

# Wei Zhou

## List of Publications by Citations

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708  
papers

41,523  
citations

100  
h-index

169  
g-index

734  
ext. papers

49,994  
ext. citations

10.7  
avg, IF

8.23  
L-index

#	Paper	IF	Citations
708	A high-performance cathode for the next generation of solid-oxide fuel cells. <i>Nature</i> , <b>2004</b> , 431, 170-3	50.4	2425
707	Investigation of the permeation behavior and stability of a Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> oxygen membrane. <i>Journal of Membrane Science</i> , <b>2000</b> , 172, 177-188	9.6	862
706	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. <i>Chemical Reviews</i> , <b>2015</b> , 115, 9869-921	68.1	631
705	Research progress of perovskite materials in photocatalysis- and photovoltaics-related energy conversion and environmental treatment. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 5371-408	58.5	580
704	A thermally self-sustained micro solid-oxide fuel-cell stack with high power density. <i>Nature</i> , <b>2005</b> , 435, 795-8	50.4	517
703	Enhancing Electrocatalytic Activity of Perovskite Oxides by Tuning Cation Deficiency for Oxygen Reduction and Evolution Reactions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1691-1697	9.6	443
702	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , <b>2017</b> , 4, 1600371	13.6	440
701	Nonradical reactions in environmental remediation processes: Uncertainty and challenges. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 224, 973-982	21.8	397
700	Synthesis, characterization and evaluation of cation-ordered LnBaCo <sub>2</sub> O <sub>5+δ</sub> as materials of oxygen permeation membranes and cathodes of SOFCs. <i>Acta Materialia</i> , <b>2008</b> , 56, 4876-4889	8.4	391
699	A comprehensive review of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -based electrodes for lithium-ion batteries: The latest advancements and future perspectives. <i>Materials Science and Engineering Reports</i> , <b>2015</b> , 98, 1-71	30.9	389
698	Progress in understanding and development of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> based cathodes for intermediate-temperature solid-oxide fuel cells: A review. <i>Journal of Power Sources</i> , <b>2009</b> , 192, 231-246	8.9	367
697	Hydrogen storage in a prototypical zeolitic imidazolate framework-8. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 5314-5	16.4	357
696	Flexible Zn and Li air batteries: recent advances, challenges, and future perspectives. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2056-2080	35.4	353
695	SrNb <sub>0.1</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> perovskite as a next-generation electrocatalyst for oxygen evolution in alkaline solution. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3897-901	16.4	345
694	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , <b>2018</b> , 4, eaao6657	14.3	344
693	Progress in solid oxide fuel cells with nickel-based anodes operating on methane and related fuels. <i>Chemical Reviews</i> , <b>2013</b> , 113, 8104-51	68.1	342
692	A Perovskite Electrocatalyst for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2016</b> , 28, 6442-8	24	315

691	Stable Hierarchical Bimetal-Organic Nanostructures as HighPerformance Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4227-4231	16.4	309
690	Advanced synthesis of materials for intermediate-temperature solid oxide fuel cells. <i>Progress in Materials Science</i> , <b>2012</b> , 57, 804-874	42.2	306
689	Intermediate-temperature electrochemical performance of a polycrystalline PrBaCo2O5+ $\delta$ cathode on samarium-doped ceria electrolyte. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 96-105	8.9	282
688	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 194, 7-15	21.8	277
687	Surfactant-Assisted Phase-Selective Synthesis of New Cobalt MOFs and Their Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13001-13005	16.4	275
686	Insights into perovskite-catalyzed peroxymonosulfate activation: Maneuverable cobalt sites for promoted evolution of sulfate radicals. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 220, 626-634	21.8	274
685	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9973-10011	13.1	269
684	A Perovskite Nanorod as Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602122	21.8	262
683	Advances in non-enzymatic glucose sensors based on metal oxides. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7333-7349	7.3	252
682	Recent advances in nanostructured metal nitrides for water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19912-19933	13	243
681	The use of nitrogen-doped graphene supporting Pt nanoparticles as a catalyst for methanol electrocatalytic oxidation. <i>Carbon</i> , <b>2013</b> , 52, 181-192	10.4	242
680	Molten salt synthesis of nitrogen-doped carbon with hierarchical pore structures for use as high-performance electrodes in supercapacitors. <i>Carbon</i> , <b>2015</b> , 93, 48-58	10.4	240
679	Ba effect in doped Sr(Co <sub>0.8</sub> Fe <sub>0.2</sub> )O <sub>3-<math>\delta</math></sub> on the phase structure and oxygen permeation properties of the dense ceramic membranes. <i>Separation and Purification Technology</i> , <b>2001</b> , 25, 419-429	8.3	238
678	Enhancing Electrocatalytic Activity for Hydrogen Evolution by Strongly Coupled Molybdenum [email[protected]] Carbon Porous Nano-Octahedrons. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3540-3547	13.1	235
677	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> , <b>2012</b> , 116, 5827-5834	3.8	228
676	Biogas reforming for hydrogen production over nickel and cobalt bimetallic catalysts. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 6646-6654	6.7	218
675	Performance of a mixed-conducting ceramic membrane reactor with high oxygen permeability for methane conversion. <i>Journal of Membrane Science</i> , <b>2001</b> , 183, 181-192	9.6	209
674	A High-Performance Electrocatalyst for Oxygen Evolution Reaction: LiCo <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>2</sub> . <i>Advanced Materials</i> , <b>2015</b> , 27, 7150-5	24	205

673	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> , <b>2017</b> , 61, 57-77	33.6	202
672	Zirconium doping effect on the performance of proton-conducting $\text{BaZr}_y\text{Ce}_{0.8-y}\text{Y}_{0.2}\text{O}_{3-(0.05y-0.8)}$ for fuel cell applications. <i>Journal of Power Sources</i> , <b>2009</b> , 193, 400-407	8.9	202
671	Re-evaluation of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ perovskite as oxygen semi-permeable membrane. <i>Journal of Membrane Science</i> , <b>2007</b> , 291, 148-156	9.6	202
670	Phosphorus-Doped Perovskite Oxide as Highly Efficient Water Oxidation Electrocatalyst in Alkaline Solution. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5862-5872	15.6	199
669	Perovskite/Carbon Composites: Applications in Oxygen Electrocatalysis. <i>Small</i> , <b>2017</b> , 13, 1603793	11	197
668	Co-doping Strategy for Developing Perovskite Oxides as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Advanced Science</i> , <b>2016</b> , 3, 1500187	13.6	196
667	Nitrogen-doped simple and complex oxides for photocatalysis: A review. <i>Progress in Materials Science</i> , <b>2018</b> , 92, 33-63	42.2	189
666	Mixed Conducting Perovskite Materials as Superior Catalysts for Fast Aqueous-Phase Advanced Oxidation: A Mechanistic Study. <i>ACS Catalysis</i> , <b>2017</b> , 7, 388-397	13.1	186
665	Evaluation of A-site cation-deficient ( $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ ) perovskite as a solid-oxide fuel cell cathode. <i>Journal of Power Sources</i> , <b>2008</b> , 182, 24-31	8.9	186
664	Molecular Design of Mesoporous $\text{NiCo}_2\text{O}_4$ and $\text{NiCo}_2\text{S}_4$ with Sub-Micrometer-Polyhedron Architectures for Efficient Pseudocapacitive Energy Storage. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701229	15.6	185
663	Highly defective $\text{CeO}_2$ as a promoter for efficient and stable water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 634-640	13	169
662	Advances in Cathode Materials for Solid Oxide Fuel Cells: Complex Oxides without Alkaline Earth Metal Elements. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500537	21.8	169
661	Recent Advances in Novel Nanostructuring Methods of Perovskite Electrocatalysts for Energy-Related Applications. <i>Small Methods</i> , <b>2018</b> , 2, 1800071	12.8	169
660	Recent Progress on Advanced Materials for Solid-Oxide Fuel Cells Operating Below 500 °C. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700132	24	167
659	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , <b>2020</b> , 11, 2002	17.4	166
658	Promotion of Oxygen Reduction by Exsolved Silver Nanoparticles on a Perovskite Scaffold for Low-Temperature Solid Oxide Fuel Cells. <i>Nano Letters</i> , <b>2016</b> , 16, 512-8	11.5	164
657	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> , <b>2019</b> , 12, 1780-1804	35.4	163
656	An Amorphous Nickel-Iron-Based Electrocatalyst with Unusual Local Structures for Ultrafast Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900883	24	161

655	Assessment of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>1-y</sub> Fe <sub>y</sub> O <sub>3-δ</sub> (y=0.01, 0) for prospective application as cathode for IT-SOFCs or oxygen permeating membrane. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 7343-7351	6.7	160
654	Nanodiamonds in sp <sup>2</sup> /sp <sup>3</sup> configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 222, 176-181	21.8	157
653	La-doped BaFeO <sub>3-δ</sub> perovskite as a cobalt-free oxygen reduction electrode for solid oxide fuel cells with oxygen-ion conducting electrolyte. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 15071		156
652	Tunable titanium metal-organic frameworks with infinite 1D TiO rods for efficient visible-light-driven photocatalytic H <sub>2</sub> evolution. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11928-11933	13	153
651	Metal oxide-based materials as an emerging family of hydrogen evolution electrocatalysts. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3361-3392	35.4	151
650	Fundamental Understanding of Photocurrent Hysteresis in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803017	21.8	148
649	Non-precious-metal catalysts for alkaline water electrolysis: operando characterizations, theoretical calculations, and recent advances. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 9154-9196	58.5	147
648	Intramolecular electronic coupling in porous iron cobalt (oxy)phosphide nanoboxes enhances the electrocatalytic activity for oxygen evolution. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3348-3355	35.4	147
647	Interfacial polymerization of covalent organic frameworks (COFs) on polymeric substrates for molecular separations. <i>Journal of Membrane Science</i> , <b>2018</b> , 566, 197-204	9.6	145
646	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C. <i>Nature Communications</i> , <b>2017</b> , 8, 13990	17.4	144
645	Self-Catalyzed Growth of Co, N-Codoped CNTs on Carbon-Encased Co <sub>x</sub> Surface: A Noble-Metal-Free Bifunctional Oxygen Electrocatalyst for Flexible Solid Zn-Air Batteries. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904481	15.6	144
644	Developing a "Water-Defendable" and "Dendrite-Free" Lithium-Metal Anode Using a Simple and Promising GeCl Pretreatment Method. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705711	24	142
643	Enhancing Bi-functional Electrocatalytic Activity of Perovskite by Temperature Shock: A Case Study of LaNiO <sub>3</sub> . <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2982-2988	6.4	142
642	Synthesis, oxygen permeation study and membrane performance of a Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> oxygen-permeable dense ceramic reactor for partial oxidation of methane to syngas. <i>Separation and Purification Technology</i> , <b>2001</b> , 25, 97-116	8.3	141
641	A new symmetric solid-oxide fuel cell with La <sub>0.8</sub> Sr <sub>0.2</sub> Sc <sub>0.2</sub> Mn <sub>0.8</sub> O <sub>3-δ</sub> perovskite oxide as both the anode and cathode. <i>Acta Materialia</i> , <b>2009</b> , 57, 1165-1175	8.4	140
640	Bigger is Surprisingly Better: Agglomerates of Larger RuP Nanoparticles Outperform Benchmark Pt Nanocatalysts for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800047	24	139
639	Evaluation of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> as a potential cathode for an anode-supported proton-conducting solid-oxide fuel cell. <i>Journal of Power Sources</i> , <b>2008</b> , 180, 15-22	8.9	138
638	Perovskite Oxide Based Electrodes for High-Performance Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 136-152	16.4	135

- 637 Two orders of magnitude enhancement in oxygen evolution reactivity on amorphous BaSrCoFeO nanofilms with tunable oxidation state. *Science Advances*, **2017**, 3, e1603206 14.3 134
- 636 Anion Doping: A New Strategy for Developing High-Performance Perovskite-Type Cathode Materials of Solid Oxide Fuel Cells. *Advanced Energy Materials*, **2017**, 7, 1700242 21.8 132
- 635 Water Splitting with an Enhanced Bifunctional Double Perovskite. *ACS Catalysis*, **2018**, 8, 364-371 13.1 132
- 634 Self-Assembled Triple-Conducting Nanocomposite as a Superior Protonic Ceramic Fuel Cell Cathode. *Joule*, **2019**, 3, 2842-2853 27.8 127
- 633 Surface exchange and bulk diffusion properties of Ba<sub>0.5</sub>Sr<sub>0.5</sub>Co<sub>0.8</sub>Fe<sub>0.2</sub>O<sub>3</sub> mixed conductor. *International Journal of Hydrogen Energy*, **2011**, 36, 6948-6956 6.7 124
- 632 Double Perovskites in Catalysis, Electrocatalysis, and Photo(electro)catalysis. *Trends in Chemistry*, **2019**, 1, 410-424 14.8 123
- 631 A highly active perovskite electrode for the oxygen reduction reaction below 600 °C. *Angewandte Chemie - International Edition*, **2013**, 52, 14036-40 16.4 123
- 630 Research progress and materials selection guidelines on mixed conducting perovskite-type ceramic membranes for oxygen production. *RSC Advances*, **2011**, 1, 1661 3.7 123
- 629 High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. *Journal of Materials Chemistry*, **2010**, 20, 9619 123
- 628 Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. *Journal of Materials Chemistry A*, **2013**, 1, 6350 13 122
- 627 Boosting Oxygen Evolution Reaction by Creating Both Metal Ion and Lattice-Oxygen Active Sites in a Complex Oxide. *Advanced Materials*, **2020**, 32, e1905025 24 122
- 626 High activity electrocatalysts from metal-organic framework-carbon nanotube templates for the oxygen reduction reaction. *Carbon*, **2015**, 82, 417-424 10.4 121
- 625 Combustion synthesis of high-performance Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> for secondary Li-ion battery. *Ceramics International*, **2009**, 35, 1757-1768 5.1 121
- 624 Calcium-doped lanthanum nickelate layered perovskite and nickel oxide nano-hybrid for highly efficient water oxidation. *Nano Energy*, **2015**, 12, 115-122 17.1 120
- 623 High activity and durability of novel perovskite electrocatalysts for water oxidation. *Materials Horizons*, **2015**, 2, 495-501 14.4 119
- 622 Unusual synergistic effect in layered Ruddlesden-Popper oxide enables ultrafast hydrogen evolution. *Nature Communications*, **2019**, 10, 149 17.4 116
- 621 A novel efficient oxide electrode for electrocatalytic oxygen reduction at 400-600 degrees C. *Chemical Communications*, **2008**, 5791-3 5.8 115
- 620 Efficient stabilization of cubic perovskite SrCoO<sub>3</sub> by B-site low concentration scandium doping combined with sol-gel synthesis. *Journal of Alloys and Compounds*, **2008**, 455, 465-470 5.7 114



619	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> , <b>2019</b> , 12, 2030-2053	35.4	113
618	A new carbon fuel cell with high power output by integrating with in situ catalytic reverse Boudouard reaction. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1265-1268	5.1	112
617	Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 1-22	19.4	110
616	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> , <b>2006</b> , 426, 368-374	5.7	109
615	Novel B-site ordered double perovskite $Ba_2Bi_{0.1}Sc_{0.2}Co_{1.7}O_{6-x}$ for highly efficient oxygen reduction reaction. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 872-875	35.4	108
614	Systematic Study of Oxygen Evolution Activity and Stability on LaSr FeO Perovskite Electrocatalysts in Alkaline Media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11715-11721	9.5	107
613	Co O Nanosheets as Active Material for Hybrid Zn Batteries. <i>Small</i> , <b>2018</b> , 14, e1800225	11	103
612	Systematic investigation on new $SrCo_{1-x}NbyO_{3-x}$ ceramic membranes with high oxygen semi-permeability. <i>Journal of Membrane Science</i> , <b>2008</b> , 323, 436-443	9.6	103
611	Recent Advances in Perovskite Oxides as Electrode Materials for Nonaqueous Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602674	21.8	102
610	Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3048-3054	9.6	102
609	Barium- and strontium-enriched $(Ba_{0.5}Sr_{0.5})_{1+x}Co_{0.8}Fe_{0.2}O_{3-x}$ oxides as high-performance cathodes for intermediate-temperature solid-oxide fuel cells. <i>Acta Materialia</i> , <b>2008</b> , 56, 2687-2698	8.4	101
608	Homologous NiO//NiP nanoarrays grown on nickel foams: a well matched electrode pair with high stability in overall water splitting. <i>Nanoscale</i> , <b>2017</b> , 9, 4409-4418	7.7	100
607	$SrCo_{0.9}Ti_{0.1}O_{3-x}$ As a New Electrocatalyst for the Oxygen Evolution Reaction in Alkaline Electrolyte with Stable Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17663-70	9.5	97
606	Novel $SrSc_{0.2}Co_{0.8}O_{3-x}$ As a cathode material for low temperature solid-oxide fuel cell. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1647-1651	5.1	97
605	Thermal-expansion offset for high-performance fuel cell cathodes. <i>Nature</i> , <b>2021</b> , 591, 246-251	50.4	97
604	Progress and Prospects in Symmetrical Solid Oxide Fuel Cells with Two Identical Electrodes. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500188	21.8	96
603	Properties and performance of A-site deficient $(Ba_{0.5}Sr_{0.5})_{1-x}Co_{0.8}Fe_{0.2}O_{3-x}$ for oxygen permeating membrane. <i>Journal of Membrane Science</i> , <b>2007</b> , 306, 318-328	9.6	96
602	Rationally Designed Hierarchically Structured Tungsten Nitride and Nitrogen-Rich Graphene-Like Carbon Nanocomposite as Efficient Hydrogen Evolution Electrocatalyst. <i>Advanced Science</i> , <b>2018</b> , 5, 1700503	13.6	95

