

Kongfa Chen

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155
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h-index

48
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163
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4,022
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
155	Failure mechanism of (La,Sr)MnO ₃ oxygen electrodes of solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10541-10549	6.7	137
154	Review Materials Degradation of Solid Oxide Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F3070-F3083	3.9	115
153	Performance of an anode-supported SOFC with anode functional layers. <i>Electrochimica Acta</i> , 2008 , 53, 7825-7830	6.7	101
152	Characterization of GdBaCo ₂ O ₅ + λ cathode for IT-SOFCs. <i>Journal of Alloys and Compounds</i> , 2008 , 454, 274-279	5.7	84
151	Performance stability and degradation mechanism of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ λ cathodes under solid oxide fuel cells operation conditions. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15868-15876	6.7	70
150	Performance and stability of (La,Sr)MnO ₃ /ZrO ₂ /CrO ₂ composite oxygen electrodes under solid oxide electrolysis cell operation conditions. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10517-10525	6.7	67
149	Polarization-Induced Interface and Sr Segregation of in Situ Assembled LaSrCoFeO Electrodes on YO-ZrO Electrolyte of Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31729-31737	9.5	62
148	A novel layered perovskite as symmetric electrode for direct hydrocarbon solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017 , 342, 313-319	8.9	61
147	Effect of composite pore-former on the fabrication and performance of anode-supported membranes for SOFCs. <i>Journal of Membrane Science</i> , 2008 , 318, 445-451	9.6	59
146	Screen-printed thin YSZ films used as electrolytes for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2006 , 159, 1048-1050	8.9	59
145	Development of yttria-stabilized zirconia thin films via slurry spin coating for intermediate-to-low temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2006 , 160, 436-438	8.9	58
144	Preparation of YSZ film by EPD and its application in SOFCs. <i>Journal of Alloys and Compounds</i> , 2006 , 424, 299-303	5.7	56
143	Direct application of cobaltite-based perovskite cathodes on the yttria-stabilized zirconia electrolyte for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17678-17685	13	55
142	Low temperature solid oxide fuel cells based on Sm _{0.2} Ce _{0.8} O _{1.9} films fabricated by slurry spin coating. <i>Journal of Power Sources</i> , 2006 , 159, 637-640	8.9	53
141	Highly active and stable Er _{0.4} Bi _{1.6} O ₃ decorated La _{0.76} Sr _{0.19} MnO ₃ + λ nanostructured oxygen electrodes for reversible solid oxide cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12149-12157	13	50
140	Nanostructured (Ba,Sr)(Co,Fe)O ₃ λ Impregnated (La,Sr)MnO ₃ Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B1033	3.9	48
139	Fabrication and performance of anode-supported YSZ films by slurry spin coating. <i>Solid State Ionics</i> , 2007 , 177, 3455-3460	3.3	48

138	Why solid oxide cells can be reversibly operated in solid oxide electrolysis cell and fuel cell modes?. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31308-15	3.6	47
137	Highly chromium contaminant tolerant BaO infiltrated La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathodes for solid oxide fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4870-4	3.6	46
136	Development of LSM-based cathodes for solid oxide fuel cells based on YSZ films. <i>Journal of Power Sources</i> , 2007 , 172, 742-748	8.9	45
135	Suppressed Sr segregation and performance of directly assembled La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} oxygen electrode on Y ₂ O ₃ -ZrO ₂ electrolyte of solid oxide electrolysis cells. <i>Journal of Power Sources</i> , 2018 , 384, 125-135	8.9	44
134	Enhanced electrochemical performance and stability of (La,Sr)MnO ₃ [(Gd,Ce)O ₂] oxygen electrodes of solid oxide electrolysis cells by palladium infiltration. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1301-1310	6.7	44
