon, 2024, 2, 94-100.	13.5	50
237	A Selfâ€Assembled Heteroâ€Structured Inverseâ€Spinel and Antiâ€Perovskite Nanocomposite for Ultrafast Water Oxidation. Small, 2020, 16, .	11.5	49
238	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	49
239	New Nanocomposites Derived from Cation-Nonstoichiometric Ba_x(Co, Fe, Zr,) Tj ETQq1 1 0.784314 rgBT /Overlock 2985-2994.		49
240	Coking-free direct-methanol-flame fuel cell with traditional nickelâ€“cermet anode. International Journal of Hydrogen Energy, 2010, 35, 7971-7981.	9.2	48
241	Highly Active and Stable Cobalt-Free Hafnium-doped SrFe_{0.9}Hf_{0.1}O_{3â^'Î´} Perovskite Cathode for Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2018, 1, 2134-2142.	5.4	48
242	Facile Strategy to Low-Cost Synthesis of Hierarchically Porous, Active Carbon of High Graphitization for Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 21573-21581.	8.1	48
243	Morphology, crystal structure and electronic state one-step co-tuning strategy towards developing superior perovskite electrocatalysts for water oxidation. Journal of Materials Chemistry A, 2019, 7, 19228-19233.	9.3	47
244	Efficient Water Splitting Actualized through an Electrochemistryâ€Induced Heteroâ€Structured Antiperovskite/(Oxy)Hydroxide Hybrid. Small, 2020, 16, .	11.5	47
245	Exsolved Alloy Nanoparticles Decorated Ruddlesdenâ€“Popper Perovskite as Sulfur-Tolerant Anodes for Solid Oxide Fuel Cells. Energy & Fuels, 2020, 34, 11449-11457.	5.3	47
246	A mini-review of noble-metal-free electrocatalysts for overall water splitting in non-alkaline electrolytes. Materials Reports Energy, 2021, 1, 100024.	4.0	47
247	Recent advances in ZnO-based photosensitizers: Synthesis, modification, and applications in photodynamic cancer therapy. Journal of Colloid and Interface Science, 2022, 621, 440-463.	9.9	47
248	Multiscale Engineering of Nonprecious Metal Electrocatalyst for Realizing Ultrastable Seawater Splitting in Weakly Alkaline Solution. Advanced Science, 2022, 9, .	12.7	47
249	A fundamental understanding of structure evolution in the synthesis of hard carbon from coal tar pitch for high-performance sodium storage. Journal of Materials Chemistry A, 2023, 11, 26727-26741.	9.3	47
250	Tuning synergy between nickel and iron in Ruddlesdenâ€“Popper perovskites through controllable crystal dimensionalities towards enhanced oxygenâ€evolving activity and stability. , 2024, 6, .		47
251	Facile single-step ammonia heat-treatment and quenching process for the synthesis of improved Pt/N-graphene catalysts. Applied Surface Science, 2013, 266, 433-439.	6.6	46
252	3D coreâ€“shell architecture from infiltration and beneficial reactive sintering as highly efficient and thermally stable oxygen reduction electrode. Journal of Materials Chemistry A, 2014, 2, 1284-1293.	9.3	46

#	Article	IF	Citations
253	Multi-active sites derived from a single/double perovskite hybrid for highly efficient water oxidation. Electrochimica Acta, 2019, 299, 926-932.	5.4	46
254	Synergistic effects in ordered Co oxides for boosting catalytic activity in advanced oxidation processes. Applied Catalysis B: Environmental, 2021, 297, 120463.	20.3	46
255	Towards practically accessible aprotic Li-air batteries: Progress and challenges related to oxygen-permeable membranes and cathodes. Energy Storage Materials, 2022, 45, 869-902.	18.1	46
256	Screening Spinel Oxide Supports for RuO₂ to Boost Bifunctional Electrocatalysts for Advanced Znâ€“Air Batteries. Advanced Functional Materials, 2024, 34, .	16.9	46
257	A comprehensive evaluation of a Niâ€“Al2O3 catalyst as a functional layer of solid-oxide fuel cell anode. Journal of Power Sources, 2010, 195, 402-411.	8.1	45
258	A high performance composite cathode with enhanced CO2 resistance for low and intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2018, 405, 124-131.	8.1	45
259	New TiO₂â€Based Oxide for Catalyzing Alkaline Hydrogen Evolution Reaction with Noble Metalâ€Like Performance. Small Methods, 2021, 5, .	9.0	45
260	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	45
261	Preparation Strategies of p-Type Cuprous Oxide and Its Solar Energy Conversion Performance. Energy & Fuels, 2021, 35, 17334-17352.	5.3	45
262	First investigation of additive engineering for highly efficient Cs2AgBiBr6-based lead-free inorganic perovskite solar cells. Applied Physics Reviews, 2021, 8, .	10.7	45
263	Robust bifunctional phosphorus-doped perovskite oxygen electrode for reversible proton ceramic electrochemical cells. Chemical Engineering Journal, 2022, 450, 137787.	11.9	45
264	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	45
265	Prediction of perovskite oxygen vacancies for oxygen electrocatalysis at different temperatures. Nature Communications, 2024, 15, .	14.2	45
266	A highly sensitive perovskite oxide sensor for detection of p-phenylenediamine in hair dyes. Journal of Hazardous Materials, 2019, 369, 699-706.	12.4	44
267	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. Chemical Engineering Journal, 2021, 417, 128105.	11.9	43
268	Combustion-synthesized Ruâ€“Al2O3 composites as anode catalyst layer of a solid oxide fuel cell operating on methane. International Journal of Hydrogen Energy, 2011, 36, 755-764.	9.2	42