601	High-Performance GeTe-Based Thermoelectrics: from Materials to Devices. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000367	21.8	94
600	BaNb <sub>0.05</sub> Fe <sub>0.95</sub> O <sub>3</sub> as a new oxygen reduction electrocatalyst for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9781	13	93
599	Cobalt Oxide and Cobalt-Graphitic Carbon Core-Shell Based Catalysts with Remarkably High Oxygen Reduction Reaction Activity. <i>Advanced Science</i> , <b>2016</b> , 3, 1600060	13.6	92
598	Facile mechanochemical synthesis of nano SnO <sub>2</sub> /graphene composite from coarse metallic Sn and graphite oxide: an outstanding anode material for lithium-ion batteries. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 4055-63	4.8	90
597	Simultaneous Power Conversion Efficiency and Stability Enhancement of Cs <sub>2</sub> AgBiBr <sub>6</sub> Lead-Free Inorganic Perovskite Solar Cell through Adopting a Multifunctional Dye Interlayer. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001557	15.6	90
596	Scalable synthesis of self-standing sulfur-doped flexible graphene films as recyclable anode materials for low-cost sodium-ion batteries. <i>Carbon</i> , <b>2016</b> , 107, 67-73	10.4	89
595	Facile synthesis of nitrogen-doped carbon nanotubes encapsulating nickel cobalt alloys 3D networks for oxygen evolution reaction in an alkaline solution. <i>Journal of Power Sources</i> , <b>2017</b> , 338, 26-33	8.9	89
594	Trapping sulfur in hierarchically porous, hollow indented carbon spheres: a high-performance cathode for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 9526-9535	13	87
593	Recent Advances in Metal-Organic Framework Derivatives as Oxygen Catalysts for Zinc-Air Batteries. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 272-289	5.6	87
592	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. <i>Matter</i> , <b>2020</b> , 3, 2124-2137	12.7	86
591	A Universal Strategy to Design Superior Water-Splitting Electrocatalysts Based on Fast In Situ Reconstruction of Amorphous Nanofilm Precursors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804333	24	86
590	Synthesis and oxygen permeation study of novel perovskite-type BaBixCo <sub>0.2</sub> Fe <sub>0.8-x</sub> O <sub>3-δ</sub> ceramic membranes. <i>Journal of Membrane Science</i> , <b>2000</b> , 164, 167-176	9.6	85
589	Flexible, Flame-Resistant, and Dendrite-Impermeable Gel-Polymer Electrolyte for Li-O <sub>2</sub> /Air Batteries Workable Under Hurdle Conditions. <i>Small</i> , <b>2018</b> , 14, e1801798	11	83
588	A Comparative Study of Oxygen Reduction Reaction on Bi- and La-Doped SrFeO <sub>3-δ</sub> Perovskite Cathodes. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, B132	3.9	83
587	Facile synthesis of a MoO <sub>2</sub> /Mo <sub>2</sub> C <sub>3</sub> composite and its application as favorable anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 552-560	8.9	82
586	Systematic evaluation of Co-free LnBaFe <sub>2</sub> O <sub>5+δ</sub> (Ln=Lanthanides or Y) oxides towards the application as cathodes for intermediate-temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , <b>2012</b> , 78, 466-474	6.7	80
585	High power-density single-chamber fuel cells operated on methane. <i>Journal of Power Sources</i> , <b>2006</b> , 162, 589-596	8.9	80
584	Activity and Stability of Ruddlesden-Popper-Type La <sub>(n+1)</sub> Ni <sub>(n)</sub> O <sub>(3n+1)</sub> (n=1, 2, 3, and ∞) Electrocatalysts for Oxygen Reduction and Evolution Reactions in Alkaline Media. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 2719-27	4.8	80



583	Highly flexible self-standing film electrode composed of mesoporous rutile TiO <sub>2</sub> /C nanofibers for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 85, 636-643	6.7	78
582	Properties and performance of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> /Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> composite cathode. <i>Journal of Power Sources</i> , <b>2008</b> , 179, 60-68	8.9	78
581	Boosting performance of lanthanide magnetism perovskite for advanced oxidation through lattice doping with catalytically inert element. <i>Chemical Engineering Journal</i> , <b>2019</b> , 355, 721-730	14.7	78
580	An A-site-deficient perovskite offers high activity and stability for low-temperature solid-oxide fuel cells. <i>ChemSusChem</i> , <b>2013</b> , 6, 2249-54	8.3	77
579	Proton-conducting fuel cells operating on hydrogen, ammonia and hydrazine at intermediate temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2637-2642	6.7	77
578	Recent advances in anion-doped metal oxides for catalytic applications. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7280-7300	13	76
577	Highly Defective Layered Double Perovskite Oxide for Efficient Energy Storage via Reversible Pseudocapacitive Oxygen-Anion Intercalation. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702604	21.8	76
576	A universal and facile way for the development of superior bifunctional electrocatalysts for oxygen reduction and evolution reactions utilizing the synergistic effect. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 15533-42	4.8	76
575	Enhancing Electrode Performance by Exsolved Nanoparticles: A Superior Cobalt-Free Perovskite Electrocatalyst for Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 35308-35314	9.5	76
574	Design of Perovskite Oxides as Anion-Intercalation-Type Electrodes for Supercapacitors: Cation Leaching Effect. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23774-83	9.5	75
573	Screening highly active perovskites for hydrogen-evolving reaction via unifying ionic electronegativity descriptor. <i>Nature Communications</i> , <b>2019</b> , 10, 3755	17.4	75
572	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- $\delta$ ). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 11180-9	9.5	75
571	Porous Polyethersulfone-Supported Zeolitic Imidazolate Framework Membranes for Hydrogen Separation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 13264-13270	3.8	75
570	Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> // LaCoO <sub>3</sub> composite cathode for Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> -electrolyte based intermediate-temperature solid-oxide fuel cells. <i>Journal of Power Sources</i> , <b>2007</b> , 168, 330-337	8.9	75
569	Facile Synthesis of a 3D Nanoarchitected Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Electrode for Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1500924	21.8	74
568	One-Pot Synthesis of NiCoS Hollow Spheres via Sequential Ion-Exchange as an Enhanced Oxygen Bifunctional Electrocatalyst in Alkaline Solution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29521-29531	9.5	74
567	Anode-supported ScSZ-electrolyte SOFC with whole cell materials from combined EDTA-triurate complexing synthesis process. <i>Journal of Power Sources</i> , <b>2007</b> , 172, 704-712	8.9	74
566	Fast Desalination by Multilayered Covalent Organic Framework (COF) Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16847-16854	9.5	73

- 565 Structural and oxygen-transport studies of double perovskites  $\text{PrBa}_{1-x}\text{Co}_2\text{O}_{5+x}$  ( $x = 0.00, 0.05,$  and  $0.10$ ) toward their application as superior oxygen reduction electrodes. *Journal of Materials Chemistry A*, **2014**, 2, 20520-20529 13 73
- 564 Advanced Symmetric Solid Oxide Fuel Cell with an Infiltrated  $\text{K}_2\text{NiF}_4$ -Type  $\text{La}_2\text{NiO}_4$  Electrode. *Energy & Fuels*, **2014**, 28, 356-362 4.1 73
- 563 Novel  $\text{CO}_2$ -tolerant ion-transporting ceramic membranes with an external short circuit for oxygen separation at intermediate temperatures. *Energy and Environmental Science*, **2012**, 5, 5257-5264 35.4 73
- 562 Cellulose-assisted combustion synthesis of  $\text{Li}_4\text{Ti}_5\text{O}_{12}$  adopting anatase  $\text{TiO}_2$  solid as raw material with high electrochemical performance. *Journal of Alloys and Compounds*, **2009**, 477, 665-672 5.7 73
- 561 Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. *Chemistry of Materials*, **2011**, 23, 4193-4198 9.6 72
- 560 Mesoporous and Nanostructured  $\text{TiO}$  layer with Ultra-High Loading on Nitrogen-Doped Carbon Foams as Flexible and Free-Standing Electrodes for Lithium-Ion Batteries. *Small*, **2016**, 12, 6724-6734 11 72
- 559 Evaluation of the  $\text{CO}_2$  Poisoning Effect on a Highly Active Cathode  $\text{SrSc}_{0.175}\text{Nb}_{0.025}\text{Co}_{0.8}\text{O}_{(3-x)}$  in the Oxygen Reduction Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 3003-11 9.5 71
- 558 Bifunctionality from Synergy:  $\text{CoP}$  Nanoparticles Embedded in Amorphous  $\text{CoO}_x$  Nanoplates with Heterostructures for Highly Efficient Water Electrolysis. *Advanced Science*, **2018**, 5, 1800514 13.6 71
- 557 A new cathode for solid oxide fuel cells capable of in situ electrochemical regeneration. *Journal of Materials Chemistry*, **2011**, 21, 15343 71
- 556 Ruddlesden-Popper perovskites in electrocatalysis. *Materials Horizons*, **2020**, 7, 2519-2565 14.4 71
- 555 Carbon-based electrocatalysts for sustainable energy applications. *Progress in Materials Science*, **2021**, 116, 100717 42.2 71
- 554 n-type boron phosphide as a highly stable, metal-free, visible-light-active photocatalyst for hydrogen evolution. *Nano Energy*, **2016**, 28, 158-163 17.1 70
- 553 Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. *Advanced Functional Materials*, **2019**, 29, 1904020 15.6 70
- 552 Porous  $\text{TiO}_2(\text{B})/\text{anatase}$  microspheres with hierarchical nano and microstructures for high-performance lithium-ion batteries. *Electrochimica Acta*, **2013**, 97, 386-392 6.7 70
- 551 Electrodeposition and characterization of polypyrrole films on aluminium alloy 6061-T6. *Electrochimica Acta*, **2008**, 53, 4754-4763 6.7 70
- 550 Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metal-Air Batteries. *Energy and Environmental Materials*, **2020**, 3, 121-145 13 69
- 549 Assessment of  $\text{PrBaCo}_2\text{O}_{5+x}\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$  composites prepared by physical mixing as electrodes of solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 7187-7195 8.9 69
- 548 Perovskite  $\text{SrCo}_{0.9}\text{Nb}_{0.1}\text{O}_{3-x}$  as an Anion-Intercalated Electrode Material for Supercapacitors with Ultrahigh Volumetric Energy Density. *Angewandte Chemie - International Edition*, **2016**, 55, 9576-9 16.4 68

547	Stable direct-methane solid oxide fuel cells with calcium-oxide-modified nickel-based anodes operating at reduced temperatures. <i>Applied Energy</i> , <b>2016</b> , 164, 563-571	10.7	68
546	Non-aqueous hybrid supercapacitors fabricated with mesoporous TiO <sub>2</sub> microspheres and activated carbon electrodes with superior performance. <i>Journal of Power Sources</i> , <b>2014</b> , 253, 80-89	8.9	68
545	In situ catalyzed Boudouard reaction of coal char for solid oxide-based carbon fuel cells with improved performance. <i>Applied Energy</i> , <b>2015</b> , 141, 200-208	10.7	68
544	Performance of PrBaCo <sub>2</sub> O <sub>(5+delta)</sub> as a proton-conducting solid-oxide fuel cell cathode. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 3764-72	2.8	68
543	Nano La <sub>0.6</sub> Ca <sub>0.4</sub> Fe <sub>0.8</sub> Ni <sub>0.2</sub> O <sub>3</sub> decorated porous doped ceria as a novel cobalt-free electrode for Symmetrical Solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19526-19535	13	67
542	Designing High-Valence Metal Sites for Electrochemical Water Splitting. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009779	15.6	67
541	Nanostructured Co-Mn containing perovskites for degradation of pollutants: Insight into the activity and stability. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 349, 177-185	12.8	66
540	Advanced perovskite anodes for solid oxide fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 31275-31304	6.7	66
539	A comparative study of Sm <sub>0.5</sub> Sr <sub>0.5</sub> MO <sub>3</sub> (M = Co and Mn) as oxygen reduction electrodes for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 4377-4387	6.7	66
538	High-Quality Ruddlesden-Popper Perovskite Film Formation for High-Performance Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2002582	24	66
537	Searching General Sufficient-and-Necessary Conditions for Ultrafast Hydrogen-Evolving Electrocatalysis. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900704	15.6	65
536	Structural, electrical and electrochemical characterizations of SrNb <sub>0.1</sub> Co <sub>0.9</sub> O <sub>3</sub> as a cathode of solid oxide fuel cells operating below 600 °C. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 1356-1366	6.7	65
535	SrNb <sub>0.1</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> O <sub>3</sub> Perovskite as a Next-Generation Electrocatalyst for Oxygen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3969-3973	3.6	64
534	Electrospinning based fabrication and performance improvement of film electrodes for lithium-ion batteries composed of TiO <sub>2</sub> hollow fibers. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15041		64
533	Evaluation and optimization of Bi <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> perovskites as cathodes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 3179-3186	6.7	64
532	Novel mixed conducting SrSc <sub>0.05</sub> Co <sub>0.95</sub> O <sub>3-δ</sub> ceramic membrane for oxygen separation. <i>AICHE Journal</i> , <b>2007</b> , 53, 3116-3124	3.6	64
531	LSCF Nanopowder from Cellulose-Glycine-Nitrate Process and its Application in Intermediate-Temperature Solid-Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1155-1162	3.8	64
530	Boosting oxygen reduction/evolution reaction activities with layered perovskite catalysts. <i>Chemical Communications</i> , <b>2016</b> , 52, 10739-42	5.8	64

529	Electric power and synthesis gas co-generation from methane with zero waste gas emission. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1792-7	16.4	63
528	Toward Reducing the Operation Temperature of Solid Oxide Fuel Cells: Our Past 15 Years of Efforts in Cathode Development. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 15169-15194	4.1	63
527	Multifunctional Iron Oxide Nanoflake/Graphene Composites Derived from Mechanochemical Synthesis for Enhanced Lithium Storage and Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 14446-55	9.5	62
526	Cobalt-free SrNb <sub>x</sub> Fe <sub>1-x</sub> O <sub>3</sub> (x = 0.05, 0.1 and 0.2) perovskite cathodes for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 298, 209-216	8.9	61
525	Probing CO <sub>2</sub> reaction mechanisms and effects on the SrNb <sub>0.1</sub> Co <sub>0.9-x</sub> Fe <sub>x</sub> O <sub>3</sub> cathodes for solid oxide fuel cells. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 172-173, 52-57	21.8	61
524	High-performance non-enzymatic perovskite sensor for hydrogen peroxide and glucose electrochemical detection. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 244, 482-491	8.5	60
523	New reduced-temperature ceramic fuel cells with dual-ion conducting electrolyte and triple-conducting double perovskite cathode. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13265-13274	13	60
522	Ultrahigh-performance tungsten-doped perovskites for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9854-9859	13	60
521	Rational Design of a Water-Storable Hierarchical Architecture Decorated with Amorphous Barium Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance. <i>Advanced Science</i> , <b>2017</b> , 4, 1700337	13.6	59
520	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> , <b>2020</b> , 32, e1906979	24	59
519	Perovskite materials in energy storage and conversion. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2016</b> , 11, 338-369	1.3	59
518	A surface-modified antiperovskite as an electrocatalyst for water oxidation. <i>Nature Communications</i> , <b>2018</b> , 9, 2326	17.4	59
517	High-performance SrNb <sub>0.1</sub> Co <sub>0.9-x</sub> Fe <sub>x</sub> O <sub>3</sub> perovskite cathodes for low-temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15454-15462	13	58
516	Hierarchical CO(2)-protective shell for highly efficient oxygen reduction reaction. <i>Scientific Reports</i> , <b>2012</b> , 2, 327	4.9	57
515	Toward Enhanced Oxygen Evolution on Perovskite Oxides Synthesized from Different Approaches: A Case Study of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> . <i>Electrochimica Acta</i> , <b>2016</b> , 219, 553-559	6.7	57
514	Synergistically enhanced hydrogen evolution electrocatalysis by in situ exsolution of metallic nanoparticles on perovskites. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13582-13587	13	56
513	Facile Synthesis of Co <sub>9</sub> S <sub>8</sub> Hollow Spheres as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1863-1871	8.3	56
512	Cobalt-free polycrystalline Ba <sub>0.95</sub> La <sub>0.05</sub> FeO <sub>3</sub> thin films as cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 250, 188-195	8.9	55

