

Wei Zhou

List of Publications by Year in descending order

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711
papers

59,236
citations

764

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734
all docs

734
docs citations

734
times ranked

31722
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-performance cathode for the next generation of solid-oxide fuel cells. <i>Nature</i> , 2004, 431, 170-173.	13.7	2,737
2	Investigation of the permeation behavior and stability of a Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} oxygen membrane. <i>Journal of Membrane Science</i> , 2000, 172, 177-188.	4.1	983
3	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. <i>Chemical Reviews</i> , 2015, 115, 9869-9921.	23.0	770
4	Research progress of perovskite materials in photocatalysis- and photovoltaics-related energy conversion and environmental treatment. <i>Chemical Society Reviews</i> , 2015, 44, 5371-5408.	18.7	725
5	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 973-982.	10.8	694
6	Enhancing Electrocatalytic Activity of Perovskite Oxides by Tuning Cation Deficiency for Oxygen Reduction and Evolution Reactions. <i>Chemistry of Materials</i> , 2016, 28, 1691-1697.	3.2	635
7	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , 2017, 4, 1600371.	5.6	594
8	A thermally self-sustained micro solid-oxide fuel-cell stack with high power density. <i>Nature</i> , 2005, 435, 795-798.	13.7	583
9	A comprehensive review of Li ₄ Ti ₅ O ₁₂ -based electrodes for lithium-ion batteries: The latest advancements and future perspectives. <i>Materials Science and Engineering Reports</i> , 2015, 98, 1-71.	14.8	501
10	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 9973-10011.	5.5	491
11	Flexible Zn- and Li-air batteries: recent advances, challenges, and future perspectives. <i>Energy and Environmental Science</i> , 2017, 10, 2056-2080.	15.6	477
12	Synthesis, characterization and evaluation of cation-ordered LnBaCo ₂ O ₅₊ as materials of oxygen permeation membranes and cathodes of SOFCs. <i>Acta Materialia</i> , 2008, 56, 4876-4889.	3.8	461
13	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , 2018, 4, eaao6657.	4.7	460
14	Non-precious-metal catalysts for alkaline water electrolysis: <i>operando</i> characterizations, theoretical calculations, and recent advances. <i>Chemical Society Reviews</i> , 2020, 49, 9154-9196.	18.7	448
15	Stable Hierarchical Bimetal-Organic Nanostructures as HighPerformance Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4227-4231.	7.2	430
16	A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2016, 28, 6442-6448.	11.1	429
17	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 626-634.	10.8	428
18	Progress in Solid Oxide Fuel Cells with Nickel-Based Anodes Operating on Methane and Related Fuels. <i>Chemical Reviews</i> , 2013, 113, 8104-8151.	23.0	420

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19	Progress in understanding and development of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} -based cathodes for intermediate-temperature solid-oxide fuel cells: A review. <i>Journal of Power Sources</i> , 2009, 192, 231-246.	4.0	409
20	SrNb _{0.1} Co _{0.7} Fe _{0.2} O _{3-δ} Perovskite as a Next-Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3897-3901.	7.2	400
21	Hydrogen Storage in a Prototypical Zeolitic Imidazolate Framework-8. <i>Journal of the American Chemical Society</i> , 2007, 129, 5314-5315.	6.6	393
22	Recent advances in nanostructured metal nitrides for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19912-19933.	5.2	392
23	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 7-15.	10.8	390
24	Advanced synthesis of materials for intermediate-temperature solid oxide fuel cells. <i>Progress in Materials Science</i> , 2012, 57, 804-874.	16.0	372
25	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. <i>Energy and Environmental Science</i> , 2020, 13, 3361-3392.	15.6	370
26	A Perovskite Nanorod as Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1602122.	10.2	369
27	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , 2020, 11, 2002.	5.8	366
28	Advances in non-enzymatic glucose sensors based on metal oxides. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7333-7349.	2.9	348
29	Surfactant-Assisted Phase-Selective Synthesis of New Cobalt MOFs and Their Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13001-13005.	7.2	334
30	Intermediate-temperature electrochemical performance of a polycrystalline PrBaCo ₂ O _{5+δ} cathode on samarium-doped ceria electrolyte. <i>Journal of Power Sources</i> , 2009, 188, 96-105.	4.0	330
31	Thermal-expansion offset for high-performance fuel cell cathodes. <i>Nature</i> , 2021, 591, 246-251.	13.7	328
32	Perovskite oxides applications in high temperature oxygen separation, solid oxide fuel cell and membrane reactor: A review. <i>Progress in Energy and Combustion Science</i> , 2017, 61, 57-77.	15.8	314
33	Enhancing Electrocatalytic Activity for Hydrogen Evolution by Strongly Coupled Molybdenum Nitride@Nitrogen-Doped Carbon Porous Nano-Octahedrons. <i>ACS Catalysis</i> , 2017, 7, 3540-3547.	5.5	306
34	Molten salt synthesis of nitrogen-doped carbon with hierarchical pore structures for use as high-performance electrodes in supercapacitors. <i>Carbon</i> , 2015, 93, 48-58.	5.4	293
35	Self-Assembled Triple-Conducting Nanocomposite as a Superior Protonic Ceramic Fuel Cell Cathode. <i>Joule</i> , 2019, 3, 2842-2853.	11.7	292
36	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energy-Related Applications. <i>Small Methods</i> , 2018, 2, 1800071.	4.6	285