269	Renewable acetic acid in combination with solid oxide fuel cells for sustainable clean electric power generation. Journal of Materials Chemistry A, 2013, 1, 5620.	9.3	42
270	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. Chemistry of Materials, 2021, 33, 5233-5241.	6.9	42

#	Article	IF	Citations
271	Perovskite oxides as electrocatalysts for water electrolysis: From crystalline to amorphous. , 2024, 6, .		42
272	High performance electrode for electrochemical oxygen generator cell based on solid electrolyte ion transport membrane. Electrochimica Acta, 2007, 52, 6297-6303.	5.4	41
273	Low thermal-expansion and high proton uptake for protonic ceramic fuel cell cathode. Journal of Power Sources, 2022, 530, 231321.	8.1	41
274	Ballmilling-Assisted Synthesis and Electrochemical Performance of LiFePO[sub 4]/C for Lithium-Ion Battery Adopting Citric Acid as Carbon Precursor. Journal of the Electrochemical Society, 2009, 156, A802.	3.1	40
275	Enhancing the triiodide reduction activity of a perovskite-based electrocatalyst for dye-sensitized solar cells through exsolved silver nanoparticles. Journal of Materials Chemistry A, 2019, 7, 17489-17497.	9.3	40
276	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. Applied Physics Reviews, 2020, 7, .	10.7	40
277	Boosting the oxygen evolution catalytic performance of perovskites via optimizing calcination temperature. Journal of Materials Chemistry A, 2020, 8, 6480-6486.	9.3	40
278	Metal Phosphides Embedded with In Situâ€Formed Metal Phosphate Impurities as Buffer Materials for Highâ€Performance Potassiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, .	22.4	40
279	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.	13.2	40
280	Composition and microstructure optimization and operation stability of barium deficient Ba1â^'xCo0.7Fe0.2Nb0.1O3â^'Î´ perovskite oxide electrodes. Electrochimica Acta, 2013, 103, 23-31.	5.4	39
281	Enabling efficient hydrogen-evolution reaction over perovskite oxide electrocatalysts through phosphorus promotion. International Journal of Hydrogen Energy, 2020, 45, 24859-24869.	9.2	39
282	A microchannel reactor-integrated ceramic fuel cell with dual-coupling effect for efficient power and syngas co-generation from methane. Applied Catalysis B: Environmental, 2021, 297, 120443.	20.3	39
283	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	39
284	Effect of Sm3+ content on the properties and electrochemical performance of SmxSr1â^'xCoO3â^'Î´ (0.2â‰¤xâ‰¤0.8) as an oxygen reduction electrodes on doped ceria electrolytes. Electrochimica Acta, 2011, 56, 2870-2876.	5.4	38
285	LiNi0.29Co0.33Mn0.38O2 polyhedrons with reduced cation mixing as a high-performance cathode material for Li-ion batteries synthesized via a combined co-precipitation and molten salt heating technique. Journal of Alloys and Compounds, 2017, 691, 206-214.	6.0	38
286	Nanoporous NiO/Ni(OH)₂Plates Incorporated with Carbon Nanotubes as Active Materials of Rechargeable Hybrid Zinc Batteries for Improved Energy Efficiency and High-Rate Capability. Journal of the Electrochemical Society, 2018, 165, A2119-A2126.	3.1	38
287	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, .	11.5	38
288	Electrodeposition of a dendriteâ€free 3D Al anode for improving cycling of an aluminumâ€“graphite battery. , 2022, 4, 155-169.		38

#	Article	IF	Citations
289	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.	9.3	38
290	Bifunctional electrocatalysts Pr_{0.5}Sr_{0.5}Cr_{0.1}Fe_{0.9â^'x}Ni_xO_{3â^'Î´} (x = 0.1, 0.2) for the HOR and ORR of a symmetric solid oxide fuel cell. Journal of Materials Chemistry A, 2023, 11, 21839-21845.	9.3	38
291	Ethanol Steam Reforming over Pt Catalysts Supported on Ce_xZr_{1â^'x}O₂ Prepared via a Glycine Nitrate Process. Energy & Fuels, 2008, 22, 1873-1879.	5.3	37
292	Novel cathode-supported hollow fibers for light weight micro-tubular solid oxide fuel cells with an active cathode functional layer. Journal of Materials Chemistry A, 2015, 3, 1017-1022.	9.3	37
293	Significantly Improving the Durability of Single-Chamber Solid Oxide Fuel Cells: A Highly Active CO₂-Resistant Perovskite Cathode. ACS Applied Energy Materials, 2018, 1, 1337-1343.	5.4	37
294	New perovskite membrane with improved sintering and self-reconstructed surface for efficient hydrogen permeation. Journal of Membrane Science, 2021, 620, 118980.	8.3	37
295	Synergistic Bulk and Surface Engineering for Expeditious and Durable Reversible Protonic Ceramic Electrochemical Cells Air Electrode. Advanced Materials, 2024, 36, .	24.4	37
296	Effect of firing temperature on the microstructure and performance of PrBaCo2O5+Î´ cathodes on Sm0.2Ce0.8O1.9 electrolytes fabricated by spray deposition-firing processes. Journal of Power Sources, 2010, 195, 4667-4675.	8.1	36
297	Catalytic decomposition of hydrous hydrazine to hydrogen over oxide catalysts at ambient conditions for PEMFCs. International Journal of Hydrogen Energy, 2012, 37, 1133-1139.	9.2	36
298	A new symmetric solid oxide fuel cell with a samaria-doped ceria framework and a silver-infiltrated electrocatalyst. Journal of Power Sources, 2012, 197, 57-64.	8.1	36
