Wei Zhou

List of Publications by Year
in descending order

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711 papers	59,236 citations	767 119 h-index	2178 202 g-index
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. Nature, 2004, 431, 170-173.	27.8	2,737
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.	8.2	983
3	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. Chemical Reviews, 2015, 115, 9869-9921.	47.7	770
4	Research progress of perovskite materials in photocatalysis- and photovoltaics-related energy conversion and environmental treatment. Chemical Society Reviews, 2015, 44, 5371-5408.	38.1	725
5	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. Applied Catalysis B: Environmental, 2018, 224, 973-982.	20.2	694
6	Enhancing Electrocatalytic Activity of Perovskite Oxides by Tuning Cation Deficiency for Oxygen Reduction and Evolution Reactions. Chemistry of Materials, 2016, 28, 1691-1697.	6.7	635
7	Recent Progress in Metalâ€Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. Advanced Science, 2017, 4, 1600371.	11.2	594
8	A thermally self-sustained micro solid-oxide fuel-cell stack with high power density. Nature, 2005, 435, 795-798.	27.8	583
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.	31.8	501
10	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. ACS Catalysis, 2019, 9, 9973-10011.	11.2	491
11	Flexible Znâ€“ and Liâ€“air batteries: recent advances, challenges, and future perspectives. Energy and Environmental Science, 2017, 10, 2056-2080.	30.8	477
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.	7.9	461
13	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. Science Advances, 2018, 4, eaao6657.	10.3	460
14	Non-precious-metal catalysts for alkaline water electrolysis: operando characterizations, theoretical calculations, and recent advances. Chemical Society Reviews, 2020, 49, 9154-9196.	38.1	448
15	Stable Hierarchical Bimetalâ€“Organic Nanostructures as HighPerformance Electrocatalysts for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 4227-4231.	13.8	430
16	A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2016, 28, 6442-6448.	21.0	429
17	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. Applied Catalysis B: Environmental, 2018, 220, 626-634.	20.2	428
18	Progress in Solid Oxide Fuel Cells with Nickel-Based Anodes Operating on Methane and Related Fuels. Chemical Reviews, 2013, 113, 8104-8151.	47.7	420

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19	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.	7.8	409
20	SrNb_{0.1}Co_{0.7}Fe_{0.2}O_{3â^'Î´} Perovskite as a Nextâ€Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. Angewandte Chemie - International Edition, 2015, 54, 3897-3901.	13.8	400
21	Hydrogen Storage in a Prototypical Zeolitic Imidazolate Framework-8. Journal of the American Chemical Society, 2007, 129, 5314-5315.	13.7	393
22	Recent advances in nanostructured metal nitrides for water splitting. Journal of Materials Chemistry A, 2018, 6, 19912-19933.	10.3	392
23	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. Applied Catalysis B: Environmental, 2016, 194, 7-15.	20.2	390
24	Advanced synthesis of materials for intermediate-temperature solid oxide fuel cells. Progress in Materials Science, 2012, 57, 804-874.	32.8	372
25	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. Energy and Environmental Science, 2020, 13, 3361-3392.	30.8	370
26	A Perovskite Nanorod as Bifunctional Electrocatalyst for Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1602122.	19.5	369
27	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. Nature Communications, 2020, 11, 2002.	12.8	366
28	Advances in non-enzymatic glucose sensors based on metal oxides. Journal of Materials Chemistry B, 2016, 4, 7333-7349.	5.8	348
29	Surfactantâ€Assisted Phaseâ€Selective Synthesis of New Cobalt MOFs and Their Efficient Electrocatalytic Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2017, 56, 13001-13005.	13.8	334
30	Intermediate-temperature electrochemical performance of a polycrystalline PrBaCo2O5+ cathode on samarium-doped ceria electrolyte. Journal of Power Sources, 2009, 188, 96-105.	7.8	330
31	Thermal-expansion offset for high-performance fuel cell cathodes. Nature, 2021, 591, 246-251.	27.8	328
32	Perovskite oxides applications in high temperature oxygen separation, solid oxide fuel cell and membrane reactor: A review. Progress in Energy and Combustion Science, 2017, 61, 57-77.	31.2	314
33	Enhancing Electrocatalytic Activity for Hydrogen Evolution by Strongly Coupled Molybdenum Nitride@Nitrogen-Doped Carbon Porous Nano-Octahedrons. ACS Catalysis, 2017, 7, 3540-3547.	11.2	306
34	Molten salt synthesis of nitrogen-doped carbon with hierarchical pore structures for use as high-performance electrodes in supercapacitors. Carbon, 2015, 93, 48-58.	10.3	293
35	Self-Assembled Triple-Conducting Nanocomposite as a Superior Protonic Ceramic Fuel Cell Cathode. Joule, 2019, 3, 2842-2853.	24.0	292
36	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energyâ€Related Applications. Small Methods, 2018, 2, 1800071.	8.6	285