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37	Perovskite/Carbon Composites: Applications in Oxygen Electrocatalysis. <i>Small</i> , 2017, 13, 1603793.	5.2	277
38	The use of nitrogen-doped graphene supporting Pt nanoparticles as a catalyst for methanol electrocatalytic oxidation. <i>Carbon</i> , 2013, 52, 181-192.	5.4	275
39	Phosphorus-Doped Perovskite Oxide as Highly Efficient Water Oxidation Electrocatalyst in Alkaline Solution. <i>Advanced Functional Materials</i> , 2016, 26, 5862-5872.	7.8	271
40	Ba effect in doped Sr(Co _{0.8} Fe _{0.2})O _{3-δ} on the phase structure and oxygen permeation properties of the dense ceramic membranes. <i>Separation and Purification Technology</i> , 2001, 25, 419-429.	3.9	267
41	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. <i>ACS Catalysis</i> , 2017, 7, 388-397.	5.5	260
42	Recent Progress on Advanced Materials for Solid-Oxide Fuel Cells Operating Below 500 °C. <i>Advanced Materials</i> , 2017, 29, 1700132.	11.1	257
43	Nitrogen-doped simple and complex oxides for photocatalysis: A review. <i>Progress in Materials Science</i> , 2018, 92, 33-63.	16.0	257
44	Oxygen Reduction Reaction Activity of La-Based Perovskite Oxides in Alkaline Medium: A Thin-Film Rotating Ring-Disk Electrode Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5827-5834.	1.5	253
45	Perovskite Oxide Based Electrodes for High-Performance Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 136-152.	7.2	253
46	Biogas reforming for hydrogen production over nickel and cobalt bimetallic catalysts. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6646-6654.	3.8	252
47	A High-Performance Electrocatalyst for Oxygen Evolution Reaction: LiCo _{0.8} Fe _{0.2} O ₂ . <i>Advanced Materials</i> , 2015, 27, 7150-7155.	11.1	249
48	Co-Doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Science</i> , 2016, 3, 1500187.	5.6	245
49	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1900883.	11.1	243
50	Zirconium doping effect on the performance of proton-conducting BaZr _y Ce _{0.8-y} Y _{0.2} O _{3-δ} (0.0 ≤ y ≤ 0.8) for fuel cell applications. <i>Journal of Power Sources</i> , 2009, 193, 400-407.	4.0	242
51	Performance of a mixed-conducting ceramic membrane reactor with high oxygen permeability for methane conversion. <i>Journal of Membrane Science</i> , 2001, 183, 181-192.	4.1	237
52	Interfacial polymerization of covalent organic frameworks (COFs) on polymeric substrates for molecular separations. <i>Journal of Membrane Science</i> , 2018, 566, 197-204.	4.1	236
53	Intramolecular electronic coupling in porous iron cobalt (oxy)phosphide nanoboxes enhances the electrocatalytic activity for oxygen evolution. <i>Energy and Environmental Science</i> , 2019, 12, 3348-3355.	15.6	234
54	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.	7.8	230

