Zongping Shao

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	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	Enhancement of Pt and Pt-alloy fuel cell catalyst activity and durability via nitrogen-modified carbon supports. Energy and Environmental Science, 2010, 3, 1437.	30.8	586
9	A thermally self-sustained micro solid-oxide fuel-cell stack with high power density. Nature, 2005, 435, 795-798.	27.8	583
10	Recent progress on sodium ion batteries: potential high-performance anodes. Energy and Environmental Science, 2018, 11, 2310-2340.	30.8	561
11	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
12	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. ACS Catalysis, 2019, 9, 9973-10011.	11.2	491
13	Flexible Znâ€“ and Liâ€“air batteries: recent advances, challenges, and future perspectives. Energy and Environmental Science, 2017, 10, 2056-2080.	30.8	477
14	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
15	A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. Advanced Materials, 2016, 28, 6442-6448.	21.0	429
16	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
17	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
18	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

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19	SrNb_{0.1}Co_{0.7}Fe_{0.2}O_{3âÎ´} Perovskite as a Nextâ€Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. Angewandte Chemie - International Edition, 2015, 54, 3897-3901.	13.8	400
20	Recent advances in nanostructured metal nitrides for water splitting. Journal of Materials Chemistry A, 2018, 6, 19912-19933.	10.3	392
21	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. Applied Catalysis B: Environmental, 2016, 194, 7-15.	20.2	390
22	Advanced synthesis of materials for intermediate-temperature solid oxide fuel cells. Progress in Materials Science, 2012, 57, 804-874.	32.8	372
23	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. Energy and Environmental Science, 2020, 13, 3361-3392.	30.8	370
24	A Perovskite Nanorod as Bifunctional Electrocatalyst for Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1602122.	19.5	369
25	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. Nature Communications, 2020, 11, 2002.	12.8	366
26	Advances in non-enzymatic glucose sensors based on metal oxides. Journal of Materials Chemistry B, 2016, 4, 7333-7349.	5.8	348
27	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
28	Thermal-expansion offset for high-performance fuel cell cathodes. Nature, 2021, 591, 246-251.	27.8	328
29	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
30	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
31	Self-Assembled Triple-Conducting Nanocomposite as a Superior Protonic Ceramic Fuel Cell Cathode. Joule, 2019, 3, 2842-2853.	24.0	292
32	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energyâ€Related Applications. Small Methods, 2018, 2, 1800071.	8.6	285
33	Perovskite/Carbon Composites: Applications in Oxygen Electrocatalysis. Small, 2017, 13, 1603793.	10.0	277
34	The use of nitrogen-doped graphene supporting Pt nanoparticles as a catalyst for methanol electrocatalytic oxidation. Carbon, 2013, 52, 181-192.	10.3	275
35	Phosphorusâ€Doped Perovskite Oxide as Highly Efficient Water Oxidation Electrocatalyst in Alkaline Solution. Advanced Functional Materials, 2016, 26, 5862-5872.	14.9	271
36	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

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37	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
38	Recent Progress on Advanced Materials for Solidâ€Oxide Fuel Cells Operating Below 500 Â°C. Advanced Materials, 2017, 29, 1700132.	21.0	257
39	Nitrogen-doped simple and complex oxides for photocatalysis: A review. Progress in Materials Science, 2018, 92, 33-63.	32.8	257
40	Perovskite Oxide Based Electrodes for Highâ€Performance Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 136-152.	13.8	253
41	A Highâ€Performance Electrocatalyst for Oxygen Evolution Reaction: LiCo_{0.8}Fe_{0.2}O₂. Advanced Materials, 2015, 27, 7150-7155.	21.0	249
42	Coâ€doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. Advanced Science, 2016, 3, 1500187.	11.2	245
43	An Amorphous Nickelâ€“Ironâ€Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1900883.	21.0	243
44	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
45	Facile Synthesis of Nanocrystalline TiO₂ Mesoporous Microspheres for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 2529-2536.	3.1	242
46	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
47	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
48	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
49	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
50	Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. Trends in Chemistry, 2019, 1, 410-424.	8.5	227
51	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
52	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803017.	19.5	224
53	Synthesis of pristine and carbon-coated Li4Ti5O12 and their low-temperature electrochemical performance. Journal of Power Sources, 2010, 195, 4997-5004.	7.8	220
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	A porous LiFePO4 and carbon nanotube composite. Chemical Communications, 2010, 46, 7151.	4.1	195
62	Designing Highâ€Valence Metal Sites for Electrochemical Water Splitting. Advanced Functional Materials, 2021, 31, 2009779.	14.9	195
63	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
64	Unusual synergistic effect in layered Ruddlesdenâ^'Popper oxide enables ultrafast hydrogen evolution. Nature Communications, 2019, 10, 149.	12.8	187
65	Water Splitting with an Enhanced Bifunctional Double Perovskite. ACS Catalysis, 2018, 8, 364-371.	11.2	186
66	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
67	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
68	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
69	Highâ€Quality Ruddlesdenâ€“Popper Perovskite Film Formation for Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2021, 33, e2002582.	21.0	182
70	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
71	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
72	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