511	Silver-modified Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> as cathodes for a proton conducting solid-oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8281-8288	6.7	55
510	Rational Design of Ag-Based Catalysts for the Electrochemical CO Reduction to CO: A Review. <i>ChemSusChem</i> , <b>2020</b> , 13, 39-58	8.3	55
509	Compositional engineering of perovskite oxides for highly efficient oxygen reduction reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8562-71	9.5	54
508	High performance of Mn-Co-Ni-O spinel nanofilms sputtered from acetate precursors. <i>Scientific Reports</i> , <b>2015</b> , 5, 10899	4.9	54
507	Oxygen vacancies-rich Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-δ</sub> -decorated Pr <sub>0.5</sub> Ba <sub>0.5</sub> CoO <sub>3-δ</sub> bifunctional catalyst for efficient and long-lasting rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 266, 118656	21.8	54
506	An efficient electrocatalyst as cathode material for solid oxide fuel cells: BaFe <sub>0.95</sub> Sn <sub>0.05</sub> O <sub>3-δ</sub> . <i>Journal of Power Sources</i> , <b>2016</b> , 326, 459-465	8.9	54
505	Perovskite-based proton conducting membranes for hydrogen separation: A review. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 15281-15305	6.7	54
504	Sm <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3-δ</sub> infiltrated cathodes for solid oxide fuel cells with improved oxygen reduction activity and stability. <i>Journal of Power Sources</i> , <b>2012</b> , 216, 208-215	8.9	54
503	Influence of M cations on structural, thermal and electrical properties of new oxygen selective membranes based on SrCo <sub>0.95</sub> M <sub>0.05</sub> O <sub>3-δ</sub> perovskite. <i>Separation and Purification Technology</i> , <b>2009</b> , 67, 304-311	8.3	54
502	Realizing Ultrafast Oxygen Evolution by Introducing Proton Acceptor into Perovskites. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900429	21.8	53
501	A NiFeCu alloy anode catalyst for direct-methane solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 258, 134-141	8.9	53
500	A new Gd-promoted nickel catalyst for methane conversion to syngas and as an anode functional layer in a solid oxide fuel cell. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3855-3862	8.9	53
499	A Green Route to a NaFePOF-Based Cathode for Sodium Ion Batteries of High Rate and Long Cycling Life. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 16280-16287	9.5	52
498	Single-Layered Two-Dimensional Metal-Organic Framework Nanosheets as an in Situ Visual Test Paper for Solvents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28860-28867	9.5	52
497	High-Performance Platinum-Perovskite Composite Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Battery. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903271	21.8	52
496	SrTiO <sub>3</sub> -based thermoelectrics: Progress and challenges. <i>Nano Energy</i> , <b>2020</b> , 78, 105195	17.1	52
495	SrCoTiO perovskites as excellent catalysts for fast degradation of water contaminants in neutral and alkaline solutions. <i>Scientific Reports</i> , <b>2017</b> , 7, 44215	4.9	51
494	A comparative study of different carbon fuels in an electrolyte-supported hybrid direct carbon fuel cell. <i>Applied Energy</i> , <b>2013</b> , 108, 402-409	10.7	51



493	Nickel-based anode with water storage capability to mitigate carbon deposition for direct ethanol solid oxide fuel cells. <i>ChemSusChem</i> , <b>2014</b> , 7, 1719-28	8.3	51
492	Characterization and evaluation of BaCo <sub>0.7</sub> Fe <sub>0.2</sub> Nb <sub>0.1</sub> O <sub>3-δ</sub> as a cathode for proton-conducting solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 484-497	6.7	51
491	Utilizing ion leaching effects for achieving high oxygen-evolving performance on hybrid nanocomposite with self-optimized behaviors. <i>Nature Communications</i> , <b>2020</b> , 11, 3376	17.4	50
490	In situ fabrication of (Sr,La)FeO <sub>4</sub> with CoFe alloy nanoparticles as an independent catalyst layer for direct methane-based solid oxide fuel cells with a nickel cermet anode. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13997-14007	13	50
489	Amorphous V-O-C composite nanofibers electrospun from solution precursors as binder- and conductive additive-free electrodes for supercapacitors with outstanding performance. <i>Nanoscale</i> , <b>2013</b> , 5, 12589-97	7.7	50
488	Boosting the Activity of BaCo <sub>0.4</sub> Fe <sub>0.4</sub> Zr <sub>0.1</sub> Y <sub>0.1</sub> O <sub>3-δ</sub> Perovskite for Oxygen Reduction Reactions at Low-to-Intermediate Temperatures through Tuning B-Site Cation Deficiency. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902384	21.8	49
487	Single-phase perovskite oxide with super-exchange induced atomic-scale synergistic active centers enables ultrafast hydrogen evolution. <i>Nature Communications</i> , <b>2020</b> , 11, 5657	17.4	49
486	Recent Advances in Filler Engineering of Polymer Electrolytes for Solid-State Li-Ion Batteries: A Review. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 9189-9207	4.1	49
485	Computational and experimental analysis of Ba <sub>0.95</sub> La <sub>0.05</sub> FeO <sub>3-δ</sub> as a cathode material for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14154-14163	13	49
484	Methane-fueled SOFC with traditional nickel-based anode by applying Ni/Al <sub>2</sub> O <sub>3</sub> as a dual-functional layer. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 194-197	5.1	49
483	New Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> -Co <sub>3</sub> O <sub>4</sub> composite electrode for IT-SOFCs with improved electrical conductivity and catalytic activity. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 197-199	5.1	49
482	Evaluation of Ba <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3-δ</sub> mixed conductor as a cathode for intermediate-temperature oxygen-ionic solid-oxide fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 5176-5184	8.9	49
481	Hierarchical carbon-coated acanthosphere-like Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> microspheres for high-power lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 314, 18-27	8.9	48
480	Solid-Oxide Fuel Cells: Recent Progress on Advanced Materials for Solid-Oxide Fuel Cells Operating Below 500 °C (Adv. Mater. 48/2017). <i>Advanced Materials</i> , <b>2017</b> , 29, 1770345	24	48
479	Recent advances in single-chamber fuel-cells: Experiment and modeling. <i>Solid State Ionics</i> , <b>2006</b> , 177, 2013-2021	3.3	48
478	Recent Advances in Cs <sub>2</sub> AgBiBr <sub>6</sub> -Based Halide Double Perovskites as Lead-Free and Inorganic Light Absorbers for Perovskite Solar Cells. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 10513-10528	4.1	48
477	An Aurivillius Oxide Based Cathode with Excellent CO <sub>2</sub> Tolerance for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8988-93	16.4	48
476	Enabling High and Stable Electrocatalytic Activity of Iron-Based Perovskite Oxides for Water Splitting by Combined Bulk Doping and Morphology Designing. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801317	4.6	48



475	Recent progress in metal-organic frameworks for lithium-sulfur batteries. <i>Polyhedron</i> , <b>2018</b> , 155, 464-484	2.7	48
474	Self-Recovery Chemistry and Cobalt-Catalyzed Electrochemical Deposition of Cathode for Boosting Performance of Aqueous Zinc-Ion Batteries. <i>IScience</i> , <b>2020</b> , 23, 100943	6.1	47
473	B-Site Cation-Ordered Double-Perovskite Oxide as an Outstanding Electrode Material for Supercapacitive Energy Storage Based on the Anion Intercalation Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9415-9423	9.5	47
472	Surfactant-free self-assembly of reduced graphite oxide-MoO <sub>2</sub> nanobelt composites used as electrode for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 972-981	6.7	47
471	Pt/CNiCoO <sub>2</sub> composites with ultralow Pt loadings as synergistic bifunctional electrocatalysts for oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4516-4524	13	47
470	Surfactant-Assisted Phase-Selective Synthesis of New Cobalt MOFs and Their Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13181-13185	3.6	47
469	A mechanism study of synthesis of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> from TiO <sub>2</sub> anatase. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 505, 367-373	5.7	47
468	B-Site Cation Ordered Double Perovskites as Efficient and Stable Electrocatalysts for Oxygen Evolution Reaction. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5722-5728	4.8	46
467	Rich atomic interfaces between sub-1 nm RuO <sub>x</sub> clusters and porous Co <sub>3</sub> O <sub>4</sub> nanosheets boost oxygen electrocatalysis bifunctionality for advanced Zn-air batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 32, 20-29	19.4	46
466	Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite Ba <sub>2</sub> Bi <sub>0.1</sub> Sc <sub>0.2</sub> Co <sub>1.7</sub> O <sub>6</sub> Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1618-1624	9.6	46
465	Gas Humidification Impact on the Properties and Performance of Perovskite-Type Functional Materials in Proton-Conducting Solid Oxide Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802592	15.6	46
464	Double-layered yolk-shell microspheres with NiCo <sub>2</sub> S <sub>4</sub> -Ni <sub>9</sub> S <sub>8</sub> -C hetero-interfaces as advanced battery-type electrode for hybrid supercapacitors. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125316	14.7	45
463	Water-proof, electrolyte-nonvolatile, and flexible Li-Air batteries via O <sub>2</sub> -Permeable silica-aerogel-reinforced polydimethylsiloxane external membranes. <i>Energy Storage Materials</i> , <b>2020</b> , 27, 297-306	19.4	45
462	Promoting the Efficiency and Stability of CsPbI <sub>3</sub> -Based All-Inorganic Perovskite Solar Cells through a Functional Cu Doping Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23984-23994	9.5	45
461	Tuning layer-structured La <sub>0.6</sub> Sr <sub>1.4</sub> MnO <sub>4</sub> into a promising electrode for intermediate-temperature symmetrical solid oxide fuel cells through surface modification. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10641-10649	13	45
460	Novel Approach for Developing Dual-Phase Ceramic Membranes for Oxygen Separation through Beneficial Phase Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22918-26	9.5	44
459	Impregnated LaCo <sub>0.3</sub> Fe <sub>0.67</sub> Pd <sub>0.03</sub> O <sub>3</sub> as a promising electrocatalyst for symmetrical intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2016</b> , 306, 92-99	8.9	44
458	BaCo <sub>0.6</sub> Fe <sub>0.3</sub> Sn <sub>0.1</sub> O <sub>3</sub> perovskite as a new superior oxygen reduction electrode for intermediate-to-low temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15078	13	44

457	Significant impact of nitric acid treatment on the cathode performance of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> perovskite oxide via combined EDTA-nitric complexing process. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 237-245	8.9	44
456	Oxygen selective membranes based on B-site cation-deficient (Ba <sub>0.5</sub> Sr <sub>0.5</sub> )(Co <sub>0.8</sub> Fe <sub>0.2</sub> ) <sub>y</sub> O <sub>3-<math>\delta</math></sub> perovskite with improved operational stability. <i>Journal of Membrane Science</i> , <b>2008</b> , 318, 182-190	9.6	44
455	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , <b>2021</b> , 17, e2101573	11	44
454	Fine-Tuning Surface Properties of Perovskites via Nanocompositing with Inert Oxide toward Developing Superior Catalysts for Advanced Oxidation. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804654	15.6	44
453	Super-Exchange Interaction Induced Overall Optimization in Ferromagnetic Perovskite Oxides Enables Ultrafast Water Oxidation. <i>Small</i> , <b>2019</b> , 15, e1903120	11	43
452	Tin-doped perovskite mixed conducting membrane for efficient air separation. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9666-9674	13	43
451	A comparative study of SrCo <sub>0.8</sub> Nb <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> and SrCo <sub>0.8</sub> Ta <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> as low-temperature solid oxide fuel cell cathodes: effect of non-geometry factors on the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24064-24070	13	43
450	Phase transition of a cobalt-free perovskite as a high-performance cathode for intermediate-temperature solid oxide fuel cells. <i>ChemSusChem</i> , <b>2012</b> , 5, 2023-31	8.3	43
449	Performance of SrSc <sub>0.2</sub> Co <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> /Sm <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> mixed-conducting composite electrodes for oxygen reduction at intermediate temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9496-9504	6.7	43
448	Nickel catalyst prepared via glycine nitrate process for partial oxidation of methane to syngas. <i>Catalysis Communications</i> , <b>2008</b> , 9, 1418-1425	3.2	43
447	Recent Advances in the Development of Anode Materials for Solid Oxide Fuel Cells Utilizing Liquid Oxygenated Hydrocarbon Fuels: A Mini Review. <i>Energy Technology</i> , <b>2019</b> , 7, 33-44	3.5	43
446	Postsynthesis Growth of CoOOH Nanostructure on SrCo <sub>0.6</sub> Ti <sub>0.4</sub> O <sub>3-<math>\delta</math></sub> Perovskite Surface for Enhanced Degradation of Aqueous Organic Contaminants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 15737-15748	8.3	43
445	Role of silver current collector on the operational stability of selected cobalt-containing oxide electrodes for oxygen reduction reaction. <i>Journal of Power Sources</i> , <b>2012</b> , 210, 146-153	8.9	42
444	Lithium and lanthanum promoted Ni-Al <sub>2</sub> O <sub>3</sub> as an active and highly coking resistant catalyst layer for solid-oxide fuel cells operating on methane. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 90-97	8.9	42
443	Development of a Ni <sub>0.8</sub> Zr <sub>0.2</sub> O <sub>2</sub> catalyst for solid oxide fuel cells operating on ethanol through internal reforming. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6177-6185	8.9	42
442	SrCo <sub>0.85</sub> Fe <sub>0.1</sub> P <sub>0.05</sub> O <sub>3-<math>\delta</math></sub> perovskite as a cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13632	13	41
441	A comprehensive evaluation of a NiAl <sub>2</sub> O <sub>3</sub> catalyst as a functional layer of solid-oxide fuel cell anode. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 402-411	8.9	41
440	Synthesis and assessment of La <sub>0.8</sub> Sr <sub>0.2</sub> Sc <sub>y</sub> Mn <sub>1-y</sub> O <sub>3-<math>\delta</math></sub> as cathodes for solid-oxide fuel cells on scandium-stabilized zirconia electrolyte. <i>Journal of Power Sources</i> , <b>2008</b> , 183, 471-478	8.9	41