299	Rationally designed Water-Insertable Layered Oxides with Synergistic Effect of Transition-Metal Elements for High-Performance Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 25227-25235.	8.1	36
300	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	36
301	Ionically and Electronically Conductive Phases in a Composite Anode for High-Rate and Stable Lithium Stripping and Plating for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2022, 14, 38786-38794.	8.1	36
302	CO2-induced reconstruction for ORR-enhanced solid oxide fuel cell cathode. Chemical Engineering Journal, 2023, 462, 142216.	11.9	36
303	Fabrication of an anode-supported yttria-stabilized zirconia thin film for solid-oxide fuel cells via wet powder spraying. Journal of Power Sources, 2008, 184, 229-237.	8.1	35
304	Optimal synthesis and new understanding of P2-type Na2/3Mn1/2Fe1/4Co1/4O2 as an advanced cathode material in sodium-ion batteries with improved cycle stability. Ceramics International, 2018, 44, 5184-5192.	5.4	35
305	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, .		35
306	Physically mixed LiLaNiâ€“Al2O3 and copper as conductive anode catalysts in a solid oxide fuel cell for methane internal reforming and partial oxidation. International Journal of Hydrogen Energy, 2011, 36, 5632-5643.	9.2	34

#	Article	IF	Citations
307	The influence of impurity ions on the permeation and oxygen reduction properties of Ba0.5Sr0.5Co0.8Fe0.2O3â˜Î´ perovskite. Journal of Membrane Science, 2014, 449, 86-96.	8.3	34
308	Improved performance of a symmetrical solid oxide fuel cell by swapping the roles of doped ceria and La0.6Sr1.4MnO4+Î´ in the electrode. Journal of Power Sources, 2017, 342, 644-651.	8.1	34
309	Recent advances in functional oxides for high energy density sodium-ion batteries. Materials Reports Energy, 2021, 1, 100022.	4.0	34
310	Interface engineered perovskite oxides for enhanced catalytic oxidation: The vital role of lattice oxygen. Chemical Engineering Science, 2021, 245, 116944.	4.0	34
311	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	34
312	A High Electrochemical Performance Proton Conductor Electrolyte with CO2 Tolerance. Chinese Journal of Catalysis, 2009, 30, 479-481.	16.2	33
313	Electrochemical Performance of SrSc[sub 0.2]Co[sub 0.8]O[sub 3â˜Î´] Cathode on Sm[sub 0.2]Ce[sub 0.8]O[sub 1.9] Electrolyte for Low Temperature SOFCs. Journal of the Electrochemical Society, 2009, 156, B884.	3.1	33
314	Facile single-step preparation of Pt/N-graphene catalysts with improved methanol electrooxidation activity. Journal of Solid State Electrochemistry, 2012, 17, 1089-1098.	2.3	33
315	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	33
316	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	33
317	Highly Active Nanocomposite Air Electrode with Fast Proton Diffusion Channels via Er Dopingâ€Induced Phase Separation for Reversible Proton Ceramic Electrochemical Cells. Advanced Functional Materials, 2024, 34, .	16.9	33
318	A novel way to improve performance of proton-conducting solid-oxide fuel cells through enhanced chemical interaction of anode components. International Journal of Hydrogen Energy, 2011, 36, 1683-1691.	9.2	32
319	Ternary Phase Diagram-Facilitated Rapid Screening of Double Perovskites As Electrocatalysts for the Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 5919-5926.	6.9	32
320	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. Chemical Physics Reviews, 2020, 1, .	6.1	32
321	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. Applied Physics Reviews, 2021, 8, .	10.7	32
322	Cathode water management towards improved performance of protonic ceramic fuel cells. Journal of Power Sources, 2023, 556, 232403.	8.1	32
323	Interlayer-free electrodes for IT-SOFCs by applying Co3O4 as sintering aid. International Journal of Hydrogen Energy, 2012, 37, 11946-11954.	9.2	31
324	Cuprous oxide single-crystal film assisted highly efficient solar hydrogen production on large ships for long-term energy storage and zero-emission power generation. Journal of Power Sources, 2022, 527, 231133.	8.1	31

#	Article	IF	Citations
325	Solid-oxide fuel cell operated on in situ catalytic decomposition products of liquid hydrazine. Journal of Power Sources, 2008, 177, 323-329.	8.1	30
326	Effect of nickel content and preparation method on the performance of Ni-Al2O3 towards the applications in solid oxide fuel cells. International Journal of Hydrogen Energy, 2011, 36, 10958-10967.	9.2	30
327	Solid lithium electrolyte-Li4Ti5O12 composites as anodes of lithium-ion batteries showing high-rate performance. Journal of Power Sources, 2013, 231, 177-185.	8.1	30
328	Effect of a reducing agent for silver on the electrochemical activity of an Ag/Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ electrode prepared by electroless deposition technique. Journal of Power Sources, 2009, 186, 244-251.	8.1	29
329	Significant impact of the current collection material and method on the performance of Ba0.5Sr0.5Co0.8Fe0.2O3â^' electrodes in solid oxide fuel cells. Journal of Power Sources, 2011, 196, 5511-5519.	8.1	29
330	Core Effect on the Performance of N/P Codoped Carbon Encapsulating Noble-Metal Phosphide Nanostructures for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 2645-2653.	5.4	29