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73	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
74	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.	7.8	167
75	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
76	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
77	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
78	Highâ€Performance GeTeâ€Based Thermoelectrics: from Materials to Devices. Advanced Energy Materials, 2020, 10, 2000367.	19.5	160
79	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
80	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
81	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
82	Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. RSC Advances, 2011, 1, 1661.	3.6	143
83	Binder-free Î±-MoO3 nanobelt electrode for lithium-ion batteries utilizing van der Waals forces for film formation and connection with current collector. Journal of Materials Chemistry A, 2013, 1, 4736.	10.3	142
84	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
85	Screening highly active perovskites for hydrogen-evolving reaction via unifying ionic electronegativity descriptor. Nature Communications, 2019, 10, 3755.	12.8	139
86	Ruddlesdenâ€“Popper perovskites in electrocatalysis. Materials Horizons, 2020, 7, 2519-2565.	12.2	139
87	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
88	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
89	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry, 2010, 20, 9619.	6.7	133
90	Recent advances in anion-doped metal oxides for catalytic applications. Journal of Materials Chemistry A, 2019, 7, 7280-7300.	10.3	133

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91	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
92	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
93	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
94	Co₃O₄ Nanosheets as Active Material for Hybrid Zn Batteries. Small, 2018, 14, e1800225.	10.0	131
95	Combustion synthesis of high-performance Li4Ti5O12 for secondary Li-ion battery. Ceramics International, 2009, 35, 1757-1768.	4.8	130
96	Recent Advances in Perovskite Oxides as Electrode Materials for Nonaqueous Lithiumâ€“Oxygen Batteries. Advanced Energy Materials, 2017, 7, 1602674.	19.5	129
97	Progress and Prospects in Symmetrical Solid Oxide Fuel Cells with Two Identical Electrodes. Advanced Energy Materials, 2015, 5, 1500188.	19.5	128
98	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
99	Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. Small, 2021, 17, e2101573.	10.0	128
100	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
101	A novel efficient oxide electrode for electrocatalytic oxygen reduction at 400â€“600 Â°C. Chemical Communications, 2008, , 5791.	4.1	125
102	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
103	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
104	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
105	Process investigation, electrochemical characterization and optimization of LiFePO4/C composite from mechanical activation using sucrose as carbon source. Electrochimica Acta, 2009, 54, 2861-2868.	5.2	122
106	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
107	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis. Nature Communications, 2022, 13, 1189.	12.8	122
108	Recent Advances in Metalâ€Organic Framework Derivatives as Oxygen Catalysts for Zincâ€Air Batteries. Batteries and Supercaps, 2019, 2, 272-289.	4.7	121

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109	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
110	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
111	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
112	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
113	Selenic Acid Etching Assisted Vacancy Engineering for Designing Highly Active Electrocatalysts toward the Oxygen Evolution Reaction. Advanced Materials, 2021, 33, e2007523.	21.0	116
114	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
115	Plasma activation and atomic layer deposition of TiO2 on polypropylene membranes for improved performances of lithium-ion batteries. Journal of Membrane Science, 2014, 458, 217-224.	8.2	113
116	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
117	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
118	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
119	Nitrogen- and TiN-modified Li4Ti5O12: one-step synthesis and electrochemical performance optimization. Journal of Materials Chemistry, 2012, 22, 17773.	6.7	112
120	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
121	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
122	Investigation on POM reaction in a new perovskite membrane reactor. Catalysis Today, 2001, 67, 3-13.	4.4	109
123	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
124	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
125	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
126	Novel SrSc0.2Co0.8O3â^' as a cathode material for low temperature solid-oxide fuel cell. Electrochemistry Communications, 2008, 10, 1647-1651.	4.7	107