439	A high-performance no-chamber fuel cell operated on ethanol flame. <i>Journal of Power Sources</i> , <b>2008</b> , 177, 33-39	8.9	41
438	Influence of high-energy ball milling of precursor on the morphology and electrochemical performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> . Ball-milling time. <i>Solid State Ionics</i> , <b>2008</b> , 179, 946-950	3.3	41
437	Spherical Ruthenium Disulfide-Sulfur-Doped Graphene Composite as an Efficient Hydrogen Evolution Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34098-34107	9.5	41
436	Cobalt-free SrFe <sub>0.9</sub> Ti <sub>0.1</sub> O <sub>3</sub> as a high-performance electrode material for oxygen reduction reaction on doped ceria electrolyte with favorable CO <sub>2</sub> tolerance. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 2531-2539	6	40
435	Earth-Abundant Silicon for Facilitating Water Oxidation over Iron-Based Perovskite Electrocatalyst. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701693	4.6	40
434	3D core-shell architecture from infiltration and beneficial reactive sintering as highly efficient and thermally stable oxygen reduction electrode. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1284-1293	13	40
433	Comparative Studies of SrCo <sub>1-x</sub> TaxO <sub>3</sub> (x=0.05-0.4) Oxides as Cathodes for Low-Temperature Solid-Oxide Fuel Cells. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1331-1338	4.3	40
432	Further performance improvement of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> perovskite membranes for air separation. <i>Ceramics International</i> , <b>2009</b> , 35, 2455-2461	5.1	40
431	Effect of Ba nonstoichiometry on the phase structure, sintering, electrical conductivity and phase stability of Ba <sub>1-x</sub> Ce <sub>0.4</sub> Zr <sub>0.4</sub> Y <sub>0.2</sub> O <sub>3</sub> (0 ≤ x ≤ 0.20) proton conductors. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8450-8460	6.7	40
430	Coking-free direct-methanol-flame fuel cell with traditional nickel-bermet anode. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7971-7981	6.7	40
429	Boosting the oxygen evolution reaction activity of a perovskite through introducing multi-element synergy and building an ordered structure. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9924-9932	13	39
428	Assessment of nickel cermets and La <sub>0.8</sub> Sr <sub>0.2</sub> Sc <sub>0.2</sub> Mn <sub>0.8</sub> O <sub>3</sub> as solid-oxide fuel cell anodes operating on carbon monoxide fuel. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 1333-1343	8.9	39
427	Cobalt-free Ba <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>0.8</sub> Cu <sub>0.1</sub> Ti <sub>0.1</sub> O <sub>3</sub> as a bi-functional electrode material for solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 298, 184-192	8.9	38
426	Monoclinic SrIrO <sub>3</sub> : An Easily Synthesized Conductive Perovskite Oxide with Outstanding Performance for Overall Water Splitting in Alkaline Solution. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4509-4517	9.6	38
425	In situ formation of a 3D core-shell and triple-conducting oxygen reduction reaction electrode for proton-conducting SOFCs. <i>Journal of Power Sources</i> , <b>2018</b> , 385, 76-83	8.9	38
424	H <sub>2</sub> S poisoning effect and ways to improve sulfur tolerance of nickel cermet anodes operating on carbonaceous fuels. <i>Applied Energy</i> , <b>2016</b> , 179, 765-777	10.7	38
423	Aluminum oxide as a dual-functional modifier of Ni-based anodes of solid oxide fuel cells for operation on simulated biogas. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 787-793	8.9	38
422	Nanoscaled Sm-doped CeO <sub>2</sub> buffer layers for intermediate-temperature solid oxide fuel cells. <i>Electrochemistry Communications</i> , <b>2013</b> , 35, 131-134	5.1	38

4 <sup>21</sup>	Perovskite SrCo <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3</sub> as an Anion-Intercalated Electrode Material for Supercapacitors with Ultrahigh Volumetric Energy Density. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9728-9731	3.6	38
4 <sup>20</sup>	Highly Active Carbon/γ-MnO <sub>2</sub> Hybrid Oxygen Reduction Reaction Electrocatalysts. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1760-1767	4.3	37
4 <sup>19</sup>	A strongly coupled CoS <sub>2</sub> / reduced graphene oxide nanostructure as an anode material for efficient sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 726, 394-402	5.7	37
4 <sup>18</sup>	Electrolyte materials for intermediate-temperature solid oxide fuel cells. <i>Progress in Natural Science: Materials International</i> , <b>2020</b> , 30, 764-774	3.6	37
4 <sup>17</sup>	Cobalt-Free Perovskite Cathodes for Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3549-3569	4.3	36
4 <sup>16</sup>	A top-down strategy for the synthesis of mesoporous Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> as a cathode precursor for buffer layer-free deposition on stabilized zirconia electrolyte with a superior electrochemical performance. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 1024-1033	8.9	36
4 <sup>15</sup>	Anchoring perovskite LaMnO <sub>3</sub> nanoparticles on biomass-derived N, P co-doped porous carbon for efficient oxygen reduction. <i>Electrochimica Acta</i> , <b>2018</b> , 274, 40-48	6.7	36
4 <sup>14</sup>	A novel approach for substantially improving the sinterability of BaZr <sub>0.4</sub> Ce <sub>0.4</sub> Y <sub>0.2</sub> O <sub>3</sub> electrolyte for fuel cells by impregnating the green membrane with zinc nitrate as a sintering aid. <i>Journal of Membrane Science</i> , <b>2013</b> , 437, 189-195	9.6	36
4 <sup>13</sup>	A comparison study of catalytic oxidation and acid oxidation to prepare carbon nanotubes for filling with Ru nanoparticles. <i>Carbon</i> , <b>2011</b> , 49, 2022-2032	10.4	36
4 <sup>12</sup>	A Function-Separated Design of Electrode for Realizing High-Performance Hybrid Zinc Battery. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002992	21.8	36
4 <sup>11</sup>	Evaluation of SrSc <sub>0.175</sub> Nb <sub>0.025</sub> Co <sub>0.8</sub> O <sub>3</sub> -perovskite as a cathode for proton-conducting solid oxide fuel cells: The possibility of in situ creating protonic conductivity and electrochemical performance. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 559-565	6.7	36
4 <sup>10</sup>	Enhanced electrochemical performance, water storage capability and coking resistance of a Ni+BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.1</sub> Yb <sub>0.1</sub> O <sub>3</sub> anode for solid oxide fuel cells operating on ethanol. <i>Chemical Engineering Science</i> , <b>2015</b> , 126, 22-31	4.4	35
4 <sup>09</sup>	Two facile routes to an AB <sub>2</sub> Cu-MOF composite with improved hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 753, 228-233	5.7	35
4 <sup>08</sup>	Understanding the doping effect toward the design of CO <sub>2</sub> -tolerant perovskite membranes with enhanced oxygen permeability. <i>Journal of Membrane Science</i> , <b>2016</b> , 519, 11-21	9.6	34
4 <sup>07</sup>	Improved conductivity of a new Co(II)-MOF by assembled acetylene black for efficient hydrogen evolution reaction. <i>CrystEngComm</i> , <b>2018</b> , 20, 4804-4809	3.3	34
4 <sup>06</sup>	Cobalt-free niobium-doped barium ferrite as potential materials of dense ceramic membranes for oxygen separation. <i>Journal of Membrane Science</i> , <b>2014</b> , 455, 75-82	9.6	34
4 <sup>05</sup>	Combustion-synthesized Ru/Al <sub>2</sub> O <sub>3</sub> composites as anode catalyst layer of a solid oxide fuel cell operating on methane. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 755-764	6.7	34
4 <sup>04</sup>	Facile autocombustion synthesis of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> (LSCF) perovskite via a modified complexing sol-gel process with NH <sub>4</sub> NO <sub>3</sub> as combustion aid. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 450, 338-347	5.7	34

403	Ethanol Steam Reforming over Pt Catalysts Supported on $\text{CeZr}_{1-x}\text{O}_2$ Prepared via a Glycine Nitrate Process. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 1873-1879	4.1	34
402	Self-Assembled Ruddlesden-Popper/Perovskite Hybrid with Lattice-Oxygen Activation as a Superior Oxygen Evolution Electrocatalyst. <i>Small</i> , <b>2020</b> , 16, e2001204	11	34
401	Chlorine-anion doping induced multi-factor optimization in perovskites for boosting intrinsic oxygen evolution. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 52, 115-120	12	34
400	Nano-zero-valent iron and MnO selective deposition on BiVO decahedron superstructures for promoted spatial charge separation and exceptional catalytic activity in visible-light-driven photocatalysis-Fenton coupling system. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 377, 330-340	12.8	33
399	Ultralong Cycle Life Li-O Battery Enabled by a MOF-Derived Ruthenium-Carbon Composite Catalyst with a Durable Regenerative Surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20091-20097	9.5	33
398	Structurally modified coal char as a fuel for solid oxide-based carbon fuel cells with improved performance. <i>Journal of Power Sources</i> , <b>2015</b> , 288, 106-114	8.9	33
397	Influence of crystal structure on the electrochemical performance of A-site-deficient $\text{Sr}_{1-x}\text{Nb}_{0.1}\text{Co}_{0.9}\text{O}_{3-x}$ perovskite cathodes. <i>RSC Advances</i> , <b>2014</b> , 4, 40865-40872	3.7	33
396	The influence of impurity ions on the permeation and oxygen reduction properties of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-x}$ perovskite. <i>Journal of Membrane Science</i> , <b>2014</b> , 449, 86-96	9.6	33
395	Coke formation and performance of an intermediate-temperature solid oxide fuel cell operating on dimethyl ether fuel. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 1967-1974	8.9	33
394	Nitrogen-doped $\text{TiO}_2$ microspheres with hierarchical micro/nanostructures and rich dual-phase junctions for enhanced photocatalytic activity. <i>RSC Advances</i> , <b>2016</b> , 6, 40923-40931	3.7	33
393	Pyrite-type ruthenium disulfide with tunable disorder and defects enables ultra-efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14222-14232	13	32
392	In Situ Tetraethoxysilane-Templated Porous $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-x}$ Perovskite for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , <b>2015</b> , 2, 200-203	4.3	32
391	High-performance metal-organic framework-perovskite hybrid as an important component of the air-electrode for rechargeable Zn-Air battery. <i>Journal of Power Sources</i> , <b>2020</b> , 468, 228377	8.9	32
390	A smart lithiophilic polymer filler in gel polymer electrolyte enables stable and dendrite-free Li metal anode. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9733-9742	13	32
389	Perovskite oxide/carbon nanotube hybrid bifunctional electrocatalysts for overall water splitting. <i>Electrochimica Acta</i> , <b>2018</b> , 286, 47-54	6.7	32
388	A new nickel-eria composite for direct-methane solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 3741-3749	6.7	32
387	Optimization of a direct carbon fuel cell for operation below $700^\circ\text{C}$ . <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 5367-5374	6.7	32
386	Synthesis of Hierarchical $\text{TiO}_2/\text{N}_4$ Hybrid Microspheres with Enhanced Photocatalytic and Photovoltaic Activities by Maximizing the Synergistic Effect. <i>ChemPhotoChem</i> , <b>2017</b> , 1, 35-45	3.3	32



- 385 A carbon-air battery for high power generation. *Angewandte Chemie - International Edition*, **2015**, 54, 3722-5 16.4 32
- 384 Pd-YSZ composite cathodes for oxygen reduction reaction of intermediate-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 7670-7676 6.7 32
- 383 Initialization of a methane-fueled single-chamber solid-oxide fuel cell with NiO+SDC anode and BSCF+SDC cathode. *Journal of Power Sources*, **2008**, 179, 640-648 8.9 32
- 382 Hierarchical Porous Yolk-Shell Carbon Nanosphere for High-Performance Lithium-Sulfur Batteries. *Particle and Particle Systems Characterization*, **2017**, 34, 1600281 3.1 31
- 381 An Electronegative-Bifunctional coating layer: simultaneous regulation of polysulfide and Li-ion adsorption sites for long-cycling and H<sub>2</sub>endrite-free Li-S batteries. *Journal of Materials Chemistry A*, **2019**, 7, 22463-22474 13 31
- 380 Ceramic Lithium Ion Conductor to Solve the Anode Coking Problem of Practical Solid Oxide Fuel Cells. *ChemSusChem*, **2015**, 8, 2978-86 8.3 31
- 379 Efficient and CO<sub>2</sub>-tolerant oxygen transport membranes prepared from high-valence B-site substituted cobalt-free SrFeO<sub>3</sub>. *Journal of Membrane Science*, **2015**, 495, 187-197 9.6 31
- 378 A Porous Nano-Micro-Composite as a High-Performance Bi-Functional Air Electrode with Remarkable Stability for Rechargeable Zinc-Air Batteries. *Nano-Micro Letters*, **2020**, 12, 130 19.5 31
- 377 Renewable acetic acid in combination with solid oxide fuel cells for sustainable clean electric power generation. *Journal of Materials Chemistry A*, **2013**, 1, 5620 13 31
- 376 Catalytic decomposition of hydrous hydrazine to hydrogen over oxide catalysts at ambient conditions for PEMFCs. *International Journal of Hydrogen Energy*, **2012**, 37, 1133-1139 6.7 31
- 375 Physically mixed LiLaNi<sub>1-x</sub>Al<sub>2x</sub>O<sub>3</sub> 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 6.7 31
- 374 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 14.7 31
- 373 Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. *Chemical Society Reviews*, **2021**, 50, 10116-10211 58.5 31
- 372 3D ordered macroporous SmCoO<sub>3</sub> perovskite for highly active and selective hydrogen peroxide detection. *Electrochimica Acta*, **2018**, 260, 372-383 6.7 31
- 371 Co-generation of electricity and syngas on proton-conducting solid oxide fuel cell with a perovskite layer as a precursor of a highly efficient reforming catalyst. *Journal of Power Sources*, **2017**, 348, 9-15 8.9 30
- 370 Realizing fourfold enhancement in conductivity of perovskite Li<sub>0.33</sub>La<sub>0.557</sub>TiO<sub>3</sub> electrolyte membrane via a Sr and Ta co-doping strategy. *Journal of Membrane Science*, **2019**, 582, 194-202 9.6 30
- 369 Infiltrated NiCo Alloy Nanoparticle Decorated Perovskite Oxide: A Highly Active, Stable, and Antisintering Anode for Direct-Ammonia Solid Oxide Fuel Cells. *Small*, **2020**, 16, e2001859 11 30
- 368 Molybdenum and Niobium Codoped B-Site-Ordered Double Perovskite Catalyst for Efficient Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2018**, 10, 16939-16942 9.5 30



367	Effect of firing temperature on the microstructure and performance of PrBaCo <sub>2</sub> O <sub>5+<math>\delta</math></sub> cathodes on Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> electrolytes fabricated by spray deposition-firing processes. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4667-4675	8.9	30
366	A dense oxygen separation membrane with a layered morphologic structure. <i>Journal of Membrane Science</i> , <b>2007</b> , 300, 182-190	9.6	30
365	Anodes for Carbon-Fueled Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , <b>2016</b> , 3, 193-203	4.3	30
364	Nickel-Iron Alloy Nanoparticle-Decorated K <sub>2</sub> NiF <sub>4</sub> -Type Oxide as an Efficient and Sulfur-Tolerant Anode for Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2378-2384	4.3	29
363	Core-shell structured Li <sub>0.33</sub> La <sub>0.56</sub> TiO <sub>3</sub> perovskite as a highly efficient and sulfur-tolerant anode for solid-oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8545-8551	13	29
362	Direct growth of ordered N-doped carbon nanotube arrays on carbon fiber cloth as a free-standing and binder-free air electrode for flexible quasi-solid-state rechargeable Zn-Air batteries <b>2020</b> , 2, 461-471		29
361	A new symmetric solid oxide fuel cell with a samaria-doped ceria framework and a silver-infiltrated electrocatalyst. <i>Journal of Power Sources</i> , <b>2012</b> , 197, 57-64	8.9	29
360	Composition and microstructure optimization and operation stability of barium deficient Ba <sub>1-x</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> Nb <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> perovskite oxide electrodes. <i>Electrochimica Acta</i> , <b>2013</b> , 103, 23-31	6.7	29
359	Wet powder spraying fabrication and performance optimization of IT-SOFCs with thin-film ScSZ electrolyte. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 1125-1132	6.7	29
358	Fabrication and evolution of catalyst-coated membranes by direct spray deposition of catalyst ink onto Nafion membrane at high temperature. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2921-2925	6.7	29
357	Fabrication of an anode-supported yttria-stabilized zirconia thin film for solid-oxide fuel cells via wet powder spraying. <i>Journal of Power Sources</i> , <b>2008</b> , 184, 229-237	8.9	29
356	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102089	15.6	29
355	Smart Construction of an Intimate Lithium   Garnet Interface for All-Solid-State Batteries by Tuning the Tension of Molten Lithium. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101556	15.6	29
354	Multi-active sites derived from a single/double perovskite hybrid for highly efficient water oxidation. <i>Electrochimica Acta</i> , <b>2019</b> , 299, 926-932	6.7	29
353	Open hollow CoPt clusters embedded in carbon nanoflake arrays for highly efficient alkaline water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20214-20223	13	29
352	Modified template synthesis and electrochemical performance of a Co <sub>3</sub> O <sub>4</sub> /mesoporous cathode for lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16132-16141	13	28
351	Green fabrication of composite cathode with attractive performance for solid oxide fuel cells through facile inkjet printing. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 465-471	8.9	28
350	A Self-Assembled Hetero-Structured Inverse-Spinel and Anti-Perovskite Nanocomposite for Ultrafast Water Oxidation. <i>Small</i> , <b>2020</b> , 16, e2002089	11	28