331	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.	9.3	29
332	Double-site yttria-doped Sr1â^'xYxCo1â^'yYyO3â^'Î´ perovskite oxides as oxygen semi-permeable membranes. Journal of Alloys and Compounds, 2009, 474, 477-483.	6.0	28
333	Heterostructured electrode with concentration gradient shell for highly efficient oxygen reduction at low temperature. Scientific Reports, 2011, 1, .	3.7	28
334	Tin and iron co-doping strategy for developing active and stable oxygen reduction catalysts from SrCoO3â^'Î´ for operating below 800ÂÂ°C. Journal of Power Sources, 2015, 294, 339-346.	8.1	28
335	Additive Engineering for Mixed Leadâ€“Tin Narrow-Band-Gap Perovskite Solar Cells: Recent Advances and Perspectives. Energy & Fuels, 2023, 37, 6401-6423.	5.3	28
336	Undoped ruthenium oxide as a stable catalyst for the acidic oxygen evolution reaction. Nature Communications, 2025, 16, .	14.2	28
337	A comparative study of La0.8Sr0.2MnO3 and La0.8Sr0.2Sc0.1Mn0.9O3 as cathode materials of single-chamber SOFCs operating on a methaneâ€“air mixture. Journal of Power Sources, 2009, 191, 225-232.	8.1	27
338	A high-performance cathode for the next generation of solid-oxide fuel cells. , 2010, , 255-258.		27
339	Synthesis and characterization of non-precious metal binary catalyst for oxygen reduction reaction in proton exchange membrane fuel cells. Electrochimica Acta, 2012, 77, 324-329.	5.4	27
340	Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen Defects for Zincâ€Air Batteries. ChemElectroChem, 2020, 7, 4949-4955.	3.0	27
341	Tuning Nitrogen in Graphitic Carbon Nitride Enabling Enhanced Performance for Polysulfide Confinement in Liâ€“S Batteries. Energy & Fuels, 2020, 34, 11557-11564.	5.3	27
342	An Adsorptionâ€“Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. ACS ES&T Water, 2021, 1, 145-156.	4.3	27

#	Article	IF	Citations
343	Minireview on the Electrocatalytic Ammonia Oxidation Reaction for Hydrogen Production and Sewage Treatment. Energy & Fuels, 2024, 38, 919-931.	5.3	27
344	A freestanding composite film electrode stacked from hierarchical electrospun SnO₂ nanorods and graphene sheets for reversible lithium storage. RSC Advances, 2014, 4, 9367-9371.	4.5	26
345	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	26
346	Robust Cathode for Efficient CO₂ Electrolysis Driven by Entropy Engineering in Solid Oxide Electrolysis Cells. ACS Energy Letters, 2024, 9, 3818-3827.	17.5	26
347	Facile synthesis of porous MgOâ€“CaOâ€“SnOx nanocubes implanted firmly on in situ formed carbon paper and their lithium storage properties. Journal of Materials Chemistry A, 2014, 2, 9126.	9.3	25
348	Corncob-shaped ZnFe₂O₄/C nanostructures for improved anode rate and cycle performance in lithium-ion batteries. RSC Advances, 2015, 5, 31807-31814.	4.5	25
349	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	25
350	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	25
351	A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zincâ€“Air Batteries. Small, 2022, 18, .	11.5	25
352	A novel Ba0.6Sr0.4Co0.9Nb0.1O3â^'Î´ cathode for protonic solid-oxide fuel cells. Journal of Power Sources, 2010, 195, 4700-4703.	8.1	24
353	Fabrication and performance of a carbon dioxide-tolerant proton-conducting solid oxide fuel cells with a dual-layer electrolyte. International Journal of Hydrogen Energy, 2010, 35, 10513-10521.	9.2	24
354	Nickel zirconia cerate cermet for catalytic partial oxidation of ethanol in a solid oxide fuel cell system. International Journal of Hydrogen Energy, 2012, 37, 8603-8612.	9.2	24
355	Enhancing the cycle life of Li-S batteries by designing a free-standing cathode with excellent flexible, conductive, and catalytic properties. Electrochimica Acta, 2019, 298, 421-429.	5.4	24
356	Zeolitic Imidazolate Framework-Derived Ordered Ptâ€“Fe Intermetallic Electrocatalysts for High-Performance Zn-Air Batteries. Energy & Fuels, 2020, 34, 11527-11535.	5.3	24
357	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	24
358	Robust Anodeâ€Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO₂ Electrolysis at Ultrahigh Current Densities. Small, 2021, 17, .	11.5	24
359	Organic ligand-facilitatedin situexsolution of CoFe alloys over Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â^'Î´}perovskite toward enhanced oxygen electrocatalysis for rechargeable Zn-air batteries. Journal of Materials Chemistry A, 2023, 11, 12856-12865.	9.3	24
360	Title is missing!. Journal of Materials Science, 2000, 35, 5639-5644.	3.5	23

#	Article	IF	Citations
361	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.	8.1	23
362	Dodecylamineâ€Induced Synthesis of a Nitrogenâ€Doped Carbon Comb for Advanced Lithiumâ€“Sulfur Battery Cathodes. Advanced Materials Interfaces, 2018, 5, .	4.1	23
363	Direct Operation of Solid Oxide Fuel Cells on Low-Concentration Oxygen-Bearing Coal-Bed Methane with High Stability. Energy & Fuels, 2018, 32, 4547-4558.	5.3	23
364	Air Cathode Design for Light-Assisted Charging of Metalâ€“Air Batteries: Recent Advances and Perspectives. Energy & Fuels, 2023, 37, 8902-8918.	5.3	23
365	Template GNL-assisted synthesis of porous Li_{1.2}Mn_{0.534}Ni_{0.133}Co_{0.133}O₂: towards high performance cathodes for lithium ion batteries. RSC Advances, 2015, 5, 25258-25265.	4.5	22