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37	Perovskite/Carbon Composites: Applications in Oxygen Electrocatalysis. Small, 2017, 13, 1603793.	10.0	277
38	The use of nitrogen-doped graphene supporting Pt nanoparticles as a catalyst for methanol electrocatalytic oxidation. Carbon, 2013, 52, 181-192.	10.3	275
39	Phosphorusâ€Doped Perovskite Oxide as Highly Efficient Water Oxidation Electrocatalyst in Alkaline Solution. Advanced Functional Materials, 2016, 26, 5862-5872.	14.9	271
40	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.	7.9	267
41	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. ACS Catalysis, 2017, 7, 388-397.	11.2	260
42	Recent Progress on Advanced Materials for Solidâ€Oxide Fuel Cells Operating Below 500 Â°C. Advanced Materials, 2017, 29, 1700132.	21.0	257
43	Nitrogen-doped simple and complex oxides for photocatalysis: A review. Progress in Materials Science, 2018, 92, 33-63.	32.8	257
44	Oxygen Reduction Reaction Activity of La-Based Perovskite Oxides in Alkaline Medium: A Thin-Film Rotating Ring-Disk Electrode Study. Journal of Physical Chemistry C, 2012, 116, 5827-5834.	3.1	253
45	Perovskite Oxide Based Electrodes for Highâ€Performance Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 136-152.	13.8	253
46	Biogas reforming for hydrogen production over nickel and cobalt bimetallic catalysts. International Journal of Hydrogen Energy, 2009, 34, 6646-6654.	7.1	252
47	A Highâ€Performance Electrocatalyst for Oxygen Evolution Reaction: LiCo_{0.8}Fe_{0.2}O₂. Advanced Materials, 2015, 27, 7150-7155.	21.0	249
48	Coâ€doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. Advanced Science, 2016, 3, 1500187.	11.2	245
49	An Amorphous Nickelâ€“Ironâ€Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1900883.	21.0	243
50	Zirconium doping effect on the performance of proton-conducting BaZryCe0.8â^'yY0.2O3â^'Î´ (0.0â‰¤yâ‰¤0.8) for fuel cell applications. Journal of Power Sources, 2009, 193, 400-407.	7.8	242
51	Performance of a mixed-conducting ceramic membrane reactor with high oxygen permeability for methane conversion. Journal of Membrane Science, 2001, 183, 181-192.	8.2	237
52	Interfacial polymerization of covalent organic frameworks (COFs) on polymeric substrates for molecular separations. Journal of Membrane Science, 2018, 566, 197-204.	8.2	236
53	Intramolecular electronic coupling in porous iron cobalt (oxy)phosphide nanoboxes enhances the electrocatalytic activity for oxygen evolution. Energy and Environmental Science, 2019, 12, 3348-3355.	30.8	234
54	Molecular Design of Mesoporous NiCo₂O₄ and NiCo₂S₄ with Subâ€Micrometerâ€Polyhedron Architectures for Efficient Pseudocapacitive Energy Storage. Advanced Functional Materials, 2017, 27, 1701229.	14.9	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. Energy and Environmental Science, 2019, 12, 1780-1804.	30.8	230
56	Advances in Cathode Materials for Solid Oxide Fuel Cells: Complex Oxides without Alkaline Earth Metal Elements. Advanced Energy Materials, 2015, 5, 1500537.	19.5	229
57	Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. Trends in Chemistry, 2019, 1, 410-424.	8.5	227
58	Re-evaluation of Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ perovskite as oxygen semi-permeable membrane. Journal of Membrane Science, 2007, 291, 148-156.	8.2	226
59	Highly defective CeO₂ as a promoter for efficient and stable water oxidation. Journal of Materials Chemistry A, 2015, 3, 634-640.	10.3	225
60	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803017.	19.5	224
61	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.	7.8	218
62	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, 1904481.	14.9	217
63	Carbon-based electrocatalysts for sustainable energy applications. Progress in Materials Science, 2021, 116, 100717.	32.8	216
64	Nanodiamonds in sp 2 /sp 3 configuration for radical to nonradical oxidation: Core-shell layer dependence. Applied Catalysis B: Environmental, 2018, 222, 176-181.	20.2	214
65	Bigger is Surprisingly Better: Agglomerates of Larger RuP Nanoparticles Outperform Benchmark Pt Nanocatalysts for the Hydrogen Evolution Reaction. Advanced Materials, 2018, 30, e1800047.	21.0	212
66	Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. Energy Storage Materials, 2020, 26, 1-22.	18.0	208
67	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.	9.1	202
68	Anion Doping: A New Strategy for Developing Highâ€Performance Perovskiteâ€Type Cathode Materials of Solid Oxide Fuel Cells. Advanced Energy Materials, 2017, 7, 1700242.	19.5	198
69	Designing Highâ€Valence Metal Sites for Electrochemical Water Splitting. Advanced Functional Materials, 2021, 31, 2009779.	14.9	195
70	Tunable titanium metalâ€"organic frameworks with infinite 1D Tiâ€"O rods for efficient visible-light-driven photocatalytic H₂ evolution. Journal of Materials Chemistry A, 2019, 7, 11928-11933.	10.3	192
71	Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Latticeâ€Oxygen Active Sites in a Complex Oxide. Advanced Materials, 2020, 32, e1905025.	21.0	190
72	Unusual synergistic effect in layered Ruddlesdenâ^'Popper oxide enables ultrafast hydrogen evolution. Nature Communications, 2019, 10, 149.	12.8	187