- 349 Controlled deposition and utilization of carbon on Ni-YSZ anodes of SOFCs operating on dry methane. *Energy*, **2016**, 113, 432-443 7.9 28
- 348 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<sup>13</sup> 24849<sup>28</sup>
- 347 Preparation and re-examination of Li<sub>4</sub>Ti<sub>4.85</sub>Al<sub>0.15</sub>O<sub>12</sub> as anode material of lithium-ion battery. *International Journal of Energy Research*, **2011**, 35, 68-77 4.5 28
- 346 Cobalt-site cerium doped Sm<sub>x</sub>Sr<sub>1-x</sub>CoO<sub>3</sub> oxides as potential cathode materials for solid-oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 3386-3393 8.9 28
- 345 High performance electrode for electrochemical oxygen generator cell based on solid electrolyte ion transport membrane. *Electrochimica Acta*, **2007**, 52, 6297-6303 6.7 28
- 344 Methane-fueled IT-SOFCs with facile in situ inorganic templating synthesized mesoporous Sm<sub>0.2</sub>Ce<sub>0.8</sub>O<sub>1.9</sub> as catalytic layer. *Journal of Power Sources*, **2007**, 170, 251-258 8.9 28
- 343 Robust ion-transporting ceramic membrane with an internal short circuit for oxygen production. *Journal of Materials Chemistry A*, **2013**, 1, 9150 13 27
- 342 Effect of a reducing agent for silver on the electrochemical activity of an Ag/Ba<sub>0.5</sub>Sr<sub>0.5</sub>Co<sub>0.8</sub>Fe<sub>0.2</sub>O<sub>3</sub> electrode prepared by electroless deposition technique. *Journal of Power Sources*, **2009**, 186, 244-251 8.9 27
- 341 Emerging Strategies for Developing High-Performance Perovskite-Based Materials for Electrochemical Water Splitting. *Energy & Fuels*, **2020**, 34, 10547-10567 4.1 27
- 340 A hierarchical Zn<sub>2</sub>Mo<sub>3</sub>O<sub>8</sub> nanodots-porous carbon composite as a superior anode for lithium-ion batteries. *Chemical Communications*, **2016**, 52, 9402-5 5.8 26
- 339 Multi scale and physics models for intermediate and low temperatures H<sup>+</sup>-solid oxide fuel cells with H<sup>+</sup>/e<sup>-</sup>/O<sub>2</sub> mixed conducting properties: Part A, generalized percolation theory for LSCF-SDC-BZCY 3-component cathodes. *Journal of Power Sources*, **2016**, 303, 305-316 8.9 26
- 338 Solid lithium electrolyte-Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> composites as anodes of lithium-ion batteries showing high-rate performance. *Journal of Power Sources*, **2013**, 231, 177-185 8.9 26
- 337 Heterostructured electrode with concentration gradient shell for highly efficient oxygen reduction at low temperature. *Scientific Reports*, **2011**, 1, 155 4.9 26
- 336 Effect of nickel content and preparation method on the performance of Ni-Al<sub>2</sub>O<sub>3</sub> towards the applications in solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 10958-10967 6.7 26
- 335 Comparative study of doped ceria thin-film electrolytes prepared by wet powder spraying with powder synthesized via two techniques. *Journal of Power Sources*, **2010**, 195, 393-401 8.9 26
- 334 Hydrazine as efficient fuel for low-temperature SOFC through ex-situ catalytic decomposition with high selectivity toward hydrogen. *International Journal of Hydrogen Energy*, **2010**, 35, 7919-7924 6.7 26
- 333 Nickel-doped BaCo<sub>0.4</sub>Fe<sub>0.4</sub>Zr<sub>0.1</sub>Y<sub>0.1</sub>O<sub>3-δ</sub> as a new high-performance cathode for both oxygen-ion and proton conducting fuel cells. *Chemical Engineering Journal*, **2021**, 420, 127717 14.7 26
- 332 Highly CO-Tolerant Cathode for Intermediate-Temperature Solid Oxide Fuel Cells: Samarium-Doped Ceria-Protected SrCoTaO Hybrid. *ACS Applied Materials & Interfaces*, **2017**, 9, 23262-23333<sup>25</sup> 23333<sup>25</sup>

331	Rational design of strontium antimony co-doped Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> electrolyte membrane for solid-state lithium batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 794, 347-357	5.7	25
330	Highly Active and Stable Cobalt-Free Hafnium-doped SrFe <sub>0.9</sub> Hf <sub>0.1</sub> O <sub>3</sub> Perovskite Cathode for Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2134-2142	6.1	25
329	Optimal synthesis and new understanding of P2-type Na <sub>2/3</sub> Mn <sub>1/2</sub> Fe <sub>1/4</sub> Co <sub>1/4</sub> O <sub>2</sub> as an advanced cathode material in sodium-ion batteries with improved cycle stability. <i>Ceramics International</i> , <b>2018</b> , 44, 5184-5192	5.1	25
328	Resistance of water transport in carbon nanotube membranes. <i>Nanoscale</i> , <b>2018</b> , 10, 13242-13249	7.7	25
327	A Highly Stable and Active Hybrid Cathode for Low-Temperature Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1627-1631	4.3	25
326	Electrophoretic deposition of YSZ thin-film electrolyte for SOFCs utilizing electrostatic-steric stabilized suspensions obtained via high energy ball milling. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 9195-9204	6.7	25
325	Improving single-chamber performance of an anode-supported SOFC by impregnating anode with active nickel catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8171-8176	6.7	25
324	Solid-oxide fuel cell operated on in situ catalytic decomposition products of liquid hydrazine. <i>Journal of Power Sources</i> , <b>2008</b> , 177, 323-329	8.9	25
323	A New Pd Doped Proton Conducting Perovskite Oxide with Multiple Functionalities for Efficient and Stable Power Generation from Ammonia at Reduced Temperatures. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003916	21.8	25
322	Stable Hierarchical Bimetal/Organic Nanostructures as High Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4271-4275	3.6	25
321	A cobalt and nickel co-modified layered P2-Na <sub>2/3</sub> Mn <sub>1/2</sub> Fe <sub>1/2</sub> O <sub>2</sub> with excellent cycle stability for high-energy density sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 383-392	5.7	25
320	Fast operando spectroscopy tracking in situ generation of rich defects in silver nanocrystals for highly selective electrochemical CO reduction. <i>Nature Communications</i> , <b>2021</b> , 12, 660	17.4	25
319	Improved performance of a symmetrical solid oxide fuel cell by swapping the roles of doped ceria and La <sub>0.6</sub> Sr <sub>1.4</sub> MnO <sub>4+δ</sub> in the electrode. <i>Journal of Power Sources</i> , <b>2017</b> , 342, 644-651	8.9	24
318	Boosting oxygen evolution reaction by activation of lattice-oxygen sites in layered Ruddlesden-Popper oxide. <i>EcoMat</i> , <b>2020</b> , 2, e12021	9.4	24
317	Efficient Wastewater Remediation Enabled by Self-Assembled Perovskite Oxide Heterostructures with Multiple Reaction Pathways. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6033-6042	8.3	24
316	Enhancing the triiodide reduction activity of a perovskite-based electrocatalyst for dye-sensitized solar cells through exsolved silver nanoparticles. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17489-17497 <sup>13</sup>		24
315	Fructose-Derived Hollow Carbon Nanospheres with Ultrathin and Ordered Mesoporous Shells as Cathodes in Lithium/Sulfur Batteries for Fast Energy Storage. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1700081	5.9	24
314	LiNi <sub>0.29</sub> Co <sub>0.33</sub> Mn <sub>0.38</sub> O <sub>2</sub> 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. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 691, 206-214	5.7	24

313	Coking suppression in solid oxide fuel cells operating on ethanol by applying pyridine as fuel additive. <i>Journal of Power Sources</i> , <b>2014</b> , 265, 20-29	8.9	24
312	Evaluation of mixed-conducting lanthanum-strontium-cobaltite ceramic membrane for oxygen separation. <i>AIChE Journal</i> , <b>2009</b> , 55, 2603-2613	3.6	24
311	A comparative study of La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> and La <sub>0.8</sub> Sr <sub>0.2</sub> Sc <sub>0.1</sub> Mn <sub>0.9</sub> O <sub>3</sub> as cathode materials of single-chamber SOFCs operating on a methane/air mixture. <i>Journal of Power Sources</i> , <b>2009</b> , 191, 225-232	8.9	24
310	Effect of Sm <sup>3+</sup> content on the properties and electrochemical performance of Sm <sub>x</sub> Sr <sub>1-x</sub> CoO <sub>3-δ</sub> (0.2 ≤ x ≤ 0.8) as an oxygen reduction electrodes on doped ceria electrolytes. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2870-2876	6.7	24
309	A novel way to improve performance of proton-conducting solid-oxide fuel cells through enhanced chemical interaction of anode components. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 1683-1691	6.7	24
308	Advances in Zeolite Imidazolate Frameworks (ZIFs) Derived Bifunctional Oxygen Electrocatalysts and Their Application in Zinc-Air Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100514	21.8	24
307	Electrochemical performance and effect of moisture on Ba <sub>0.5</sub> Sr <sub>0.5</sub> Sc <sub>0.175</sub> Nb <sub>0.025</sub> Co <sub>0.8</sub> O <sub>3-δ</sub> oxide as a promising electrode for proton-conducting solid oxide fuel cells. <i>Applied Energy</i> , <b>2019</b> , 238, 344-350	10.7	23
306	From scheelite BaMoO <sub>4</sub> to perovskite BaMoO <sub>3</sub> : Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. <i>Composites Part B: Engineering</i> , <b>2020</b> , 198, 108214	10	23
305	Facile synthesis of porous MgO@LaO <sub>n</sub> O <sub>m</sub> nanocubes implanted firmly on in situ formed carbon paper and their lithium storage properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9126	13	23
304	Ethylene glycol as a new sustainable fuel for solid oxide fuel cells with conventional nickel-based anodes. <i>Applied Energy</i> , <b>2015</b> , 148, 1-9	10.7	23
303	Interlayer-free electrodes for IT-SOFCs by applying Co <sub>3</sub> O <sub>4</sub> as sintering aid. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 11946-11954	6.7	23
302	Layered perovskite Y <sub>1-x</sub> CaxBaCo <sub>4</sub> O <sub>7+δ</sub> as ceramic membranes for oxygen separation. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 492, 552-558	5.7	23
301	A High Electrochemical Performance Proton Conductor Electrolyte with CO <sub>2</sub> Tolerance. <i>Chinese Journal of Catalysis</i> , <b>2009</b> , 30, 479-481	11.3	23
300	Significant impact of the current collection material and method on the performance of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> electrodes in solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5511-5519	8.9	23
299	Double-site yttria-doped Sr <sub>1-x</sub> YxCo <sub>1-y</sub> YyO <sub>3-δ</sub> perovskite oxides as oxygen semi-permeable membranes. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 474, 477-483	5.7	23
298	Electrochemical Performance of SrSc <sub>0.2</sub> Co <sub>0.8</sub> O <sub>3-δ</sub> Cathode on Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> Electrolyte for Low Temperature SOFCs. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, B884	3.9	23
297	High performance porous iron oxide-carbon nanotube nanocomposite as an anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 212, 179-186	6.7	23
296	Rational Design of Metal Oxide Based Cathodes for Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800172	21.8	23

295	Recent Progress on Structurally Ordered Materials for Electrocatalysis. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101937	21.8	23
294	Tin and iron co-doping strategy for developing active and stable oxygen reduction catalysts from SrCoO <sub>3</sub> for operating below 800°C. <i>Journal of Power Sources</i> , <b>2015</b> , 294, 339-346	8.9	22
293	Evaluation of pulsed laser deposited SrNb <sub>0.1</sub> Co <sub>0.9</sub> O <sub>3</sub> thin films as promising cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 295, 117-124	8.9	22
292	Oriented PrBaCo <sub>2</sub> O <sub>5</sub> + thin films for solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 278, 623-629	8.9	22
291	A CO <sub>2</sub> -tolerant SrCo <sub>0.8</sub> Fe <sub>0.15</sub> Zr <sub>0.05</sub> O <sub>3</sub> cathode for proton-conducting solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11292-11301	13	22
290	Fuel cells that operate at 300°C to 500°C. <i>Science</i> , <b>2020</b> , 369, 138-139	33.3	22
289	Proton-Conducting La-Doped Ceria-Based Internal Reforming Layer for Direct Methane Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33758-33765	9.5	22
288	A novel Ba <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3</sub> cathode for protonic solid-oxide fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4700-4703	8.9	22
287	A composite oxygen-reduction electrode composed of SrSc <sub>0.2</sub> Co <sub>0.8</sub> O <sub>3</sub> perovskite and Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> for an intermediate-temperature solid-oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 5601-5610	6.7	22
286	Low temperature synthesis of perovskite oxide using the adsorption properties of cellulose. <i>Journal of Materials Science</i> , <b>2000</b> , 35, 5639-5644	4.3	22
285	Ruddlesden-Popper Perovskite Oxides for Photocatalysis-Based Water Splitting and Wastewater Treatment. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 9208-9221	4.1	22
284	Stabilizing Atomically Dispersed Catalytic Sites on Tellurium Nanosheets with Strong Metal-Support Interaction Boosts Photocatalysis. <i>Small</i> , <b>2020</b> , 16, e2002356	11	22
283	Water-stable MOFs-based core-shell nanostructures for advanced oxidation towards environmental remediation. <i>Composites Part B: Engineering</i> , <b>2020</b> , 192, 107985	10	22
282	Recent advances and perspectives of fluorite and perovskite-based dual-ion conducting solid oxide fuel cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 57, 406-427	12	22
281	Unlocking the Potential of Mechanochemical Coupling: Boosting the Oxygen Evolution Reaction by Mating Proton Acceptors with Electron Donors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008077	15.6	22
280	Rational Design of Superior Electrocatalysts for Water Oxidation: Crystalline or Amorphous Structure?. <i>Small Science</i> , <b>2021</b> , 1, 2100030		22
279	Significantly Improving the Durability of Single-Chamber Solid Oxide Fuel Cells: A Highly Active CO <sub>2</sub> -Resistant Perovskite Cathode. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1337-1343	6.1	21
278	Mixed protonic-electronic conducting perovskite oxide as a robust oxygen evolution reaction catalyst. <i>Electrochimica Acta</i> , <b>2018</b> , 282, 324-330	6.7	21