366	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
367	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	22
368	Simultaneously Improved Surface and Bulk Participation of Evolved Perovskite Oxide for Boosting Oxygen Evolution Reaction Activity Using a Dynamic Cation Exchange Strategy. Small, 2022, 18, .	11.5	22
369	<scp>CoNiFe</scp>â€layered double hydroxide decorated <scp>Coâ€Nâ€C</scp> network as a robust biâ€functional oxygen electrocatalyst for zincâ€air batteries. EcoMat, 2023, 5, .	11.8	22
370	Fuel cells: Materials needs and advances. MRS Bulletin, 2024, 49, 451-463.	4.4	22
371	Heterostructure boosts a noble-metal-free oxygen-evolving electrocatalyst in acid. Energy and Environmental Science, 2024, 17, 5972-5983.	30.6	22
372	A Complex Oxide Containing Inherent Peroxide Ions for Catalyzing Oxygen Evolution Reactions in Acid. Journal of the American Chemical Society, 2024, 146, 33663-33674.	15.7	22
373	A single-step synthesized cobalt-free barium ferrites-based composite cathode for intermediate temperature solid oxide fuel cells. Electrochemistry Communications, 2011, 13, 1340-1343.	3.9	21
374	Inherently Catalyzed Boudouard Reaction of Bamboo Biochar for Solid Oxide Fuel Cells with Improved Performance. Energy & Fuels, 2018, 32, 4559-4568.	5.3	21
375	Maintaining pronounced proton transportation of solid oxides prepared with a sintering additive. Journal of Materials Chemistry A, 2021, 9, 14553-14565.	9.3	21
376	Novel monoclinic ABO4 oxide with single-crystal structure as next generation electrocatalyst for oxygen evolution reaction. Chemical Engineering Journal, 2021, 420, 130492.	11.9	21
377	A Magnetic Binderâ€Linked Air Electrode with Antiâ€Pulverization Behavior for Rechargeable and Recyclable Znâ€Air Batteries. Advanced Functional Materials, 2023, 33, .	16.9	21
378	Silver Compositing Boosts Water Electrolysis Activity and Durability of RuO₂ in a Protonâ€Exchangeâ€Membrane Water Electrolyzer. Small Science, 2023, 3, .	7.8	21

#	Article	IF	Citations
379	Influence of high-energy ball milling of the starting powder on the sintering; microstructure and oxygen permeability of Ba0.5Sr0.5Co0.5Fe0.5O3â^' membranes. Journal of Membrane Science, 2011, 366, 203-211.	8.3	20
380	An Intrinsically Conductive Phosphorusâ€Doped Perovskite Oxide as a New Cathode for Highâ€Performance Dyeâ€Sensitized Solar Cells by Providing Internal Conducting Pathways. Solar Rrl, 2019, 3, 1900108.	4.7	20
381	Câ€“Zn Redox Battery with NiFe₂O₄ as Catalyst for Enhanced Degradation of Cr(VI) Pollution. ACS Sustainable Chemistry and Engineering, 2019, 7, 111-116.	7.0	20
382	In situ passivation of Fe nanoparticles exsolved from perovskite cathodes through zinc doping for CO₂ electrolysis. Green Chemistry, 2023, 25, 9826-9836.	9.3	20
383	Modified cellulose adsorption method for the synthesis of conducting perovskite powders for membrane application. Powder Technology, 2002, 122, 26-33.	4.5	19
384	In situ electrochemical creation of cobalt oxide nanosheets with favorable performance as a high tap density anode material for lithium-ion batteries. Electrochimica Acta, 2015, 180, 914-921.	5.4	19
385	Chlorine-Doped Perovskite Oxide: A Platinum-Free Cathode for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 35641-35652.	8.1	19
386	Leadâ€Free Allâ€Inorganic Cesium Bismuth Iodideâ€Based Perovskite Solar Cells: Recent Advances, Current Limitations, and Future Prospects. Solar Rrl, 2024, 8, .	4.7	19
387	Electric Power and Synthesis Gas Coâ€generation From Methane with Zero Waste Gas Emission. Angewandte Chemie, 2011, 123, 1832-1837.	1.5	18
388	Facile low-temperature polyol process for LiFePO4 nanoplate andÂcarbon nanotube composite. Solid State Sciences, 2013, 24, 15-20.	3.1	18
389	Porous nanocrystalline TiO2 with high lithium-ion insertion performance. Journal of Materials Science, 2012, 48, 2733-2742.	3.5	18
390	Rational Design of Superior, Cokingâ€Resistant, Nickelâ€Based Anodes through Tailoring Interfacial Reactions for Solid Oxide Fuel Cells Operated on Methane Fuel. ChemSusChem, 2018, 11, 3112-3119.	6.3	18
391	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	18
392	Recent Advances in Bioâ€Compatible Oxygen Singlet Generation and Its Tumor Treatment. Advanced Therapeutics, 2022, 5, .	2.3	18
393	Boosting catalytic activity of Î²-MnO2 through potassium incorporation for efficient carbonylation of amines by carbon dioxide. Journal of Catalysis, 2022, 409, 48-58.	6.5	18
394	LaBa0.8Ca0.2Co2O5+Î´ cathode with superior CO2 resistance and high oxygen reduction activity for intermediate-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2022, 47, 16214-16221.	9.2	18
395	Nanoscale Intertwined Biphase Nanofiber as Active and Durable Air Electrode for Solid Oxide Electrochemical Cells. ACS Sustainable Chemistry and Engineering, 2023, 11, 8592-8602.	7.0	18
396	Activation of a single-chamber solid oxide fuel cell by a simple catalyst-assisted in-situ process. Electrochemistry Communications, 2009, 11, 1563-1566.	3.9	17

#	Article	IF	Citations
397	Facile Conversion of Commercial Coarse-Type LiCoO₂ to Nanocomposite-Separated Nanolayer Architectures as a Way for Electrode Performance Enhancement. ACS Applied Materials & Interfaces, 2015, 7, 1787-1794.	8.1	17