133	Enhanced performance of solid oxide fuel cells with Ni/CeO ₂ modified La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O _{3-δ} anodes. <i>Journal of Power Sources</i> , 2009 , 190, 326-330	8.9	43
132	Smart utilization of cobaltite-based double perovskite cathodes on barrier-layer-free zirconia electrolyte of solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 19019-19025	13	41
131	Reasons for the high stability of nano-structured (La,Sr)MnO ₃ infiltrated Y ₂ O ₃ /ZrO ₂ composite oxygen electrodes of solid oxide electrolysis cells. <i>Electrochemistry Communications</i> , 2012 , 19, 119-122	5.1	41
130	Effect of SDC-impregnated LSM cathodes on the performance of anode-supported YSZ films for SOFCs. <i>Journal of Power Sources</i> , 2007 , 167, 84-89	8.9	41
129	Highly Stable Sr-Free Cobaltite-Based Perovskite Cathodes Directly Assembled on a Barrier-Layer-Free Y ₂ O ₃ -ZrO ₂ Electrolyte of Solid Oxide Fuel Cells. <i>ChemSusChem</i> , 2017 , 10, 993-1003	8.3	40
128	Performance and structural stability of Gd _{0.2} Ce _{0.8} O _{1.9} infiltrated La _{0.8} Sr _{0.2} MnO ₃ nano-structured oxygen electrodes of solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 10349-10358	6.7	40
127	Chromium deposition and poisoning at La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} oxygen electrodes of solid oxide electrolysis cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1601-9	3.6	39
126	Study on Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} /Sm _{0.5} Sr _{0.5} CoO _{3-δ} composite cathode materials for IT-SOFCs. <i>Journal of Alloys and Compounds</i> , 2008 , 465, 274-279	5.7	38
125	Preparation of Sm _{0.2} Ce _{0.8} O _{1.9} membranes on porous substrates by a slurry spin coating method and its application in IT-SOFC. <i>Journal of Membrane Science</i> , 2006 , 286, 255-259	9.6	37
124	Sulfur Deposition and Poisoning of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Cathode Materials of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1133-F1139	3.9	36
123	Development of (Gd,Ce)O ₂ -Impregnated (La,Sr)MnO ₃ Anodes of High Temperature Solid Oxide Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, P89	3.9	36
122	YSZ films fabricated by a spin smoothing technique and its application in solid oxide fuel cell. <i>Journal of Power Sources</i> , 2007 , 163, 957-959	8.9	36
121	Nb and Pd co-doped La _{0.57} Sr _{0.38} Co _{0.19} Fe _{0.665} Nb _{0.095} Pd _{0.05} O _{3-δ} as a stable, high performance electrode for barrier-layer-free Y ₂ O ₃ -ZrO ₂ electrolyte of solid oxide fuel cells. <i>Journal of Power Sources</i> , 2018 , 378, 433-442	8.9	35

120	Fabrication and performance of membrane solid oxide fuel cells with La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ impregnated anodes. <i>Journal of Power Sources</i> , 2010 , 195, 1793-1798	8.9	35
119	Enhanced performance of a single-chamber solid oxide fuel cell with an SDC-impregnated cathode. <i>Journal of Power Sources</i> , 2007 , 167, 58-63	8.9	34
118	Effects of anode surface modification on the performance of low temperature SOFCs. <i>Journal of Power Sources</i> , 2007 , 171, 489-494	8.9	33
117	Effect of Boron Deposition and Poisoning on the Surface Exchange Properties of LSCF Electrode Materials of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F682-F686	3.9	31
116	Impact of volatile boron species on the microstructure and performance of nano-structured (Gd,Ce)O ₂ infiltrated (La,Sr)MnO ₃ cathodes of solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2012 , 23, 129-132	5.1	31
115	Effect of Volatile Boron Species on the Electrocatalytic Activity of Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F301-F308	3.9	31
114	Novel polymer fibers prepared by electrospinning for use as the pore-former for the anode of solid oxide fuel cell. <i>Electrochimica Acta</i> , 2010 , 55, 5538-5544	6.7	31
113	Effect of temperature on the chromium deposition and poisoning of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} cathodes of solid oxide fuel cells. <i>Electrochimica Acta</i> , 2014 , 139, 173-179	6.7	30
112	Characteristics of NiO-YSZ anode based on NiO particles synthesized by the precipitation method. <i>Journal of Alloys and Compounds</i> , 2008 , 454, 447-453	5.7	30