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55	Recent advances in the interface engineering of solid-state Li-ion batteries with artificial buffer layers: challenges, materials, construction, and characterization. <i>Energy and Environmental Science</i> , 2019, 12, 1780-1804.	15.6	230
56	Advances in Cathode Materials for Solid Oxide Fuel Cells: Complex Oxides without Alkaline Earth Metal Elements. <i>Advanced Energy Materials</i> , 2015, 5, 1500537.	10.2	229
57	Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. <i>Trends in Chemistry</i> , 2019, 1, 410-424.	4.4	227
58	Re-evaluation of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} perovskite as oxygen semi-permeable membrane. <i>Journal of Membrane Science</i> , 2007, 291, 148-156.	4.1	226
59	Highly defective CeO ₂ as a promoter for efficient and stable water oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 634-640.	5.2	225
60	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803017.	10.2	224
61	Evaluation of A-site cation-deficient (Ba _{0.5} Sr _{0.5}) _{1-x} Co _{0.8} Fe _{0.2} O _{3-δ} ($x \geq 0$) perovskite as a solid-oxide fuel cell cathode. <i>Journal of Power Sources</i> , 2008, 182, 24-31.	4.0	218
62	Self-Catalyzed Growth of Co, N-Codoped CNTs on Carbon-Encased CoS _x Surface: A Noble-Metal-Free Bifunctional Oxygen Electrocatalyst for Flexible Solid Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1904481.	7.8	217
63	Carbon-based electrocatalysts for sustainable energy applications. <i>Progress in Materials Science</i> , 2021, 116, 100717.	16.0	216
64	Nanodiamonds in sp ² /sp ³ configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , 2018, 222, 176-181.	10.8	214
65	Bigger is Surprisingly Better: Agglomerates of Larger RuP Nanoparticles Outperform Benchmark Pt Nanocatalysts for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1800047.	11.1	212
66	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.	9.5	208
67	Promotion of Oxygen Reduction by Exsolved Silver Nanoparticles on a Perovskite Scaffold for Low-Temperature Solid Oxide Fuel Cells. <i>Nano Letters</i> , 2016, 16, 512-518.	4.5	202
68	Anion Doping: A New Strategy for Developing High-Performance Perovskite-Type Cathode Materials of Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700242.	10.2	198
69	Designing High-Valence Metal Sites for Electrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2009779.	7.8	195
70	Tunable titanium metal-organic frameworks with infinite 1D Ti-O rods for efficient visible-light-driven photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11928-11933.	5.2	192
71	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.	11.1	190
72	Unusual synergistic effect in layered Ruddlesden-Popper oxide enables ultrafast hydrogen evolution. <i>Nature Communications</i> , 2019, 10, 149.	5.8	187