398	Rational confinement of molybdenum based nanodots in porous carbon for highly reversible lithium storage. Journal of Materials Chemistry A, 2016, 4, 10403-10408.	9.3	17
399	Multifold Nanostructuring and Atomicâ€Scale Modulation of Cobalt Phosphide to Significantly Boost Hydrogen Production. Chemistry - A European Journal, 2018, 24, 13800-13806.	3.4	17
400	Ionic Liquid-Modified Co/ZSM-5 Catalyzed the Aerobic Oxidation of Cyclohexane: Toward Improving the Activity and Selectivity. Industrial & Engineering Chemistry Research, 2019, 58, 19832-19838.	4.0	17
401	Enhanced coking resistance of a Ni cermet anode by a chromates protective layer. Journal of Energy Chemistry, 2019, 37, 117-125.	14.2	17
402	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	17
403	MnO2 polymorphs for catalytic carboxylation of 1-butanamine by CO2. Journal of CO2 Utilization, 2021, 48, 101525.	8.0	17
404	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	17
405	Controllably grown single-crystal films as flexoelectric nanogenerators for continuous direct current output. Npj Flexible Electronics, 2022, 6, .	14.6	17
406	Optimization of BaxSr1â^'xCo0.9Nb0.1O3â^'Î´ perovskite as oxygen semi-permeable membranes by compositional tailoring. Separation and Purification Technology, 2010, 71, 152-159.	8.8	16
407	Synthesis of nano-particle and highly porous conducting perovskites from simple in situ sol-gel derived carbon templating process. Bulletin of Materials Science, 2010, 33, 371-376.	1.9	16
408	Iron incorporated Niâ€“ZrO2 catalysts for electric power generation from methane. International Journal of Hydrogen Energy, 2012, 37, 9801-9808.	9.2	16
409	Silver-Perovskite Hybrid Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media. Journal of the Electrochemical Society, 2018, 165, H524-H529.	3.1	16
410	Design and investigation of dual-layer electrodes for proton exchange membrane fuel cells. Solid State Ionics, 2014, 262, 313-318.	3.1	15
411	Graphene decorated with multiple nanosized active species as dual function electrocatalysts for lithium-oxygen batteries. Electrochimica Acta, 2016, 188, 718-726.	5.4	15
412	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	15
413	Thermal reduction-assisted electronic structure tuning of perovskite oxide as catalyst for efficient advanced oxidation. Composites Part B: Engineering, 2021, 207, 108577.	12.9	15
414	Rapid Gas-Phase Synthesis of the Perovskite-Type BaCe_{0.7}Zr_{0.1}Y_{0.1}Yb_{0.1}O_{3â^'Î´} Proton-Conducting Nanocrystalline Electrolyte for Intermediate-Temperature Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2022, 14, 47568-47577.	8.1	15

#	Article	IF	Citations
415	Spontaneous Growth of Perovskiteâ€Derived Oxide over Double Perovskite Surface for Enhancing Cathodic Performance in Protonic Ceramic Fuel Cells. Advanced Energy Materials, 2024, 14, .	22.4	15
416	Self-optimized and stable nanocomposites via one-pot synthesis for high-temperature CO2 electrolysis in solid oxide electrolysis cells. Journal of Power Sources, 2024, 602, 234277.	8.1	15
417	First observation of electrode-correlated protonic conductivity of perovskite-type electrolytes and way towards optimization. Energy and Environmental Science, 2024, 17, 4115-4125.	30.6	15
418	Performance deviation analysis and reliability improvement during experimental development of lab-scale solid oxide single cells. Energy and Environmental Science, 2024, 17, 6873-6896.	30.6	15
419	Partial oxidation of methane to syngas in a mixed-conducting oxygen permeable membrane reactor. Science Bulletin, 2000, 45, 224-226.	1.6	14
420	Effect of foreign oxides on the phase structure, sintering and transport properties of Ba0.5Sr0.5Co0.8Fe0.2O3â˜Î´ as ceramic membranes for oxygen separation. Separation and Purification Technology, 2011, 81, 384-391.	8.8	14
421	Mixed Fuel Strategy for Carbon Deposition Mitigation in Solid Oxide Fuel Cells at Intermediate Temperatures. Environmental Science & Technology, 2014, 48, 7122-7127.	11.3	14
422	Performance and durability of a layered proton conducting solid oxide fuel cell fueled by the dry reforming of methane. RSC Advances, 2017, 7, 44319-44325.	4.5	14
423	Numerical investigation of a non-aqueous lithium-oxygen battery based on lithium superoxide as the discharge product. Applied Energy, 2017, 203, 254-266.	11.3	14
424	Low-temperature synthesis of La0.6Sr0.4Co0.2Fe0.8O3â˜Î´ perovskite powder via asymmetric solâ€“gel process and catalytic auto-combustion. Ceramics International, 2009, 35, 2809-2815.	5.4	13
425	Facile auto-combustion synthesis for oxygen separation membrane application. Journal of Membrane Science, 2009, 329, 219-227.	8.3	13
426	Well-crystallized mesoporous samaria-doped ceria from EDTA-citrate complexing process with in situ created NiO as recyclable template. Journal of Alloys and Compounds, 2010, 491, 271-277.	6.0	13
427	Influence of sealing materials on the oxygen permeation fluxes of some typical oxygen ion conducting ceramic membranes. Journal of Membrane Science, 2014, 470, 102-111.	8.3	13