- 277 Enhanced sulfur tolerance of nickel-based anodes for oxygen-ion conducting solid oxide fuel cells by incorporating a secondary water storing phase. *Environmental Science & Technology*, **2014**, 48, 12427-34 10.3 21
- 276 Insight into an unusual lanthanum effect on the oxygen reduction reaction activity of Ruddlesden-Popper-type cation-nonstoichiometric  $\text{La}_2\text{NiO}_{4+x}$  ( $x = 0.1$ ) oxides. *Journal of Materials Chemistry A*, **2015**, 3, 6501-6508 13 21
- 275 Hierarchical porous cobalt-free perovskite electrode for highly efficient oxygen reduction. *Journal of Materials Chemistry*, **2012**, 22, 16214 21
- 274 Direct-methane solid oxide fuel cells with an in situ formed NiBe alloy composite catalyst layer over Ni $\lambda$ SZ anodes. *Renewable Energy*, **2020**, 150, 334-341 8.1 21
- 273 Recent Advances in the Understanding of the Surface Reconstruction of Oxygen Evolution Electrocatalysts and Materials Development. *Electrochemical Energy Reviews*, **2021**, 4, 566-600 29.3 21
- 272 Recent development on perovskite-type cathode materials based on SrCoO<sub>3</sub>  $\lambda$ parent oxide for intermediate-temperature solid oxide fuel cells. *Asia-Pacific Journal of Chemical Engineering*, **2016**, 11, 370-381 1.3 21
- 271 Cadmium sulfide quantum dots/dodecahedral polyoxometalates/oxygen-doped mesoporous graphite carbon nitride with Z-scheme and Type-II as tandem heterojunctions for boosting visible-light-driven photocatalytic performance. *Journal of Colloid and Interface Science*, **2021**, 582, 752-763 9.3 21
- 270 A high performance composite cathode with enhanced CO<sub>2</sub> resistance for low and intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2018**, 405, 124-131 8.9 21
- 269 Silver-doped strontium niobium cobaltite as a new perovskite-type ceramic membrane for oxygen separation. *Journal of Membrane Science*, **2018**, 563, 617-624 9.6 21
- 268 Fundamental Understanding and Application of Ba<sub>0.5</sub>Sr<sub>0.5</sub>Co<sub>0.8</sub>Fe<sub>0.2</sub>O<sub>3</sub> Perovskite in Energy Storage and Conversion: Past, Present, and Future. *Energy & Fuels*, **2021**, 35, 13585-13609 4.1 21
- 267 Rational Design of LaNiO<sub>3</sub>/Carbon Composites as Outstanding Platinum-Free Photocathodes in Dye-Sensitized Solar Cells With Enhanced Catalysis for the Triiodide Reduction Reaction. *Solar Rrl*, **2017**, 1, 1700074 7.1 20
- 266 A highly sensitive perovskite oxide sensor for detection of p-phenylenediamine in hair dyes. *Journal of Hazardous Materials*, **2019**, 369, 699-706 12.8 20
- 265 Dodecylamine-Induced Synthesis of a Nitrogen-Doped Carbon Comb for Advanced Lithium-Sulfur Battery Cathodes. *Advanced Materials Interfaces*, **2018**, 5, 1701659 4.6 20
- 264 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 9.5 20
- 263 Smart Control of Composition for Double Perovskite Electrocatalysts toward Enhanced Oxygen Evolution Reaction. *ChemSusChem*, **2019**, 12, 5111-5116 8.3 20
- 262 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 6.7 20
- 261 Optimal hydrothermal synthesis of hierarchical porous ZnMn<sub>2</sub>O<sub>4</sub> microspheres with more porous core for improved lithium storage performance. *Electrochimica Acta*, **2016**, 207, 58-65 6.7 20
- 260 Cation-Deficient Perovskites for Clean Energy Conversion. *Accounts of Materials Research*, **2021**, 2, 477-488 7.9 20



259	An in situ formed MnO <sub>x</sub> composite catalyst layer over Ni <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2</sub> anodes for direct methane solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6494-6503	13	19
258	Boosting the oxygen evolution catalytic performance of perovskites via optimizing calcination temperature. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6480-6486	13	19
257	Bulk and Surface Properties Regulation of Single/Double Perovskites to Realize Enhanced Oxygen Evolution Reactivity. <i>ChemSusChem</i> , <b>2020</b> , 13, 3045-3052	8.3	19
256	Enhancing Oxygen Reduction Reaction Activity and CO Tolerance of Cathode for Low-Temperature Solid Oxide Fuel Cells by in Situ Formation of Carbonates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26909-26919	9.5	19
255	A CO <sub>2</sub> -tolerant nanostructured layer for oxygen transport membranes. <i>RSC Advances</i> , <b>2014</b> , 4, 25924	3.7	19
254	A single-step synthesized cobalt-free barium ferrites-based composite cathode for intermediate temperature solid oxide fuel cells. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 1340-1343	5.1	19
253	Fabrication and performance of a carbon dioxide-tolerant proton-conducting solid oxide fuel cells with a dual-layer electrolyte. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10513-10521	6.7	19
252	Understanding and Engineering of Multiphase Transport Processes in Membrane Electrode Assembly of Proton-Exchange Membrane Fuel Cells with a Focus on the Cathode Catalyst Layer: A Review. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 9175-9188	4.1	19
251	Tailored Brownmillerite Oxide Catalyst with Multiple Electronic Functionalities Enables Ultrafast Water Oxidation. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5233-5241	9.6	19
250	A Highly Ordered Hydrophilic/Hydrophobic Janus Bi-Functional Layer with Ultralow Pt Loading and Fast Gas/Water Transport for Fuel Cells. <i>Energy and Environmental Materials</i> , <b>2021</b> , 4, 126-133	13	19
249	Tailoring charge and mass transport in cation/anion-codoped Ni <sub>3</sub> N / N-doped CNT integrated electrode toward rapid oxygen evolution for fast-charging zinc-air batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 39, 11-20	19.4	19
248	An Intrinsically Conductive Phosphorus-Doped Perovskite Oxide as a New Cathode for High-Performance Dye-Sensitized Solar Cells by Providing Internal Conducting Pathways. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900108	7.1	18
247	New Phosphorus-Doped Perovskite Oxide as an Oxygen Reduction Reaction Electrocatalyst in an Alkaline Solution. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 6950-6957	4.8	18
246	Three Strongly Coupled Allotropes in a Functionalized Porous All-Carbon Nanocomposite as a Superior Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2016</b> , 3, 698-703	4.3	18
245	A new approach to nanoporous graphene sheets via rapid microwave-induced plasma for energy applications. <i>Nanotechnology</i> , <b>2014</b> , 25, 495604	3.4	18
244	Electric Power and Synthesis Gas Co-generation From Methane with Zero Waste Gas Emission. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1832-1837	3.6	18
243	Effects of preparation methods on the oxygen nonstoichiometry, B-site cation valences and catalytic efficiency of perovskite La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> . <i>Ceramics International</i> , <b>2009</b> , 35, 3201-3206	5.1	18
242	Influence of high-energy ball milling of the starting powder on the sintering; microstructure and oxygen permeability of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>0.5</sub> O <sub>3</sub> membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 366, 203-211	9.6	18

- 241 Effect of pH on synthesis and properties of perovskite oxide via a citrate process. *AIChE Journal*, **2006**, 52, 769-776 3.6 18
- 240 Modified cellulose adsorption method for the synthesis of conducting perovskite powders for membrane application. *Powder Technology*, **2002**, 122, 26-33 5.2 18
- 239 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 6.7 18
- 238 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 6.1 17
- 237 Rational design of NiCo<sub>2</sub>O<sub>4</sub>/g-C<sub>3</sub>N<sub>4</sub> composite as practical anode of lithium-ion batteries with outstanding electrochemical performance from multiple aspects. *Journal of Alloys and Compounds*, **2019**, 805, 522-530 5.7 17
- 236 Ternary Phase Diagram-Facilitated Rapid Screening of Double Perovskites As Electrocatalysts for the Oxygen Evolution Reaction. *Chemistry of Materials*, **2019**, 31, 5919-5926 9.6 17
- 235 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<sup>13</sup> 19233<sup>17</sup>
- 234 High performance tubular solid oxide fuel cells with BSCF cathode. *International Journal of Hydrogen Energy*, **2012**, 37, 13022-13029 6.7 17
- 233 Electrochemical contribution of silver current collector to oxygen reduction reaction over Ba<sub>0.5</sub>Sr<sub>0.5</sub>Co<sub>0.8</sub>Fe<sub>0.2</sub>O<sub>3- $\lambda$</sub>  electrode on oxygen-ionic conducting electrolyte. *International Journal of Hydrogen Energy*, **2012**, 37, 14492-14500 6.7 17
- 232 Functional nano-composite oxides synthesized by environmental-friendly auto-combustion within a micro-bioreactor. *Materials Research Bulletin*, **2008**, 43, 2248-2259 5.1 17
- 231 High-Performance Proton-Conducting Fuel Cell with B-Site-Deficient Perovskites for All Cell Components. *Energy & Fuels*, **2020**, 34, 11464-11471 4.1 17
- 230 Cr<sup>VI</sup>/Zn Redox Battery with NiFe<sub>2</sub>O<sub>4</sub> as Catalyst for Enhanced Degradation of Cr(VI) Pollution. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 111-116 8.3 17
- 229 Reduced air sensitivity and improved electrochemical stability of P<sub>2</sub>N<sub>2</sub>/3Mn<sub>1</sub>/2Fe<sub>1</sub>/4Co<sub>1</sub>/4O<sub>2</sub> through atomic layer deposition-assisted Al<sub>2</sub>O<sub>3</sub> coating. *Composites Part B: Engineering*, **2019**, 173, 1069-113<sup>10</sup> 16
- 228 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 9.5 16
- 227 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 6.7 16
- 226 Efficient water splitting through solid oxide electrolysis cells with a new hydrogen electrode derived from A-site cation-deficient La<sub>0.4</sub>Sr<sub>0.55</sub>Co<sub>0.2</sub>Fe<sub>0.6</sub>Nb<sub>0.2</sub>O<sub>3- $\lambda$</sub> -perovskite. *Materials Today Energy*, **2020**, 17, 100458 7 16
- 225 The Synergistic Effect Accelerates the Oxygen Reduction/Evolution Reaction in a Zn-Air Battery. *Frontiers in Chemistry*, **2019**, 7, 524 5 16
- 224 Integrated Ultrafine Co Se in Carbon Nanofibers: An Efficient and Robust Bifunctional Catalyst for Oxygen Electrocatalysis. *Chemistry - A European Journal*, **2019**, 26, 4063 4.8 16

223	Facile fabrication and improved carbon dioxide tolerance of a novel bilayer-structured ceramic oxygen permeating membrane. <i>Journal of Membrane Science</i> , <b>2014</b> , 472, 10-18	9.6	16
222	Activation of a single-chamber solid oxide fuel cell by a simple catalyst-assisted in-situ process. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1563-1566	5.1	16
221	NiCo <sub>2</sub> S <sub>4</sub> spheres grown on N,S co-doped rGO with high sulfur vacancies as superior oxygen bifunctional electrocatalysts. <i>Electrochimica Acta</i> , <b>2020</b> , 331, 135356	6.7	16
220	Advances in Ceramic Thin Films Fabricated by Pulsed Laser Deposition for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 10568-10582	4.1	16
219	Self-Supported Nickel Phosphide Electrode for Efficient Alkaline Water-to-Hydrogen Conversion via Urea Electrolysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 1185-1193	3.9	16
218	Materials design for ceramic oxygen permeation membranes: Single perovskite vs. single/double perovskite composite, a case study of tungsten-doped barium strontium cobalt ferrite. <i>Journal of Membrane Science</i> , <b>2018</b> , 566, 278-287	9.6	16
217	NaCoFeO Layered Oxide As Highly Efficient Water Oxidation Electrocatalyst in Alkaline Media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21587-21592	9.5	15
216	Oxygen permeation behavior through Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-<math>\delta</math></sub> membranes electronically short-circuited by dual-phase Ce <sub>0.9</sub> Gd <sub>0.1</sub> O <sub>2-<math>\delta</math></sub> g decoration. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19033-19041	13	15
215	A new highly active and CO <sub>2</sub> -stable perovskite-type cathode material for solid oxide fuel cells developed from A- and B-site cation synergy. <i>Journal of Power Sources</i> , <b>2020</b> , 457, 227995	8.9	15
214	Activation-free supercapacitor electrode based on surface-modified Sr <sub>2</sub> CoMo <sub>1-x</sub> Ni <sub>x</sub> O <sub>6-<math>\delta</math></sub> perovskite. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124645	14.7	15
213	Rational confinement of molybdenum based nanodots in porous carbon for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10403-10408	13	15
212	Facile conversion of commercial coarse-type LiCoO <sub>2</sub> to nanocomposite-separated nanolayer architectures as a way for electrode performance enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 1787-94	9.5	15
211	Sintering and oxygen permeation studies of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> ceramic membranes with improved purity. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 2931-2938	6	15
210	A three-dimensional highly interconnected composite oxygen reduction reaction electrocatalyst prepared from a core-shell precursor. <i>ChemSusChem</i> , <b>2011</b> , 4, 1582-6	8.3	15
209	Activation and Deactivation Kinetics of Oxygen Reduction over a La <sub>0.8</sub> Sr <sub>0.2</sub> Sc <sub>0.1</sub> Mn <sub>0.9</sub> O <sub>3</sub> Cathode. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18690-18700	3.8	15
208	Zeolitic Imidazolate Framework-Derived Ordered Pt/Fe Intermetallic Electrocatalysts for High-Performance Zn-Air Batteries. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11527-11535	4.1	15
207	Exsolved Alloy Nanoparticles Decorated Ruddlesden-Popper Perovskite as Sulfur-Tolerant Anodes for Solid Oxide Fuel Cells. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11449-11457	4.1	15
206	New Undisputed Evidence and Strategy for Enhanced Lattice-Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation.. <i>Advanced Science</i> , <b>2022</b> , e2200530	13.6	15

205	Synthesis of nano-particle and highly porous conducting perovskites from simple in situ sol-gel derived carbon templating process. <i>Bulletin of Materials Science</i> , <b>2010</b> , 33, 371-376	1.7	14
204	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 041304	17.3	14
203	Porous Structure Engineering of Iridium Oxide Nanoclusters on Atomic Scale for Efficient pH-Universal Overall Water Splitting. <i>Small</i> , <b>2021</b> , 17, e2100121	11	14
202	Nanofluidic Behaviors of Water and Ions in Covalent Triazine Framework (CTF) Multilayers. <i>Small</i> , <b>2020</b> , 16, e1903879	11	14
201	Nanocomposites: A New Opportunity for Developing Highly Active and Durable Bifunctional Air Electrodes for Reversible Protonic Ceramic Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101899	21.8	14
200	A bilateral cyano molecule serving as an effective additive enables high-efficiency and stable perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 62, 243-251	12	14
199	High Configuration Entropy Activated Lattice Oxygen for O <sub>2</sub> Formation on Perovskite Electrocatalyst. <i>Advanced Functional Materials</i> , 2112157	15.6	14
198	Sc and Nb dopants in SrCoO <sub>3</sub> modulate electronic and vacancy structures for improved water splitting and SOFC cathodes. <i>Energy Storage Materials</i> , <b>2017</b> , 9, 229-234	19.4	13
197	The preparation of LaSr <sub>3</sub> Fe <sub>3</sub> O <sub>10</sub> and its electrochemical performance. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1343-1348	2.6	13
196	Preparation of thin electrolyte film via dry pressing/heating /quenching/calcining for electrolyte-supported SOFCs. <i>Ceramics International</i> , <b>2019</b> , 45, 9866-9870	5.1	13
195	Facile synthesis of synergistic Pt/(Co-N)@C composites as alternative oxygen-reduction electrode of PEMFCs with attractive activity and durability. <i>Composites Part B: Engineering</i> , <b>2020</b> , 193, 108012	10	13
194	Manipulating cation nonstoichiometry towards developing better electrolyte for self-humidified dual-ion solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2020</b> , 460, 228105	8.9	13
193	A new way to increase performance of oxide electrode for oxygen reduction using grain growth inhibitor. <i>Electrochemistry Communications</i> , <b>2012</b> , 14, 36-38	5.1	13
192	A Highly Active Perovskite Electrode for the Oxygen Reduction Reaction Below 600 °C. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 14286-14290	3.6	13
191	Effect of foreign oxides on the phase structure, sintering and transport properties of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> ceramic membranes for oxygen separation. <i>Separation and Purification Technology</i> , <b>2011</b> , 81, 384-391	8.3	13
190	Facile auto-combustion synthesis for oxygen separation membrane application. <i>Journal of Membrane Science</i> , <b>2009</b> , 329, 219-227	9.6	13
189	Cr doping effect in B-site of La <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> on its phase stability and performance as an SOFC anode. <i>Rare Metals</i> , <b>2009</b> , 28, 361-366	5.5	13
188	A New Durable Surface Nanoparticles-Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere.. <i>Advanced Materials</i> , <b>2021</b> , e2106379	24	13