111	A FIB-STEM Study of Strontium Segregation and Interface Formation of Directly Assembled La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Cathode on Y ₂ O ₃ -ZrO ₂ Electrolyte of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F417-F429	3.9	29
110	Electrochemical performance of (Ba _{0.5} Sr _{0.5}) _{0.9} Sm _{0.1} Co _{0.8} Fe _{0.2} O _{3-δ} as an intermediate temperature solid oxide fuel cell cathode. <i>Journal of Power Sources</i> , 2007 , 165, 97-101	8.9	29
109	Study of slurry spin coating technique parameters for the fabrication of anode-supported YSZ Films for SOFCs. <i>Journal of Power Sources</i> , 2007 , 164, 17-23	8.9	29
108	Ag decorated (Ba,Sr)(Co,Fe)O ₃ cathodes for solid oxide fuel cells prepared by electroless silver deposition. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2413-2420	6.7	28
107	Effect of Volatile Boron Species on the Electrocatalytic Activity of Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F183-F190	3.9	28
106	Chromium deposition and poisoning of La _{0.8} Sr _{0.2} MnO ₃ oxygen electrodes of solid oxide electrolysis cells. <i>Faraday Discussions</i> , 2015 , 182, 457-76	3.6	27
105	A model for the delamination kinetics of La _{0.8} Sr _{0.2} MnO ₃ oxygen electrodes of solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13914-13920	6.7	27
104	Surface Segregation in Solid Oxide Cell Oxygen Electrodes: Phenomena, Mitigation Strategies and Electrochemical Properties. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 730-765	29.3	27
103	New zinc and bismuth doped glass sealants with substantially suppressed boron deposition and poisoning for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18655-18665	13	26

102	Redox of Ni/YSZ anodes and oscillatory behavior in single-chamber SOFC under methane oxidation conditions. <i>Electrochimica Acta</i> , 2011 , 56, 6688-6695	6.7	26
101	Solid oxide fuel cells with dense yttria-stabilized zirconia electrolyte membranes fabricated by a dry pressing process. <i>Journal of Power Sources</i> , 2006 , 160, 1221-1224	8.9	26
100	Feasibility of Direct Utilization of Biomass Gasification Product Gas Fuels in Tubular Solid Oxide Fuel Cells for On-Site Electricity Generation. <i>Energy & Fuels</i> , 2016 , 30, 1849-1857	4.1	25
99	Boron deposition and poisoning of La _{0.8} Sr _{0.2} MnO ₃ oxygen electrodes of solid oxide electrolysis cells under accelerated operation conditions. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1419-1431	6.7	24
98	Electrochemically Driven Deactivation and Recovery in PrBaCo ₂ O _{5+δ} Oxygen Electrodes for Reversible Solid Oxide Fuel Cells. <i>ChemSusChem</i> , 2016 , 9, 2443-50	8.3	24
97	In Situ Formation of ErBiO Protective Layer at Cobaltite Cathode/YO-ZrO Electrolyte Interface under Solid Oxide Fuel Cell Operation Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40549-40559	8.5	24
96	A fundamental study of infiltrated CeO ₂ and (Gd,Ce)O ₂ nanoparticles on the electrocatalytic activity of Pt cathodes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2013 , 233, 87-94	3.3	23
95	Effect of SO ₂ Poisoning on the Electrochemical Activity of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F514-F524	3.9	22
94	Cr deposition on porous La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} electrodes of solid oxide cells under open circuit condition. <i>Solid State Ionics</i> , 2015 , 281, 29-37	3.3	22
93	Novel in situ method (vacuum assisted electroless plating) modified porous cathode for solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2008 , 10, 844-847	5.1	22
92	Anode-Supported Micro-SOFC Stacks Operated under Single-Chamber Conditions. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B588	3.9	22
91	Amino-functionalized mesoporous silica based polyethersulfone-polyvinylpyrrolidone composite membranes for elevated temperature proton exchange membrane fuel cells. <i>RSC Advances</i> , 2016 , 6, 86575-86585	3.7	22
90	Improved gas diffusion within microchanneled cathode supports of SOECs for steam electrolysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 19829-19835	6.7	21