428	Rational Design of Perovskite-Based Anode with Decent Activity for Hydrogen Electro-Oxidation and Beneficial Effect of Sulfur for Promoting Power Generation in Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2018, 10, 41257-41267.	8.1	13
429	New nitrogen-doped graphitic carbon nanosheets with rich structural defects and hierarchical nanopores as efficient metal-free electrocatalysts for oxygen reduction reaction in Zn-Air batteries. Chemical Engineering Science, 2022, 259, 117816.	4.0	13
430	Ammonia synthesis via a protonic ceramic electrolysis cell (PCEC) using LaCu_{0.1}Fe_{0.9}O_{3â˜Î´} catalyst. Journal of Materials Chemistry A, 2024, 12, 1200-1210.	9.3	13
431	Complex Metal Oxides as Emerging Inorganic Holeâ€Transporting Materials for Perovskite Solar Cells. Small, 2024, 20, .	11.5	13
432	Reducing the operation temperature of a solid oxide fuel cell using a conventional nickel-based cermet anode on dimethyl ether fuel through internal partial oxidation. Journal of Power Sources, 2011, 196, 7601-7608.	8.1	12

#	Article	IF	Citations
433	One-pot combustion synthesis of Li3VO4-Li4Ti5O12 nanocomposite as anode material of lithium-ion batteries with improved performance. Electrochimica Acta, 2016, 222, 587-595.	5.4	12
434	Constructing self-standing and non-precious metal heterogeneous nanowire arrays as high-performance oxygen evolution electrocatalysts: Beyond the electronegativity effect of the substrate. Journal of Power Sources, 2018, 396, 421-428.	8.1	12
435	Organic Photochemistry-Assisted Nanoparticle Segregation on Perovskites. Cell Reports Physical Science, 2020, 1, 100243.	5.1	12
436	Fast cation exchange of layered sodium transition metal oxides for boosting oxygen evolution activity and enhancing durability. Journal of Materials Chemistry A, 2020, 8, 8075-8083.	9.3	12
437	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	12
438	In Situ Exsolved CoFeRu Alloy Decorated Perovskite as An Anode Catalyst Layer for Highâ€Performance Directâ€Ammonia Protonic Ceramic Fuel Cells. Advanced Functional Materials, 2024, 34, .	16.9	12
439	Mixed-conducting perovskite-type SrxBi1-xFeO3-Î´ oxygen-permeating membranes. Science in China Series B: Chemistry, 2000, 43, 421-427.	0.8	11
440	Single-chamber solid oxide fuel cells with nanocatalyst-modified anodes capable of in situ activation. Journal of Power Sources, 2014, 264, 220-228.	8.1	11
441	Cation-Substitution-Tuned Oxygen Electrocatalyst of Spinel Cobaltite MCo₂O₄ (M = Fe, Co, and Ni) Hexagonal Nanoplates for Rechargeable Zn-Air Batteries. Journal of the Electrochemical Society, 2019, 166, A3448-A3455.	3.1	11
442	Perowskitoxidâ€Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung. Angewandte Chemie, 2020, 132, 140-158.	1.5	11
443	Microscale-decoupled charge-discharge reaction sites for an air electrode with abundant triple-phase boundary and enhanced cycle stability of Zn-Air batteries. Journal of Power Sources, 2022, 525, 231108.	8.1	11
444	Iodide/triiodide redox shuttle-based additives for high-performance perovskite solar cells by simultaneously passivating the cation and anion defects. Nanoscale, 2023, 15, 4344-4352.	5.1	11
445	New Understanding and Improvement in Sintering Behavior of Ceriumâ€Rich Perovskiteâ€Type Protonic Electrolytes. Advanced Functional Materials, 2024, 34, .	16.9	11
446	A semi-vapor electrolysis technology for hydrogen generation from wide water resources. Energy and Environmental Science, 2024, 17, 7394-7402.	30.6	11
447	Optimization of SnO₂ Nanoparticles Confined in a Carbon Matrix towards Applications as Highâ€Capacity Anodes in Sodiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 4015-4022.	1.7	10
448	Nitrogen-Doped Graphic Carbon Protected Cu/Co/CoO Nanoparticles for Ultrasensitive and Stable Non-Enzymatic Determination of Glucose and Fructose in Wine. Journal of the Electrochemical Society, 2018, 165, B543-B550.	3.1	10
449	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	10
450	Enhancing Fast-Charge Capabilities in Solid-State Lithium Batteries through the Integration of High Li_{0.5}La_{0.5}TiO₃ (LLTO) Content in the Lithium-Metal Anode. ACS Applied Materials & Interfaces, 2023, 15, 59370-59379.	8.1	10

#	Article	IF	Citations
451	Strategic cation exchange induced 2D nickel sulphide nanoplates with enhanced oxygen evolution reaction performance. Journal of Materials Chemistry A, 2024, 12, 27364-27372.	9.3	10
452	Deciphering Surface Ligand Density of Colloidal Semiconductor Nanocrystals: Shape Matters. Journal of the American Chemical Society, 2024, 146, 29104-29114.	15.7	10
453	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	9
454	SynergisticÂÎ³â€In₂Se₃@rGO Nanocomposites with Beneficial Crystal Transformation Behavior for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Science, 2023, 10, .	12.7	9
455	Recent Advances in Developing High-Performance Solid-State Lithium Batteries: Interface Engineering. Energy & Fuels, 2023, 37, 17892-17914.	5.3	9
456	Effect of CuO additive on the sintering and performance of niobium-doped strontium cobaltite as oxygen separation membranes. Separation and Purification Technology, 2010, 74, 28-37.	8.8	8