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127	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
128	Rational Design of Agâ€Based Catalysts for the Electrochemical CO₂ Reduction to CO: A Review. ChemSusChem, 2020, 13, 39-58.	6.8	106
129	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
130	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
131	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
132	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
133	Trapping sulfur in hierarchically porous, hollow indented carbon spheres: a high-performance cathode for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 9526-9535.	10.3	100
134	Evaluation of the CO₂ Poisoning Effect on a Highly Active Cathode SrSc_{0.175}Nb_{0.025}Co_{0.8}O_{3-Î´} in the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 3003-3011.	8.0	99
135	Highly Defective Layered Double Perovskite Oxide for Efficient Energy Storage via Reversible Pseudocapacitive Oxygenâ€Anion Intercalation. Advanced Energy Materials, 2018, 8, 1702604.	19.5	99
136	Facile Mechanochemical Synthesis of Nano SnO₂/Graphene Composite from Coarse Metallic Sn and Graphite Oxide: An Outstanding Anode Material for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2014, 20, 4055-4063.	3.3	98
137	Facile synthesis of a MoO2â€“Mo2Câ€“C composite and its application as favorable anode material for lithium-ion batteries. Journal of Power Sources, 2016, 307, 552-560.	7.8	98
138	Highâ€Performance Platinumâ€Perovskite Composite Bifunctional Oxygen Electrocatalyst for Rechargeable Znâ€“Air Battery. Advanced Energy Materials, 2020, 10, 1903271.	19.5	98
139	Synthesis and oxygen permeation study of novel perovskite-type BaBixCo0.2Fe0.8â^'xO3â^'Î´ ceramic membranes. Journal of Membrane Science, 2000, 164, 167-176.	8.2	97
140	Proton-conducting fuel cells operating on hydrogen, ammonia and hydrazine at intermediate temperatures. International Journal of Hydrogen Energy, 2010, 35, 2637-2642.	7.1	97
141	Green synthesis of mesoporous ZnFe2O4/C composite microspheres as superior anode materials for lithium-ion batteries. Journal of Power Sources, 2014, 258, 305-313.	7.8	97
142	Solidâ€Oxide Fuel Cells: Recent Progress on Advanced Materials for Solidâ€Oxide Fuel Cells Operating Below 500 Â°C (Adv. Mater. 48/2017). Advanced Materials, 2017, 29, 1770345.	21.0	97
143	Smart Construction of an Intimate Lithium | Garnet Interface for Allâ€Solidâ€State Batteries by Tuning the Tension of Molten Lithium. Advanced Functional Materials, 2021, 31, 2101556.	14.9	97
144	A new dual-ion hybrid energy storage system with energy density comparable to that of ternary lithium ion batteries. Journal of Materials Chemistry A, 2020, 8, 2571-2580.	10.3	95

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145	High power-density single-chamber fuel cells operated on methane. Journal of Power Sources, 2006, 162, 589-596.	7.8	94
146	Searching General Sufficientâ€andâ€Necessary Conditions for Ultrafast Hydrogenâ€Evolving Electrocatalysis. Advanced Functional Materials, 2019, 29, 1900704.	14.9	94
147	Surprisingly High Activity for Oxygen Reduction Reaction of Selected Oxides Lacking Long Oxygen-Ion Diffusion Paths at Intermediate Temperatures: A Case Study of Cobalt-Free BaFeO_{3-Î´}. ACS Applied Materials & Interfaces, 2014, 6, 11180-11189.	8.0	93
148	Probing CO2 reaction mechanisms and effects on the SrNb0.1Co0.9â^'xFexO3â^'Î´ cathodes for solid oxide fuel cells. Applied Catalysis B: Environmental, 2015, 172-173, 52-57.	20.2	93
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