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73	Water Splitting with an Enhanced Bifunctional Double Perovskite. ACS Catalysis, 2018, 8, 364-371.	11.2	186
74	Developing a â€œWaterâ€Defendableâ€•and â€œDendriteâ€Freeâ€•Lithiumâ€Metal Anode Using a Simple and Promising GeCl₄ Pretreatment Method. Advanced Materials, 2018, 30, e1705711.	21.0	186
75	La-doped BaFeO3â^'Î´ perovskite as a cobalt-free oxygen reduction electrode for solid oxide fuel cells with oxygen-ion conducting electrolyte. Journal of Materials Chemistry, 2012, 22, 15071.	6.7	184
76	Assessment of Ba0.5Sr0.5Co1â^'yFeyO3â^'Î´ (y=0.0â€“1.0) for prospective application as cathode for IT-SOFCs or oxygen permeating membrane. Electrochimica Acta, 2007, 52, 7343-7351.	5.2	182
77	Highâ€Quality Ruddlesdenâ€“Popper Perovskite Film Formation for Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2021, 33, e2002582.	21.0	182
78	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500â€‰Â°C. Nature Communications, 2017, 8, 13990.	12.8	180
79	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. Matter, 2020, 3, 2124-2137.	10.0	177
80	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.	8.0	173
81	Enhancing Bi-functional Electrocatalytic Activity of Perovskite by Temperature Shock: A Case Study of LaNiO_{3â^'Î´}. Journal of Physical Chemistry Letters, 2013, 4, 2982-2988.	4.6	172
82	Two orders of magnitude enhancement in oxygen evolution reactivity on amorphous Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3â^'Î´} nanofilms with tunable oxidation state. Science Advances, 2017, 3, e1603206.	10.3	170
83	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, 2001557.	14.9	169
84	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.	30.8	163
85	Surface exchange and bulk diffusion properties of Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ mixed conductor. International Journal of Hydrogen Energy, 2011, 36, 6948-6956.	7.1	161
86	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.	7.9	160
87	Highâ€Performance GeTeâ€Based Thermoelectrics: from Materials to Devices. Advanced Energy Materials, 2020, 10, 2000367.	19.5	160
88	A new symmetric solid-oxide fuel cell with La0.8Sr0.2Sc0.2Mn0.8O3-Î´ perovskite oxide as both the anode and cathode. Acta Materialia, 2009, 57, 1165-1175.	7.9	158
89	Evaluation of Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´ as a potential cathode for an anode-supported proton-conducting solid-oxide fuel cell. Journal of Power Sources, 2008, 180, 15-22.	7.8	156
90	Toward Reducing the Operation Temperature of Solid Oxide Fuel Cells: Our Past 15 Years of Efforts in Cathode Development. Energy & Fuels, 2020, 34, 15169-15194.	5.1	152