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73	Water Splitting with an Enhanced Bifunctional Double Perovskite. <i>ACS Catalysis</i> , 2018, 8, 364-371.	5.5	186
74	Developing a "Water-Defendable" and "Dendrite-Free" Lithium Metal Anode Using a Simple and Promising GeCl_4 Pretreatment Method. <i>Advanced Materials</i> , 2018, 30, e1705711.	11.1	186
75	La-doped $\text{BaFeO}_{3-\delta}$ perovskite as a cobalt-free oxygen reduction electrode for solid oxide fuel cells with oxygen-ion conducting electrolyte. <i>Journal of Materials Chemistry</i> , 2012, 22, 15071.	6.7	184
76	Assessment of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ ($y=0\text{--}1.0$) for prospective application as cathode for IT-SOFCs or oxygen permeating membrane. <i>Electrochimica Acta</i> , 2007, 52, 7343-7351.	2.6	182
77	High-Quality Ruddlesden-Popper Perovskite Film Formation for High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2002582.	11.1	182
78	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below $500\text{--}600^\circ\text{C}$. <i>Nature Communications</i> , 2017, 8, 13990.	5.8	180
79	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , 2020, 3, 2124-2137.	5.0	177
80	Systematic Study of Oxygen Evolution Activity and Stability on $\text{La}_{1-x}\text{Sr}_x\text{FeO}_{3-\delta}$ Perovskite Electrocatalysts in Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11715-11721.	4.0	173
81	Enhancing Bi-functional Electrocatalytic Activity of Perovskite by Temperature Shock: A Case Study of $\text{LaNiO}_{3-\delta}$. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2982-2988.	2.1	172
82	Two orders of magnitude enhancement in oxygen evolution reactivity on amorphous $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ nanofilms with tunable oxidation state. <i>Science Advances</i> , 2017, 3, e1603206.	4.7	170
83	Simultaneous Power Conversion Efficiency and Stability Enhancement of $\text{Cs}_2\text{AgBiBr}_6$ Lead-Free Inorganic Perovskite Solar Cell through Adopting a Multifunctional Dye Interlayer. <i>Advanced Functional Materials</i> , 2020, 30, 2001557.	7.8	169
84	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.	15.6	163
85	Surface exchange and bulk diffusion properties of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ mixed conductor. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6948-6956.	3.8	161
86	Synthesis, oxygen permeation study and membrane performance of a $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ oxygen-permeable dense ceramic reactor for partial oxidation of methane to syngas. <i>Separation and Purification Technology</i> , 2001, 25, 97-116.	3.9	160
87	High-Performance GeTe -Based Thermoelectrics: from Materials to Devices. <i>Advanced Energy Materials</i> , 2020, 10, 2000367.	10.2	160
88	A new symmetric solid-oxide fuel cell with $\text{La}_{0.8}\text{Sr}_{0.2}\text{Sc}_{0.2}\text{Mn}_{0.8}\text{O}_{3-\delta}$ perovskite oxide as both the anode and cathode. <i>Acta Materialia</i> , 2009, 57, 1165-1175.	3.8	158
89	Evaluation of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ as a potential cathode for an anode-supported proton-conducting solid-oxide fuel cell. <i>Journal of Power Sources</i> , 2008, 180, 15-22.	4.0	156
90	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.	2.5	152

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91	Calcium-doped lanthanum nickelate layered perovskite and nickel oxide nano-hybrid for highly efficient water oxidation. <i>Nano Energy</i> , 2015, 12, 115-122.	8.2	144
92	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. <i>RSC Advances</i> , 2011, 1, 1661.	1.7	143
93	Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6350.	5.2	140
94	High activity electrocatalysts from metal-organic framework-carbon nanotube templates for the oxygen reduction reaction. <i>Carbon</i> , 2015, 82, 417-424.	5.4	140
95	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019, 29, 1904020.	7.8	140
96	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.	18.7	140
97	Screening highly active perovskites for hydrogen-evolving reaction via unifying ionic electronegativity descriptor. <i>Nature Communications</i> , 2019, 10, 3755.	5.8	139
98	Ruddlesden-Popper perovskites in electrocatalysis. <i>Materials Horizons</i> , 2020, 7, 2519-2565.	6.4	139
99	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.	2.5	139
100	A Highly Active Perovskite Electrode for the Oxygen Reduction Reaction Below 600°C. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14036-14040.	7.2	138
101	Fast Desalination by Multilayered Covalent Organic Framework (COF) Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16847-16854.	4.0	135
102	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. <i>Nature Communications</i> , 2020, 11, 5657.	5.8	134
103	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 9619.	6.7	133
104	Recent advances in anion-doped metal oxides for catalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7280-7300.	5.2	133
105	Efficient stabilization of cubic perovskite SrCoO ₃ by B-site low concentration scandium doping combined with sol-gel synthesis. <i>Journal of Alloys and Compounds</i> , 2008, 455, 465-470.	2.8	132
106	Boosting performance of lanthanide magnetism perovskite for advanced oxidation through lattice doping with catalytically inert element. <i>Chemical Engineering Journal</i> , 2019, 355, 721-730.	6.6	132
107	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.	10.2	132
108	Co ₃ O ₄ Nanosheets as Active Material for Hybrid Zn Batteries. <i>Small</i> , 2018, 14, e1800225.	5.2	131