457	Alternative perovskite materials as a cathode component for intermediate temperature single-chamber solid oxide fuel cell. Journal of Power Sources, 2010, 195, 4758-4764.	8.1	8
458	Further performance enhancement of a DME-fueled solid oxide fuel cell by applying anode functional catalyst. International Journal of Hydrogen Energy, 2012, 37, 6844-6852.	9.2	8
459	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
460	Atomic cerium modulated palladium nanoclusters exsolved ferrite catalysts for lean methane conversion. Exploration, 2022, 2, .	18.0	8
461	In operandoâ€formed interface between silver and perovskite oxide for efficient electroreduction of carbon dioxide to carbon monoxide. , 2023, 5, .		8
462	Simultaneously enhancing the oxygen flux and operational stability of Ba0.5Sr0.5Co0.8Fe0.2O3â€“Î´ membrane via an Ag doping method. Journal of Membrane Science, 2024, 698, 122612.	8.3	8
463	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	8
464	A Carbonâ€“Air Battery for High Power Generation. Angewandte Chemie, 2015, 127, 3793-3796.	1.5	7
465	Utilizing the charge-transfer model to design promising electrocatalysts. Current Opinion in Electrochemistry, 2021, 30, 100805.	4.7	7
466	Charge Carriers for Aqueous Dualâ€Ion Batteries. ChemSusChem, 2023, 16, .	6.3	7
467	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	7
468	Effects of niobium doping site and concentration on the phase structure and oxygen permeability of Nb-substituted SrCoOx oxides. Ceramics International, 2010, 36, 635-641.	5.4	6

#	Article	IF	Citations
469	Perovskite Materials in Electrocatalysis. Materials Horizons, 2020, , 209-250.	0.0	6
470	A partially Fe-substituted perovskite electrode for enhancing Zn-CO2 batteries. Chemical Engineering Journal, 2023, 474, 145594.	11.9	6
471	From Liâ€“O₂ to Liâ€“Air Batteries: Challenges and Progress on Oxygen-Permeable Membranes. Energy & Fuels, 2024, 38, 15001-15024.	5.3	6
472	In situ templating synthesis of conic Ba0Â·5Sr0Â·5Co0Â·8Fe0Â·2O3âˆ'Î´ perovskite at elevated temperature. Bulletin of Materials Science, 2009, 32, 407-412.	1.9	5
473	Study on oxygen activation and methane oxidation over La0.8Sr0.2MnO3 electrode in single-chamber solid oxide fuel cells via an electrochemical approach. International Journal of Hydrogen Energy, 2012, 37, 4328-4338.	9.2	5
474	Deciphering the Nitrogen Activation Mechanisms on Group VIII Single Atoms at MoS₂. Inorganic Chemistry, 2024, 63, 19570-19581.	4.6	5
475	Development of Nanostructured Lanthanum Strontium Cobalt Ferrite/Gadolinian-Doped Ceria Composite Electrodes of Solid Oxide Cells Formed by In Situ Polarization. ACS Applied Materials & Interfaces, 2024, 16, 21818-21827.	8.1	4
476	Crystal structure optimization of copper oxides for the benzyl alcohol oxidation reaction. Chemical Communications, 2024, 60, 7224-7227.	4.2	4
477	Synthesis and characterization of gallium-based perovskitetype dense membrane with oxygen semipermeability. Science in China Series B: Chemistry, 2001, 44, 294-303.	0.8	2
478	Cathodes for IT-SOFCs. Green Chemistry and Sustainable Technology, 2016, , 59-126.	0.0	2
479	A strategy to reduce the impact of tar on a Ni â€• YSZ anode of solid oxide fuel cells. International Journal of Energy Research, 2019, 43, 3938-3948.	4.4	2
480	Enhancement of the electrochemical oxygen reduction performance by surface oxygen vacancies on hematite nanosheets. New Journal of Chemistry, 2023, 47, 21969-21977.	2.5	2
481	A double-layer composite electrode based on SrSc0.2Co0.8O3âˆ'Î´ perovskite with improved performance in intermediate temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2010, 35, 7608-7617.	9.2	1
482	CHAPTER 2. Electrolyte Materials for Solid Oxide Fuel Cells (SOFCs). RSC Energy and Environment Series, 0, , 26-55.	1.0	1
483	Anodes for IT-SOFCs. Green Chemistry and Sustainable Technology, 2016, , 127-175.	0.0	1
484	Perovskite Materials in Photovoltaics. Materials Horizons, 2020, , 175-207.	0.0	1
485	Hydration deactivation mechanism of the ã€˜100ã€‰ oriented cuprous oxide photocathodes in solar water splitting and the regenerated three-dimensional structure. Physical Chemistry Chemical Physics, 2024, 26, 1625-1629.	2.8	1
486	A bi-functional air electrode developed from a dual-MOF strategy for high-performance zincâ€“air batteries. EES Catalysis, 2024, 2, 968-979.	7.4	1

#	Article	IF	Citations
487	A potential well effect for efficient oxygen reduction and corrosion resistance under the operating temperature conditions of PEMFCs. Journal of Materials Chemistry A, 2024, 12, 31214-31222.	9.3	1
488	Investigation of novel zirconium based perovskite-type mixed conducting membranes for oxygen separation. Science Bulletin, 2001, 46, 473-477.	1.6	0
489	Introduction. Green Chemistry and Sustainable Technology, 2016, , 1-13.	0.0	0
490	Electrolyte Materials for IT-SOFCs. Green Chemistry and Sustainable Technology, 2016, , 15-57.	0.0	0
491	Selected New Aspects of SOFCs. Green Chemistry and Sustainable Technology, 2016, , 215-245.	0.0	0
492	Hydration deactivation mechanism of the ã€ˆ100ã€‰ oriented cuprous oxide photocathodes in solar water splitting and the regenerated three-dimensional structure. Physical Chemistry Chemical Physics, 2024, 26, 1625-1629.	2.8	0
493	Design of HT-PEMFC Devices. , 2024, , 155-197.		0