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91	Calcium-doped lanthanum nickelate layered perovskite and nickel oxide nano-hybrid for highly efficient water oxidation. Nano Energy, 2015, 12, 115-122.	16.0	144
92	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. RSC Advances, 2011, 1, 1661.	3.6	143
93	Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. Journal of Materials Chemistry A, 2013, 1, 6350.	10.3	140
94	High activity electrocatalysts from metalâ€“organic framework-carbon nanotube templates for the oxygen reduction reaction. Carbon, 2015, 82, 417-424.	10.3	140
95	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. Advanced Functional Materials, 2019, 29, 1904020.	14.9	140
96	Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. Chemical Society Reviews, 2021, 50, 10116-10211.	38.1	140
97	Screening highly active perovskites for hydrogen-evolving reaction via unifying ionic electronegativity descriptor. Nature Communications, 2019, 10, 3755.	12.8	139
98	Ruddlesdenâ€“Popper perovskites in electrocatalysis. Materials Horizons, 2020, 7, 2519-2565.	12.2	139
99	Recent Advances in Cs₂AgBiBr₆-Based Halide Double Perovskites as Lead-Free and Inorganic Light Absorbers for Perovskite Solar Cells. Energy & Fuels, 2020, 34, 10513-10528.	5.1	139
100	A Highly Active Perovskite Electrode for the Oxygen Reduction Reaction Below 600â€‰Â°C. Angewandte Chemie - International Edition, 2013, 52, 14036-14040.	13.8	138
101	Fast Desalination by Multilayered Covalent Organic Framework (COF) Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 16847-16854.	8.0	135
102	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. Nature Communications, 2020, 11, 5657.	12.8	134
103	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry, 2010, 20, 9619.	6.7	133
104	Recent advances in anion-doped metal oxides for catalytic applications. Journal of Materials Chemistry A, 2019, 7, 7280-7300.	10.3	133
105	Efficient stabilization of cubic perovskite SrCoO3â˜Î´ by B-site low concentration scandium doping combined with solâ€“gel synthesis. Journal of Alloys and Compounds, 2008, 455, 465-470.	5.5	132
106	Boosting performance of lanthanide magnetism perovskite for advanced oxidation through lattice doping with catalytically inert element. Chemical Engineering Journal, 2019, 355, 721-730.	12.7	132
107	Advances in Zeolite Imidazolate Frameworks (ZIFs) Derived Bifunctional Oxygen Electrocatalysts and Their Application in Zincâ€“Air Batteries. Advanced Energy Materials, 2021, 11, 2100514.	19.5	132
108	Co₃O₄ Nanosheets as Active Material for Hybrid Zn Batteries. Small, 2018, 14, e1800225.	10.0	131

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109	Combustion synthesis of high-performance Li4Ti5O12 for secondary Li-ion battery. Ceramics International, 2009, 35, 1757-1768.	4.8	130
110	Recent Advances in Perovskite Oxides as Electrode Materials for Nonaqueous Lithiumâ€“Oxygen Batteries. Advanced Energy Materials, 2017, 7, 1602674.	19.5	129
111	Electrolyte materials for intermediate-temperature solid oxide fuel cells. Progress in Natural Science: Materials International, 2020, 30, 764-774.	4.4	129
112	Progress and Prospects in Symmetrical Solid Oxide Fuel Cells with Two Identical Electrodes. Advanced Energy Materials, 2015, 5, 1500188.	19.5	128
113	High activity and durability of novel perovskite electrocatalysts for water oxidation. Materials Horizons, 2015, 2, 495-501.	12.2	128
114	Rationally Designed Hierarchically Structured Tungsten Nitride and Nitrogenâ€Rich Grapheneâ€Like Carbon Nanocomposite as Efficient Hydrogen Evolution Electrocatalyst. Advanced Science, 2018, 5, 1700603.	11.2	128
115	Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. Small, 2021, 17, e2101573.	10.0	128
116	Homologous NiO//Ni₂P nanoarrays grown on nickel foams: a well matched electrode pair with high stability in overall water splitting. Nanoscale, 2017, 9, 4409-4418.	5.6	127
117	SrTiO3-based thermoelectrics: Progress and challenges. Nano Energy, 2020, 78, 105195.	16.0	127
118	A new carbon fuel cell with high power output by integrating with in situ catalytic reverse Boudouard reaction. Electrochemistry Communications, 2009, 11, 1265-1268.	4.7	126
119	A novel efficient oxide electrode for electrocatalytic oxygen reduction at 400â€“600 Â°C. Chemical Communications, 2008, , 5791.	4.1	125
120	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.	8.0	125
121	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.	10.3	125
122	Bifunctionality from Synergy: CoP Nanoparticles Embedded in Amorphous CoOx Nanoplates with Heterostructures for Highly Efficient Water Electrolysis. Advanced Science, 2018, 5, 1800514.	11.2	124
123	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. Nature Communications, 2020, 11, 3376.	12.8	122
124	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis. Nature Communications, 2022, 13, 1189.	12.8	122
125	Recent Advances in Metalâ€Organic Framework Derivatives as Oxygen Catalysts for Zincâ€Air Batteries. Batteries and Supercaps, 2019, 2, 272-289.	4.7	121
126	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metalâ€“Air Batteries. Energy and Environmental Materials, 2020, 3, 121-145.	12.8	119