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109	Combustion synthesis of high-performance Li ₄ Ti ₅ O ₁₂ for secondary Li-ion battery. <i>Ceramics International</i> , 2009, 35, 1757-1768.	2.3	130
110	Recent Advances in Perovskite Oxides as Electrode Materials for Nonaqueous Lithium–Oxygen Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602674.	10.2	129
111	Electrolyte materials for intermediate-temperature solid oxide fuel cells. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 764-774.	1.8	129
112	Progress and Prospects in Symmetrical Solid Oxide Fuel Cells with Two Identical Electrodes. <i>Advanced Energy Materials</i> , 2015, 5, 1500188.	10.2	128
113	High activity and durability of novel perovskite electrocatalysts for water oxidation. <i>Materials Horizons</i> , 2015, 2, 495-501.	6.4	128
114	Rationally Designed Hierarchically Structured Tungsten Nitride and Nitrogen–Rich Graphene–Like Carbon Nanocomposite as Efficient Hydrogen Evolution Electrocatalyst. <i>Advanced Science</i> , 2018, 5, 1700603.	5.6	128
115	High–Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021, 17, e2101573.	5.2	128
116	Homologous NiO//Ni ₂ P nanoarrays grown on nickel foams: a well matched electrode pair with high stability in overall water splitting. <i>Nanoscale</i> , 2017, 9, 4409-4418.	2.8	127
117	SrTiO ₃ -based thermoelectrics: Progress and challenges. <i>Nano Energy</i> , 2020, 78, 105195.	8.2	127
118	A new carbon fuel cell with high power output by integrating with in situ catalytic reverse Boudouard reaction. <i>Electrochemistry Communications</i> , 2009, 11, 1265-1268.	2.3	126
119	A novel efficient oxide electrode for electrocatalytic oxygen reduction at 400–600 °C. <i>Chemical Communications</i> , 2008, , 5791.	2.2	125
120	SrCo _{0.9} Ti _{0.1} O ₃ δ as a New Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Electrolyte with Stable Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17663-17670.	4.0	125
121	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.	5.2	125
122	Bifunctionality from Synergy: CoP Nanoparticles Embedded in Amorphous CoOx Nanoplates with Heterostructures for Highly Efficient Water Electrolysis. <i>Advanced Science</i> , 2018, 5, 1800514.	5.6	124
123	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. <i>Nature Communications</i> , 2020, 11, 3376.	5.8	122
124	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis. <i>Nature Communications</i> , 2022, 13, 1189.	5.8	122
125	Recent Advances in Metal–Organic Framework Derivatives as Oxygen Catalysts for Zinc–Air Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 272-289.	2.4	121
126	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.	7.3	119

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127	Barium- and strontium-enriched $(\text{Ba}_{0.5}\text{Sr}_{0.5})_{1-x}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ oxides as high-performance cathodes for intermediate-temperature solid-oxide fuel cells. <i>Acta Materialia</i> , 2008, 56, 2687-2698.	3.8	118
128	Synthesis of nanocrystalline conducting composite oxides based on a non-ion selective combined complexing process for functional applications. <i>Journal of Alloys and Compounds</i> , 2006, 426, 368-374.	2.8	117
129	Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. <i>Chemistry of Materials</i> , 2015, 27, 3048-3054.	3.2	117
130	Advanced perovskite anodes for solid oxide fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31275-31304.	3.8	117
131	Systematic investigation on new $\text{SrCo}_{1-x}\text{Yb}_x\text{O}_{3-\delta}$ ceramic membranes with high oxygen semi-permeability. <i>Journal of Membrane Science</i> , 2008, 323, 436-443.	4.1	114
132	Flexible, Flame-Resistant, and Dendrite-Impermeable Gel-Polymer Electrolyte for O_2/Air Batteries Workable Under Hurdle Conditions. <i>Small</i> , 2018, 14, e1801798.	5.2	113
133	One-Pot Synthesis of NiCo_2S_4 Hollow Spheres via Sequential Ion-Exchange as an Enhanced Oxygen Bifunctional Electrocatalyst in Alkaline Solution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29521-29531.	4.0	113
134	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.	11.1	113
135	Fundamental Understanding and Application of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ Perovskite in Energy Storage and Conversion: Past, Present, and Future. <i>Energy & Fuels</i> , 2021, 35, 13585-13609.	2.5	113
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