89	In situ assembled La _{0.8} Sr _{0.2} MnO ₃ cathodes on a Y ₂ O ₃ -ZrO ₂ electrolyte of solid oxide fuel cells □ interface and electrochemical activity. <i>RSC Advances</i> , 2016 , 6, 99211-99219	3.7	20
88	High performance nanostructured bismuth oxide-cobaltite as a durable oxygen electrode for reversible solid oxide cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6510-6520	13	19
87	Effect of Volatile Boron Species on the Microstructure and Composition of (La,Sr)MnO ₃ and (La,Sr)(Co,Fe)O ₃ Cathode Materials of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F1033-F1039	3.9	19
86	Vacuum-assisted electroless copper plating on Ni/(Sm,Ce)O ₂ anodes for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7661-7669	6.7	19
85	Feasibility of tubular solid oxide fuel cells directly running on liquid biofuels. <i>Chemical Engineering Science</i> , 2016 , 154, 108-118	4.4	19

84	Sm _{0.5} Sr _{0.5} CoO ₃ infiltrated Ce _{0.9} Gd _{0.1} O ₂ composite cathodes for high performance protonic ceramic fuel cells. <i>Journal of Power Sources</i> , 2016 , 333, 24-29	8.9	19
83	Evaluation of (Ba _{0.5} Sr _{0.5}) _{0.85} Gd _{0.15} Co _{0.8} Fe _{0.2} O ₃ cathode for intermediate temperature solid oxide fuel cell. <i>Ceramics International</i> , 2012 , 38, 3039-3046	5.1	18
82	A FIB-STEM Study of La _{0.8} Sr _{0.2} MnO ₃ Cathode and Y ₂ O ₃ -ZrO ₂ /Gd ₂ O ₃ -CeO ₂ Electrolyte Interfaces of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F1437-F1447	3.9	17
81	Remarkable adsorption performance of MOF-199 derived porous carbons for benzene vapor. <i>Environmental Research</i> , 2020 , 184, 109323	7.9	17
80	Performance and stability of nano-structured Pd and Pd _{0.95} M _{0.05} (M = Mn, Co, Ce, and Gd) infiltrated Y ₂ O ₃ -ZrO ₂ oxygen electrodes of solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16569-16578	6.7	17
79	Combined Cr and S poisoning of La _{0.8} Sr _{0.2} MnO ₃ - δ (LSM) cathode of solid oxide fuel cells. <i>Electrochimica Acta</i> , 2019 , 312, 202-212	6.7	16
78	Performance degradation of SmBaCo ₂ O ₅ + δ cathode induced by chromium deposition for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2015 , 174, 327-331	6.7	15
77	A Novel Cell-Array Design for Single Chamber SOFC Microstack. <i>Fuel Cells</i> , 2009 , 9, 717-721	2.9	15
76	NiO+YSZ anode substrate for screen-printing fabrication of YSZ electrolyte film in solid oxide fuel cell. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 164-168	3.9	15
75	A La _{0.8} Sr _{0.2} MnO ₃ /La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ core-shell structured cathode by a rapid sintering process for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7246-7251	6.7	14
74	Mechanism and Kinetics of SO ₂ Poisoning on the Electrochemical Activity of La _{0.8} Sr _{0.2} MnO ₃ Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F771-F780	3.9	14
73	Effect of Volatile Boron Species on the Electrocatalytic Activity of Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1163-F1170	3.9	14
72	Paper-Fibres Used as a Pore-Former for Anode Substrate of Solid Oxide Fuel Cell. <i>Fuel Cells</i> , 2011 , 11, 172-177	2.9	14
71	Interface formation and Mn segregation of directly assembled La _{0.8} Sr _{0.2} MnO ₃ cathode on Y ₂ O ₃ -ZrO ₂ and Gd ₂ O ₃ -CeO ₂ electrolytes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2018 , 325, 176-188	3.3	14
70	Accelerating effect of polarization on electrode/electrolyte interface generation and electrocatalytic performance of Er _{0.4} Bi _{1.6} O ₃ decorated Sm _{0.95} CoO ₃ - δ cathodes. <i>Journal of Power Sources</i> , 2020 , 465, 228281	8.9	13
69	Effect of Pd doping on the activity and stability of directly assembled La _{0.95} Co _{0.19} Fe _{0.76} Pd _{0.05} O ₃ - δ cathodes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2018 , 316, 38-46	3.3	13
68	Effect of the Cell Distance on the Cathode in Single Chamber SOFC Short Stack. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1253	3.9	13
67	Behavior of 3mol% yttria-stabilized tetragonal zirconia polycrystal film prepared by slurry spin coating. <i>Journal of Power Sources</i> , 2009 , 186, 128-132	8.9	13