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127	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.	7.9	118
128	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.	5.5	117
129	Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. Chemistry of Materials, 2015, 27, 3048-3054.	6.7	117
130	Advanced perovskite anodes for solid oxide fuel cells: A review. International Journal of Hydrogen Energy, 2019, 44, 31275-31304.	7.1	117
131	Systematic investigation on new SrCo1â^'yNbyO3â^'Î´ ceramic membranes with high oxygen semi-permeability. Journal of Membrane Science, 2008, 323, 436-443.	8.2	114
132	Flexible, Flameâ€Resistant, and Dendriteâ€Impermeable Gelâ€Polymer Electrolyte for Liâ€“O₂/Air Batteries Workable Under Hurdle Conditions. Small, 2018, 14, e1801798.	10.0	113
133	One-Pot Synthesis of NiCo₂S₄ Hollow Spheres via Sequential Ion-Exchange as an Enhanced Oxygen Bifunctional Electrocatalyst in Alkaline Solution. ACS Applied Materials & Interfaces, 2018, 10, 29521-29531.	8.0	113
134	A Cobaltâ€Free Multiâ€Phase Nanocomposite as Nearâ€Ideal Cathode of Intermediateâ€Temperature Solid Oxide Fuel Cells Developed by Smart Selfâ€Assembly. Advanced Materials, 2020, 32, e1906979.	21.0	113
135	Fundamental Understanding and Application of Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3â^'Î´}Perovskite in Energy Storage and Conversion: Past, Present, and Future. Energy & Fuels, 2021, 35, 13585-13609.	5.1	113
136	Novel B-site ordered double perovskite Ba₂Bi_{0.1}Sc_{0.2}Co_{1.7}O_{6â^'x}for highly efficient oxygen reduction reaction. Energy and Environmental Science, 2011, 4, 872-875.	30.8	112
137	Properties and performance of A-site deficient (Ba0.5Sr0.5)1â^'xCo0.8Fe0.2O3â^'Î´ for oxygen permeating membrane. Journal of Membrane Science, 2007, 306, 318-328.	8.2	111
138	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, 1902384.	19.5	111
139	Cobalt Oxide and Cobaltâ€Graphitic Carbon Coreâ€“Shell Based Catalysts with Remarkably High Oxygen Reduction Reaction Activity. Advanced Science, 2016, 3, 1600060.	11.2	109
140	A Universal Strategy to Design Superior Waterâ€Splitting Electrocatalysts Based on Fast In Situ Reconstruction of Amorphous Nanofilm Precursors. Advanced Materials, 2018, 30, e1804333.	21.0	108
141	Electrochemistry and energy conversion features of protonic ceramic cells with mixed ionic-electronic electrolytes. Energy and Environmental Science, 2022, 15, 439-465.	30.8	108
142	Novel SrSc0.2Co0.8O3â^' as a cathode material for low temperature solid-oxide fuel cell. Electrochemistry Communications, 2008, 10, 1647-1651.	4.7	107
143	BaNb0.05Fe0.95O3â^'Î´ as a new oxygen reduction electrocatalyst for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2013, 1, 9781.	10.3	107
144	Rational Design of Agâ€Based Catalysts for the Electrochemical CO₂ Reduction to CO: A Review. ChemSusChem, 2020, 13, 39-58.	6.8	106

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145	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.	5.2	105
146	Facile synthesis of nitrogen-doped carbon nanotubes encapsulating nickel cobalt alloys 3D networks for oxygen evolution reaction in an alkaline solution. Journal of Power Sources, 2017, 338, 26-33.	7.8	105
147	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.	12.7	102
148	Design of Perovskite Oxides as Anion-Intercalation-Type Electrodes for Supercapacitors: Cation Leaching Effect. ACS Applied Materials & Interfaces, 2016, 8, 23774-23783.	8.0	101
149	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	101
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