187	Efficient Water Splitting Actualized through an Electrochemistry-Induced Hetero-Structured Antiperovskite/(Oxy)Hydroxide Hybrid. <i>Small</i> , <b>2020</b> , 16, e2006800	11	13
186	Progress on X-ray Absorption Spectroscopy for the Characterization of Perovskite-Type Oxide Electrocatalysts. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 5716-5737	4.1	13
185	SrCo <sub>0.8</sub> Ti <sub>0.1</sub> Ta <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> -Perovskite: A new highly active and durable cathode material for intermediate-temperature solid oxide fuel cells. <i>Composites Part B: Engineering</i> , <b>2021</b> , 213, 108726	10	13
184	Utilization of low-concentration coal-bed gas to generate power using a core-shell catalyst-modified solid oxide fuel cell. <i>Renewable Energy</i> , <b>2020</b> , 147, 602-609	8.1	13
183	Intermediate-Temperature Solid Oxide Fuel Cells. <i>Green Chemistry and Sustainable Technology</i> , <b>2016</b> ,	1.1	12
182	Process Investigation of a Solid Carbon-Fueled Solid Oxide Fuel Cell Integrated with a CO <sub>2</sub> -Permeating Membrane and a Sintering-Resistant Reverse Boudouard Reaction Catalyst. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 1841-1848	4.1	12
181	Constructing self-standing and non-precious metal heterogeneous nanowire arrays as high-performance oxygen evolution electrocatalysts: Beyond the electronegativity effect of the substrate. <i>Journal of Power Sources</i> , <b>2018</b> , 396, 421-428	8.9	12
180	Enhanced coking resistance of Ni cermet anodes for solid oxide fuel cells based on methane on-cell reforming by a redox-stable double-perovskite Sr <sub>2</sub> MoFeO <sub>6-<math>\delta</math></sub> . <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 2527-2537	4.5	12
179	Influence of sealing materials on the oxygen permeation fluxes of some typical oxygen ion conducting ceramic membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 470, 102-111	9.6	12
178	Effect of fabrication method on properties and performance of bimetallic Ni <sub>0.75</sub> Fe <sub>0.25</sub> anode catalyst for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9287-9297	6.7	12
177	Microwave-plasma induced reconstruction of silver catalysts for highly efficient oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13746	13	12
176	Low-temperature synthesis of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> -perovskite powder via asymmetric sol-gel process and catalytic auto-combustion. <i>Ceramics International</i> , <b>2009</b> , 35, 2809-2815	5.1	12
175	Modulating metal-organic frameworks for catalyzing acidic oxygen evolution for proton exchange membrane water electrolysis. <i>SusMat</i> , <b>2021</b> , 1, 460-481		12
174	Postsynthesis Oxygen Nonstoichiometric Regulation: A New Strategy for Performance Enhancement of Perovskites in Advanced Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 99-109	3.9	12
173	Realizing stable high hydrogen permeation flux through BaCo <sub>0.4</sub> Fe <sub>0.4</sub> Zr <sub>0.1</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> -membrane using a thin Pd film protection strategy. <i>Journal of Membrane Science</i> , <b>2020</b> , 596, 117709	9.6	12
172	Development of nickel based cermet anode materials in solid oxide fuel cells [Now and future. <i>Materials Reports Energy</i> , <b>2021</b> , 1, 100003		12
171	Interfacial La Diffusion in the CeO/LaFeO Hybrid for Enhanced Oxygen Evolution Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2799-2806	9.5	12
170	A molecular-level strategy to boost the mass transport of perovskite electrocatalyst for enhanced oxygen evolution. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 011407	17.3	12



169	Hydrogen spillover in complex oxide multifunctional sites improves acidic hydrogen evolution electrocatalysis.. <i>Nature Communications</i> , <b>2022</b> , 13, 1189	17.4	12
168	Chlorine-Doped Perovskite Oxide: A Platinum-Free Cathode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35641-35652	9.5	11
167	Nonstoichiometric perovskite for enhanced catalytic oxidation through excess A-site cation. <i>Chemical Engineering Science</i> , <b>2020</b> , 219, 115596	4.4	11
166	Direct Power Generation from Low Concentration Coal-Bed Gas by a Catalyst-Modified Solid Oxide Fuel Cell. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1459-1466	4.3	11
165	Coking-resistant Ce <sub>0.8</sub> Ni <sub>0.2</sub> O <sub>2</sub> -Internal reforming layer for direct methane solid oxide fuel cells. <i>Electrochimica Acta</i> , <b>2018</b> , 282, 402-408	6.7	11
164	Silver-Perovskite Hybrid Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H524-H529	3.9	11
163	Stability of YSZ and SDC in molten carbonate eutectics for hybrid direct carbon fuel cells. <i>RSC Advances</i> , <b>2014</b> , 4, 2398-2403	3.7	11
162	Flower-like perovskite LaCr <sub>0.9</sub> Ni <sub>0.1</sub> O <sub>3</sub> nanostructures: a new candidate for CO <sub>2</sub> reforming of methane. <i>RSC Advances</i> , <b>2014</b> , 4, 21306	3.7	11
161	Mixed fuel strategy for carbon deposition mitigation in solid oxide fuel cells at intermediate temperatures. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7122-7	10.3	11
160	Samaria-Doped Ceria Electrolyte Supported Direct Carbon Fuel Cell with Molten Antimony as the Anode. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17927-17933	3.9	11
159	An extremely active and durable Mo <sub>2</sub> C/graphene-like carbon based electrocatalyst for hydrogen evolution reaction. <i>Materials Today Energy</i> , <b>2017</b> , 6, 230-237	7	11
158	Coke-free direct formic acid solid oxide fuel cells operating at intermediate temperatures. <i>Journal of Power Sources</i> , <b>2012</b> , 220, 147-152	8.9	11
157	CO <sub>2</sub> and water vapor-tolerant yttria stabilized bismuth oxide (YSB) membranes with external short circuit for oxygen separation with CO <sub>2</sub> capture at intermediate temperatures. <i>Journal of Membrane Science</i> , <b>2013</b> , 427, 168-175	9.6	11
156	Study on proton-conducting solid oxide fuel cells with a conventional nickel cermet anode operating on dimethyl ether. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9246-9253	8.9	11
155	Well-crystallized mesoporous samaria-doped ceria from EDTA-citrate complexing process with in situ created NiO as recyclable template. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, 271-277	5.7	11
154	Effects of sintering atmospheres on sintering behavior, electrical conductivity and oxygen permeability of mixed-conducting membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 316, 128-136	9.6	11
153	Coal pretreatment and Ag-infiltrated anode for high-performance hybrid direct coal fuel cell. <i>Applied Energy</i> , <b>2020</b> , 260, 114197	10.7	11
152	Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen Defects for Zinc-Air Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4949-4955	4.3	11

151	Tuning Nitrogen in Graphitic Carbon Nitride Enabling Enhanced Performance for Polysulfide Confinement in LiS Batteries. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11557-11564	4.1	11
150	Achieving Safe and Dendrite-Suppressed Solid-State Li Batteries via a Novel Self-Extinguished Trimethyl Phosphate-Based Wetting Agent. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11547-11556	4.1	11
149	Towards highly stable and efficient planar perovskite solar cells: Materials development, defect control and interfacial engineering. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127599	14.7	11
148	Synergistic effects in ordered Co oxides for boosting catalytic activity in advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120463	21.8	11
147	A simple strategy that may effectively tackle the anode-electrolyte interface issues in solid-state lithium metal batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131001	14.7	11
146	Two-Step Fabrication of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -Coated Carbon Nanofibers as a Flexible Film Electrode for High-Power Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2286-2292	4.3	10
145	Amorphous Ni <sub>0.75</sub> Fe <sub>0.25</sub> (OH) <sub>2</sub> -Decorated Layered Double Perovskite Pr <sub>0.5</sub> Ba <sub>0.5</sub> CoO <sub>3</sub> -f for Highly Efficient and Stable Water Oxidation. <i>ChemElectroChem</i> , <b>2017</b> , 4, 550-556	4.3	10
144	Turning Detrimental Effect into Benefits: Enhanced Oxygen Reduction Reaction Activity of Cobalt-Free Perovskites at Intermediate Temperature CO-Induced Surface Activation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16417-16425	9.5	10
143	Highly Oxygen Non-Stoichiometric BaSc <sub>0.25</sub> Co <sub>0.75</sub> O <sub>3-δ</sub> as a High-Performance Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , <b>2018</b> , 5, 785-792	4.3	10
142	Graphene decorated with multiple nanosized active species as dual function electrocatalysts for lithium-oxygen batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 188, 718-726	6.7	10
141	Rational Design of Superior, Coking-Resistant, Nickel-Based Anodes through Tailoring Interfacial Reactions for Solid Oxide Fuel Cells Operated on Methane Fuel. <i>ChemSusChem</i> , <b>2018</b> , 11, 3112-3119	8.3	10
140	Multifold Nanostructuring and Atomic-Scale Modulation of Cobalt Phosphide to Significantly Boost Hydrogen Production. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 13800-13806	4.8	10
139	Fabrication and operation of flow-through tubular SOFCs for electric power and synthesis gas cogeneration from methane. <i>AIChE Journal</i> , <b>2014</b> , 60, 1036-1044	3.6	10
138	Single-chamber solid oxide fuel cells with nanocatalyst-modified anodes capable of in situ activation. <i>Journal of Power Sources</i> , <b>2014</b> , 264, 220-228	8.9	10
137	Yolkshell-Structured Cu/Fe@Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Loaded Graphitic Porous Carbon for the Oxygen Reduction Reaction. <i>Particle and Particle Systems Characterization</i> , <b>2017</b> , 34, 1700158	3.1	10
136	Development of high-performance cathodes for IT-SOFCs through beneficial interfacial reactions. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 2216-2219	5.1	10
135	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. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 7601-7608	8.9	10
134	Characterization and optimization of La <sub>0.8</sub> Sr <sub>0.2</sub> Sc <sub>0.1</sub> Mn <sub>0.9</sub> O <sub>3</sub> -based composite electrodes for intermediate-temperature solid-oxide fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 641-648	8.9	10

133	Electrochemistry and energy conversion features of protonic ceramic cells with mixed ionic-electronic electrolytes. <i>Energy and Environmental Science</i> , <b>2021</b> ,	35.4	10
132	Non-metal fluorine doping in Ruddlesden-Popper perovskite oxide enables high-efficiency photocatalytic water splitting for hydrogen production. <i>Materials Today Energy</i> , <b>2021</b> , 100896	7	10
131	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. <i>Chemical Physics Reviews</i> , <b>2020</b> , 1, 011303	4.4	10
130	Enabling efficient hydrogen-evolution reaction over perovskite oxide electrocatalysts through phosphorus promotion. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 24859-24869	6.7	10
129	Recent advances in functional oxides for high energy density sodium-ion batteries. <i>Materials Reports Energy</i> , <b>2021</b> , 1, 100022		10
128	An Aurivillius Oxide Based Cathode with Excellent CO <sub>2</sub> Tolerance for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9134-9139	3.6	10
127	Scandium and phosphorus co-doped perovskite oxides as high-performance electrocatalysts for the oxygen reduction reaction in an alkaline solution. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 39, 22-27	9.1	10
126	An Adsorption-Catalysis Pathway toward Sustainable Application of Mesoporous Carbon Nanospheres for Efficient Environmental Remediation. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 145-156		10
125	Layered Co/Ni-free oxides for sodium-ion battery cathode materials. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2019</b> , 17, 29-34	7.9	9
124	Co-Rich Na CoP O Phosphates as Efficient Bifunctional Catalysts for Oxygen Evolution and Reduction Reactions in Alkaline Solution. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11007-11014	4.8	9
123	Perovskite-Based Multifunctional Cathode with Simultaneous Supplementation of Substrates and Electrons for Enhanced Microbial Electrosynthesis of Organics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 30449-30456	9.5	9
122	Optimization of SnO <sub>2</sub> Nanoparticles Confined in a Carbon Matrix towards Applications as High-Capacity Anodes in Sodium-Ion Batteries. <i>ChemistrySelect</i> , <b>2018</b> , 3, 4015-4022	1.8	9
121	Design and investigation of dual-layer electrodes for proton exchange membrane fuel cells. <i>Solid State Ionics</i> , <b>2014</b> , 262, 313-318	3.3	9
120	Enhancing the photocatalytic activity of Ruddlesden-Popper Sr <sub>2</sub> TiO <sub>4</sub> for hydrogen evolution through synergistic silver doping and moderate reducing pretreatment. <i>Materials Today Energy</i> , <b>2021</b> , 23, 100899	7	9
119	Purified high-sulfur coal as a fuel for direct carbon solid oxide fuel cells. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 2501-2513	4.5	9
118	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128105	14.7	9
117	Alkaline metal doped strontium cobalt ferrite perovskites as cathodes for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 13420-13429	6.7	9
116	Activating Both Basal Plane and Edge Sites of Layered Cobalt Oxides for Boosted Water Oxidation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103569	15.6	9

115	Ni <sup>2+</sup> /Co <sup>2+</sup> doped Au-Fe <sub>7</sub> S <sub>8</sub> nanoplatelets with exceptionally high oxygen evolution reaction activity. <i>Nano Energy</i> , <b>2021</b> , 89, 106463	17.1	9
114	Double perovskite Pr <sub>2</sub> CoFeO <sub>6</sub> thermoelectric oxide: Roles of Sr-doping and Micro/nanostructuring. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 130668	14.7	9
113	Interface engineered perovskite oxides for enhanced catalytic oxidation: The vital role of lattice oxygen. <i>Chemical Engineering Science</i> , <b>2021</b> , 245, 116944	4.4	9
112	One-pot synthesis of silver-modified sulfur-tolerant anode for SOFCs with an expanded operation temperature window. <i>AIChE Journal</i> , <b>2017</b> , 63, 4287-4295	3.6	8
111	Synthesis of Highly Porous Metal-Free Oxygen Reduction Electrocatalysts in a Self-Sacrificial Bacterial Cellulose Microreactor. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1700045	5.9	8
110	Enhancing the oxygen reduction activity of PrBaCo <sub>2</sub> O <sub>5+<math>\delta</math></sub> double perovskite cathode by tailoring the calcination temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 25996-26004	6.7	8
109	Inherently Catalyzed Boudouard Reaction of Bamboo Biochar for Solid Oxide Fuel Cells with Improved Performance. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4559-4568	4.1	8
108	MnO-Co composite modified Ni-SDC anode for intermediate temperature solid oxide fuel cells. <i>Fuel Processing Technology</i> , <b>2017</b> , 161, 241-247	7.2	8
107	Low-Temperature Synthesis of Hierarchical Amorphous Basic Nickel Carbonate Particles for Water Oxidation Catalysis. <i>ChemSusChem</i> , <b>2015</b> , 8, 2193-7	8.3	8
106	Alternative perovskite materials as a cathode component for intermediate temperature single-chamber solid oxide fuel cell. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 4758-4764	8.9	8
105	Superstructures with Atomic-Level Arranged Perovskite and Oxide Layers for Advanced Oxidation with an Enhanced Non-Free Radical Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1899-1909	8.3	8
104	Towards practically accessible aprotic Li-air batteries: Progress and challenges related to oxygen-permeable membranes and cathodes. <i>Energy Storage Materials</i> , <b>2022</b> , 45, 869-902	19.4	8
103	A mini-review of noble-metal-free electrocatalysts for overall water splitting in non-alkaline electrolytes. <i>Materials Reports Energy</i> , <b>2021</b> , 1, 100024		8
102	One-pot combustion synthesis of Li <sub>3</sub> VO <sub>4</sub> -Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanocomposite as anode material of lithium-ion batteries with improved performance. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 587-595	6.7	8
101	Enhanced coking resistance of a Ni cermet anode by a chromates protective layer. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 37, 117-125	12	8
100	Improving Moisture/Thermal Stability and Efficiency of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> -Based Perovskite Solar Cells via Gentle Butyl Acrylate Additive Strategy. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000621	7.1	8
99	Nitrogen-Doped Graphitic Carbon Protected Cu/Co/CoO Nanoparticles for Ultrasensitive and Stable Non-Enzymatic Determination of Glucose and Fructose in Wine. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, B543-B550	3.9	8
98	Exceptionally Robust Face-Sharing Motifs Enable Efficient and Durable Water Oxidation. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103392	24	8