66	Improvement of output performance of solid oxide fuel cell by optimizing Ni/samaria-doped ceria anode functional layer. <i>Journal of Power Sources</i> , 2008 , 185, 153-158	8.9	13
65	A comparative study of surface segregation and interface of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.2} B _{0.3} electrode on GDC and YSZ electrolytes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2606-2616	6.7	13
64	Synthesis of a novel silicon-containing epoxy resin and its effect on flame retardancy, thermal, and mechanical properties of thermosetting resins. <i>Materials Today Communications</i> , 2019 , 19, 186-195	2.5	12
63	3D-Hierarchical porous nickel sculptured by a simple redox process and its application in high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20709-20719	13	12
62	Origin of low frequency inductive impedance loops of O ₂ reduction reaction of solid oxide fuel cells. <i>Solid State Ionics</i> , 2016 , 291, 33-41	3.3	12
61	Molten salt synthesis of Nb-doped (La, Sr)FeO ₃ as the oxygen electrode for reversible solid oxide cells. <i>Materials Letters</i> , 2019 , 245, 114-117	3.3	11
60	A Fundamental Study of Boron Deposition and Poisoning of La _{0.8} Sr _{0.2} MnO ₃ Cathode of Solid Oxide Fuel Cells under Accelerated Conditions. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F1282-F1291	3.9	11
59	Cellular Structure Fabricated on Ni Wire by a Simple and Cost-Effective Direct-Flame Approach and Its Application in Fiber-Shaped Supercapacitors. <i>ChemSusChem</i> , 2018 , 11, 985-993	8.3	11
58	Active, durable bismuth oxide-manganite composite oxygen electrodes: Interface formation induced by cathodic polarization. <i>Journal of Power Sources</i> , 2018 , 397, 16-24	8.9	11
57	Study on impedance spectra of La _{0.7} Sr _{0.3} MnO ₃ and Sm _{0.2} Ce _{0.8} O _{1.9} -impregnated La _{0.7} Sr _{0.3} MnO ₃ cathode in single chamber fuel cell condition. <i>Electrochimica Acta</i> , 2009 , 54, 4726-4730	6.7	11
56	Performance evolution of NiO/yttria-stabilized zirconia anodes fabricated at different compaction pressures. <i>Electrochimica Acta</i> , 2009 , 54, 1355-1361	6.7	11
55	Experimental study on effect of compaction pressure on performance of SOFC anodes. <i>Journal of Power Sources</i> , 2008 , 180, 301-308	8.9	11
54	Cyclic polarization enhances the operating stability of La _{0.57} Sr _{0.38} Co _{0.18} Fe _{0.72} Nb _{0.1} O ₃ oxygen electrode of reversible solid oxide cells. <i>Journal of Power Sources</i> , 2018 , 404, 73-80	8.9	11
53	Effect of Gd ₂ O ₃ doping on structure and boron volatility of borosilicate glass sealants in solid oxide fuel cells: A study on the La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ -LSCF cathode. <i>Journal of Power Sources</i> , 2018 , 383, 34-41	8.9	10
52	Sulphur poisoning of solid oxide electrolysis cell anodes. <i>Electrochimica Acta</i> , 2018 , 269, 188-195	6.7	10
51	Improving the sealing performance of glass-ceramics for SOFCs applications by a unique composite approach: A study on Na ₂ O-SiO ₂ glass-ceramic system. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4488-4494	6	10
50	Positive Effect of Incorporating Er _{0.4} Bi _{1.6} O ₃ on the Performance and Stability of La ₂ NiO ₄ + Cathode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F796-F804	3.9	10
49	A Configuration for Improving the Performance of Coplanar Single-Chamber Solid Oxide Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, B14		10

48	Study on the binder-free asymmetric supercapacitors with nano-IrO ₂ -ZnO/Ti as anode and RuO ₂ MoO ₃ /Ti as cathode in H ₂ SO ₄ electrolyte. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153385	5.7	10
47	Study on the enhanced electron-hole separation capability of IrZnO/Ti electrodes with high photoelectrocatalysis efficiency. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122488	12.8	9
46	Improving the thermal stability of phosphor in a white light-emitting diode (LED) by glass-ceramics: Effect of Al ₂ O ₃ dopant. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2005-2009	6	9
45	Improving sealing performance of borosilicate glass-ceramics for solid oxide fuel cell applications: Effect of AlN. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 4194-4201	6	8