97	Exceptional lattice-oxygen participation on artificially controllable electrochemistry-induced crystalline-amorphous phase to boost oxygen-evolving performance. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120484	21.8	8
96	Spontaneous Formation of Heterodimer AuBe <sub>7</sub> S <sub>8</sub> Nanoplatelets by a Seeded Growth Approach. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10604-10613	3.8	7
95	A cobalt-free layered oxide as an oxygen reduction catalyst for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 15578-15584	6.7	7
94	In situ growth of nanoflake and nanoflower-like Ni hydrated hydroxide on the surface of Ni foam as a free-standing electrode for high-performance phosphate detection. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 122313	12.8	7
93	Direct Operation of Solid Oxide Fuel Cells on Low-Concentration Oxygen-Bearing Coal-Bed Methane with High Stability. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4547-4558	4.1	7
92	Evaluation of the CO <sub>2</sub> tolerant cathode for solid oxide fuel cells: Praseodymium oxysulfates/Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> . <i>Applied Surface Science</i> , <b>2019</b> , 472, 10-15	6.7	7
91	The significant effect of the phase composition on the oxygen reduction reaction activity of a layered oxide cathode. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11026	13	7
90	A Carbon-Air Battery for High Power Generation. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 3793-3796	3.6	7
89	Further performance enhancement of a DME-fueled solid oxide fuel cell by applying anode functional catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 6844-6852	6.7	7
88	The instability of solid oxide fuel cells in an intermediate temperature region. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2011</b> , 6, 199-203	1.3	7
87	Maximizing acetylene packing density for highly efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> separation through immobilization of amine sites within a prototype MOF. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134184	14.7	7
86	Roadmap on Sustainable Mixed Ionic-Electronic Conducting Membranes. <i>Advanced Functional Materials</i> , 2105702	15.6	7
85	Tuning the A-Site Cation Deficiency of La <sub>0.8</sub> Sr <sub>0.2</sub> FeO <sub>3</sub> Perovskite Oxides for High-Efficiency Triiodide Reduction Reaction in Dye-Sensitized Solar Cells. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 11322-11329	4.1	7
84	In-situ exsolution of CoNi alloy nanoparticles on LiFe <sub>0.8</sub> Co <sub>0.1</sub> Ni <sub>0.1</sub> O <sub>2</sub> parent: New opportunity for boosting oxygen evolution and reduction reaction. <i>Applied Surface Science</i> , <b>2021</b> , 543, 148817	6.7	7
83	A Direct -Butane Solid Oxide Fuel Cell Using Ba(ZrCeYYb)NiRuO Perovskite as the Reforming Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 20105-20113	9.5	7
82	Cu-modified Ni foams as three-dimensional outer anodes for high-performance hybrid direct coal fuel cells. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128239	14.7	7
81	Oxide-based precious metal-free electrocatalysts for anion exchange membrane fuel cells: from material design to cell applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3151-3179	13	7
80	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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41257-41267	9.5	7



79	Bridging the Charge Accumulation and High Reaction Order for High-Rate Oxygen Evolution and Long Stable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2111989	15.6	7
78	Promoted spatial charge separation of plasmon Ag and co-catalyst Co P decorated mesoporous g-CN nanosheet assembly for unexpected solar-driven photocatalytic performance. <i>Nanotechnology</i> , <b>2019</b> , 30, 485401	3.4	6
77	Unveiling Lithium Roles in Cobalt-Free Cathodes for Efficient Oxygen Reduction Reaction below 600 °C. <i>ChemElectroChem</i> , <b>2019</b> , 6, 5340-5348	4.3	6
76	Morphology and Catalytic Performance of Flake-Shaped NiO-Yttria-Stabilized Zirconia (YSZ) Particles with Nanocrystalline YSZ Grains. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 6387-6394	3.9	6
75	Effects of niobium doping site and concentration on the phase structure and oxygen permeability of Nb-substituted SrCoOx oxides. <i>Ceramics International</i> , <b>2010</b> , 36, 635-641	5.1	6
74	A low resistance and stable lithium-garnet electrolyte interface enabled by a multifunctional anode additive for solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 2519-2527	13	6
73	Self-catalyzed formation of strongly interconnected multiphase molybdenum-based composites for efficient hydrogen evolution		6
72	Benefitting from Synergistic Effect of Anion and Cation in Antimony Acetate for Stable CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> -Based Perovskite Solar Cell with Efficiency Beyond 21. <i>Small</i> , <b>2021</b> , 17, e2102186	11	6
71	Organic Photochemistry-Assisted Nanoparticle Segregation on Perovskites. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100243	6.1	6
70	New TiO <sub>2</sub> -Based Oxide for Catalyzing Alkaline Hydrogen Evolution Reaction with Noble Metal-Like Performance.. <i>Small Methods</i> , <b>2021</b> , 5, e2100246	12.8	6
69	Building Ruddlesden-Popper and Single Perovskite Nanocomposites: A New Strategy to Develop High-Performance Cathode for Protonic Ceramic Fuel Cells. <i>Small</i> , <b>2021</b> , 17, e2101872	11	6
68	Ultrathin 2D catalysts with N-coordinated single Co atom outside Co cluster for highly efficient Zn-air battery. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 129719	14.7	6
67	High activity and durability of a Pt <sub>1</sub> Co <sub>1</sub> Co <sub>1</sub> ternary alloy electrocatalyst and its large-scale preparation for practical proton exchange membrane fuel cells. <i>Composites Part B: Engineering</i> , <b>2021</b> , 222, 109082	10	6
66	Single-atom catalysts for high-efficiency photocatalytic and photoelectrochemical water splitting: distinctive roles, unique fabrication methods and specific design strategies. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 6835-6871	13	6
65	A universal chemical-induced tensile strain tuning strategy to boost oxygen-evolving electrocatalysis on perovskite oxides. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 011422	17.3	6
64	Electrochemical performance and stability of nano-structured Co/PdO-co-impregnated Y <sub>2</sub> O <sub>3</sub> stabilized ZrO <sub>2</sub> cathode for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 6978-6987	6.7	5
63	Perovskites: Realizing Ultrafast Oxygen Evolution by Introducing Proton Acceptor into Perovskites (Adv. Energy Mater. 20/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970071	21.8	5
62	Fast cation exchange of layered sodium transition metal oxides for boosting oxygen evolution activity and enhancing durability. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8075-8083	13	5

61	A steel slag-derived Boudouard reaction catalyst for improved performance of direct carbon solid oxide fuel cells. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 6970	4.5	5
60	Rational Design of a High-Durability Pt-Based ORR Catalyst Supported on Mn/N Codoped Carbon Sheets for PEMFCs. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 1707-1715	4.1	5
59	First investigation of additive engineering for highly efficient Cs <sub>2</sub> AgBiBr <sub>6</sub> -based lead-free inorganic perovskite solar cells. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 041402	17.3	5
58	Covalent Organic Framework (COF)-Based Hybrids for Electrocatalysis: Recent Advances and Perspectives.. <i>Small Methods</i> , <b>2021</b> , 5, e2100945	12.8	5
57	Efficient Ferrite-Based Perovskite Anode for Solid Oxide Fuel Cells with A-Site and B-Site Co-exsolution. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 10100-10108	4.1	5
56	Perowskitoxid-Elektroden zur leistungsstarken photoelektrochemischen Wasserspaltung. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 140-158	3.6	5
55	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO Electrolysis at Ultrahigh Current Densities. <i>Small</i> , <b>2021</b> , 17, e2007211	11	5
54	Metal-free carbon based air electrodes for Zn-air batteries: Recent advances and perspective. <i>Materials Research Bulletin</i> , <b>2021</b> , 140, 111315	5.1	5
53	Intrinsic vacancy suppression and band convergence to enhance thermoelectric performance of (Ge, Bi, Sb)Te crystals. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132275	14.7	5
52	Tailoring structural properties of carbon via implanting optimal co nanoparticles in n-rich carbon cages toward high-efficiency oxygen electrocatalysis for rechargeable zn-air batteries		5
51	Correction: Advances in non-enzymatic glucose sensors based on metal oxides. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 1117	7.3	4
50	Improvement of solid oxide fuel cell performance by a core-shell structured catalyst using low concentration coal bed methane fuel. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 5516-5526	4.5	4
49	Sodium fluoride sacrificing layer concept enables high-efficiency and stable methylammonium lead iodide perovskite solar cells. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 113, 138-146	9.1	4
48	Engineering Charge Redistribution within Perovskite Oxides for Synergistically Enhanced Overall Water Splitting <b>2021</b> , 3, 1258-1265		4
47	Thermal reduction-assisted electronic structure tuning of perovskite oxide as catalyst for efficient advanced oxidation. <i>Composites Part B: Engineering</i> , <b>2021</b> , 207, 108577	10	4
46	Perovskites for protonic ceramic fuel cells: a review. <i>Energy and Environmental Science</i> ,	35.4	4
45	Realizing High and Stable Electrocatalytic Oxygen Evolution for Iron-Based Perovskites by Co-Doping-Induced Structural and Electronic Modulation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2111091	15.6	4
44	A New Sodium-ion-conducting Layered Perovskite Oxide as Highly Active and Sulfur Tolerant Electrocatalyst for Solid Oxide Fuel Cells. <i>Energy Procedia</i> , <b>2019</b> , 158, 1660-1665	2.3	3

43	Model based evaluation of the electrochemical reaction sites in solid oxide fuel cell electrodes. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 8439-8459	6.7	3
42	Advanced Cathodes for Solid Oxide Fuel Cells <b>2013</b> , 49-95		3
41	In situ templating synthesis of conic Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> perovskite at elevated temperature. <i>Bulletin of Materials Science</i> , <b>2009</b> , 32, 407-412	1.7	3
40	BaCe <sub>0.16</sub> Y <sub>0.04</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> nanocomposite: A new high-performance cobalt-free triple-conducting cathode for protonic ceramic fuel cells operating at reduced temperatures. <i>Journal of Materials Chemistry A</i> ,	13	3
39	Rational design of ZnO-zeolite imidazole hybrid nanoparticles with reduced charge recombination for enhanced photocatalysis.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 614, 538-546	9.3	3
38	New perovskite membrane with improved sintering and self-reconstructed surface for efficient hydrogen permeation. <i>Journal of Membrane Science</i> , <b>2021</b> , 620, 118980	9.6	3
37	Electroless deposition of Co(Mn)/Pd-decorator into Y <sub>2</sub> O <sub>3</sub> -stabilized ZrO <sub>2</sub> scaffold as cathodes for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 53-63	6.7	3
36	Perovskite Oxides in Catalytic Combustion of Volatile Organic Compounds: Recent Advances and Future Prospects. <i>Energy and Environmental Materials</i> ,	13	3
35	Novel monoclinic ABO <sub>4</sub> oxide with single-crystal structure as next generation electrocatalyst for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 130492	14.7	3
34	Pine-Leaf-Shaped δ-Fe <sub>2</sub> O <sub>3</sub> Micro/Nanostructures with a Preferred Orientation along the (110) Plane for Efficient Reversible Lithium Storage. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2278-2285	4.3	3
33	Realizing Simultaneous Detrimental Reactions Suppression and Multiple Benefits Generation from Nickel Doping toward Improved Protonic Ceramic Fuel Cell Performance.. <i>Small</i> , <b>2022</b> , e2200450	11	3
32	Textured Sr <sub>1-x</sub> Nb <sub>x</sub> CoFeO Thin Film Cathodes for IT-SOFCs. <i>Materials</i> , <b>2019</b> , 12,	3.5	2
31	A strategy to reduce the impact of tar on a Ni-YSZ anode of solid oxide fuel cells. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 3038-3048	4.5	2
30	Synthesis of Flake-Shaped NiO/YSZ Particles for High-Porosity Anode of Solid Oxide Fuel Cell. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3666-3670	3.8	2
29	A Comparative Structure and Performance Study of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-δ</sub> and La <sub>1-x</sub> Sr <sub>x</sub> Co <sub>0.9</sub> Nb <sub>0.1</sub> O <sub>3-δ</sub> (x=0.5, 0.7, 0.9, and 1.0) Oxygen Permeable Mixed Conductors. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, H299	3.9	2
28	Stabilizing Li Anodes in I Steam to Tackle the Shuttling-Induced Depletion of an Iodide/Triiodide Redox Mediator in Li-O Batteries with Suppressed Li Dendrite Growth. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 53859-53867	9.5	2
27	Recent progresses and remaining issues on the ultrathin catalyst layer design strategy for high-performance proton exchange membrane fuel cell with further reduced Pt loadings: A review. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 47, 1529-1529	6.7	2
26	Perovskite Materials in Electrocatalysis. <i>Materials Horizons</i> , <b>2020</b> , 209-250	0.6	2

25	Cathodes for IT-SOFCs. <i>Green Chemistry and Sustainable Technology</i> , <b>2016</b> , 59-126	1.1	2
24	Phase and morphology engineering of porous cobalt-copper sulfide as a bifunctional oxygen electrode for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 18329-18337	13	2
23	Protective Effect of Blood Cora Polysaccharides on H9c2 Rat Heart Cells Injury Induced by Oxidative Stress by Activating Nrf2/HO-1 Signal Pathway. <i>Frontiers in Nutrition</i> , <b>2021</b> , 8, 632161	6.2	2
22	Utilizing the charge-transfer model to design promising electrocatalysts. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 30, 100805	7.2	2
21	Low thermal-expansion and high proton uptake for protonic ceramic fuel cell cathode. <i>Journal of Power Sources</i> , <b>2022</b> , 530, 231321	8.9	2
20	One Pot-Synthesized Ag/Ag-Doped CeO Nanocomposite with Rich and Stable 3D Interfaces and Ce for Efficient Carbon Dioxide Electroreduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	2
19	Protonic ceramic materials for clean and sustainable energy: advantages and challenges. <i>International Materials Reviews</i> ,1-29	16.1	2
18	Realizing Interfacial Electron/Hole Redistribution and Superhydrophilic Surface through Building Heterostructural $\text{ZnMnCoSe-NiSe}$ Nanograins for Efficient Overall Water Splittings.. <i>Small Methods</i> , <b>2022</b> , e2200459	12.8	2
17	Realizing robust and efficient acidic oxygen evolution by electronic modulation of 0D/2D CeO <sub>2</sub> quantum dots decorated SrIrO <sub>3</sub> nanosheets. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 315, 121579	21.8	2
16	Anodes for IT-SOFCs. <i>Green Chemistry and Sustainable Technology</i> , <b>2016</b> , 127-175	1.1	1
15	CHAPTER 2:Electrolyte Materials for Solid Oxide Fuel Cells (SOFCs). <i>RSC Energy and Environment Series</i> ,26-55	0.6	1
14	A double-layer composite electrode based on SrSc <sub>0.2</sub> Co <sub>0.8</sub> O <sub>3</sub> perovskite with improved performance in intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7608-7617	6.7	1
13	Cobalt nanoparticles encapsulated in iron and nitrogen co-doped urchin-like porous carbons as an efficient bifunctional oxygen reversible catalyst for Zn-air batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 436, 135191	14.7	1
12	SrCo <sub>0.4</sub> Fe <sub>0.4</sub> Zr <sub>0.1</sub> Y <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> A new CO <sub>2</sub> tolerant cathode for proton-conducting solid oxide fuel cells. <i>Renewable Energy</i> , <b>2022</b> , 185, 8-16	8.1	1
11	Microwave plasma rapid heating towards robust cathode/electrolyte interface for solid oxide fuel cells. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 607, 53-60	9.3	1
10	Ternary BaCaZrTi Perovskite Oxide Piezocatalysts Dancing for Efficient Hydrogen Peroxide Generation. <i>Nano Energy</i> , <b>2022</b> , 107251	17.1	1
9	Engineering anion defect in perovskite oxyfluoride cathodes enables proton involved oxygen reduction reaction for protonic ceramic fuel cells. <i>Separation and Purification Technology</i> , <b>2022</b> , 290, 120844	8.2	1
8	Regulating the Interfacial Electron Density of LaSrMnCoO/RuO for Efficient and Low-Cost Bifunctional Oxygen Electrocatalysts and Rechargeable Zn-Air Batteries.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 61098-61106	9.5	1

7	Microscale-decoupled charge-discharge reaction sites for an air electrode with abundant triple-phase boundary and enhanced cycle stability of Zn-Air batteries. <i>Journal of Power Sources</i> , <b>2022</b> , 525, 231108	8.9	o
6	A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zinc-Air Batteries. <i>Small</i> , <b>2021</b> , e2105604	11	o
5	Perovskite Materials in Photovoltaics. <i>Materials Horizons</i> , <b>2020</b> , 175-207	0.6	o
4	Antiperovskite FeNNi <sub>2</sub> Co and FeNNi <sub>3</sub> nanosheets as a non-enzymatic electrochemical sensor for highly sensitive detection of glucose. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 884, 115072	4.1	o
3	Electrolyte Materials for IT-SOFCs. <i>Green Chemistry and Sustainable Technology</i> , <b>2016</b> , 15-57	1.1	
2	A No Chamber Fuel Cell Using Ethanol as Flame. <i>Ceramic Engineering and Science Proceedings</i> , <b>2010</b> , 53-62.	1.1	
1	A Novel Method to Purposely Modify the Anode/Electrolyte Interface in Solid Oxide Fuel Cells. <i>ChemistrySelect</i> , <b>2019</b> , 4, 13835-13840	1.8	