44	Effect of NbO doping on improving the thermo-mechanical stability of sealing interfaces for solid oxide fuel cells. <i>Scientific Reports</i> , 2017 , 7, 5355	4.9	8
43	Recent Progress in Pd-Based Nanocatalysts for Selective Hydrogenation.. <i>ACS Omega</i> , 2022 , 7, 17-31	3.9	8
42	Effects of Nb ₂ O ₅ and Gd ₂ O ₃ doping on boron volatility and activity between glass seals and lanthanum-containing cathode. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1547-1555	6	7
41	Significant Promotion Effect of Bi ₂ O ₃ on the Activity and Stability of Directly Assembled Lanthanum Manganite Based Cathodes of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F1471-F1477	3.9	7
40	Ni/SDC Nanoparticles Modified La _{0.75} Sr _{0.25} Cr _{0.5} Fe _{0.5} O ₃ as Anodes for Solid Oxide Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B161		7
39	Facile co-synthesis and utilization of ultrafine and highly active PrBa _{0.8} Ca _{0.2} Co ₂ O ₅ +Gd _{0.2} Ce _{0.8} O _{1.9} composite cathodes for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2021 , 139673	6.7	7
38	Effect of characteristics of (Sm,Ce)O ₂ powder on the fabrication and performance of anode-supported solid oxide fuel cells. <i>Materials Research Bulletin</i> , 2012 , 47, 121-129	5.1	6
37	Enhanced Performance of Solid Oxide Fuel Cell by Manipulating the Orientation of Cylindrical Pores in Anode Substrate. <i>Fuel Cells</i> , 2012 , 12, 41-46	2.9	6
36	SmBaCo ₂ O ₅ +□ as High Efficient Oxygen Electrode of Solid Oxide Electrolysis Cells. <i>ECS Transactions</i> , 2013 , 57, 3189-3196	1	6
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29	In situ fabrication of cellular architecture on silver metals using methane/oxygen gas mixture and its application for energy storage. <i>Electrochimica Acta</i> , 2018 , 280, 25-32	6.7	4
28	Effects of annealing holding time on capacitance performance of RuO ₂ /TiO ₂ /graphene/Ti electrodes. <i>Current Applied Physics</i> , 2019 , 19, 835-841	2.6	3
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17	Verification and applicability of symmetric cell configuration for mechanistic study of oxygen electrode reactions of solid oxide cells. <i>Solid State Ionics</i> , 2020 , 357, 115457	3.3	2
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14	Antiresonance and its application in tri-quantum-dot systems. <i>Indian Journal of Physics</i> , 2021 , 95, 235-241.4		1
13	Flower-Like Nanostructured ZnCo ₂ O ₄ /RuO ₂ Electrode Materials for High Performance Asymmetric Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 120553	3.9	1

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11	Tuning defect nonequilibrium of brownmillerite $Sr_{1+x}Y_{2-x}O_{4+\delta}$ for rich-oxygen-vacancy direct ammonia solid oxide fuel cells cathode. <i>Journal of Power Sources</i> , 2022 , 524, 231078	8.9	0
10	Defect-induced pyrochlore $Pr_2Zr_2O_7$ cathode rich in oxygen vacancies for direct ammonia solid oxide fuel cells. <i>Journal of Power Sources</i> , 2022 , 520, 230847	8.9	0
9	Flame-sculptured micron-porous silver wire for fiber-shaped energy storage and surface-enhanced Raman scattering. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153523	5.7	0
8	Transport through several four-quantum-dot topological structures. <i>Modern Physics Letters B</i> , 2021 , 35, 2150393	1.6	0
7	A robust glass-ceramic sealing material for solid oxide fuel cells: Effect of $Ba_3Nb_{10}O_{28}$ phase. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1540-1545	6	0
6	Temperature-dependent structural behaviour of samarium cobalt oxide. <i>Powder Diffraction</i> , 2017 , 32, S38-S42	1.8	
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4	Photon-assisted spin transport characteristics of A-B interferometer embedded with three quantum dots. <i>Physica B: Condensed Matter</i> , 2022 , 413700	2.8	
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2	Spin filtering and magnetically-controlled quantum switch in multiple triangular rings consisting of quantum dots. <i>Modern Physics Letters B</i> , 2021 , 35, 2150177	1.6	
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