

# Shanwen Tao

## List of Publications by Citations

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10,399  
ext. citations

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L-index

#	Paper	IF	Citations
160	A redox-stable efficient anode for solid-oxide fuel cells. <i>Nature Materials</i> , <b>2003</b> , 2, 320-3	27	986
159	Ammonia and related chemicals as potential indirect hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 1482-1494	6.7	613
158	Synthesis and Characterization of $(\text{La}_{0.75}\text{Sr}_{0.25})\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-\delta}$ a Redox-Stable, Efficient Perovskite Anode for SOFCs. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A252	3.9	336
157	A Stable, Easily Sintered Proton-Conducting Oxide Electrolyte for Moderate-Temperature Fuel Cells and Electrolyzers. <i>Advanced Materials</i> , <b>2006</b> , 18, 1581-1584	24	319
156	A symmetrical solid oxide fuel cell demonstrating redox stable perovskite electrodes. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1603		319
155	Synthesis of ammonia directly from air and water at ambient temperature and pressure. <i>Scientific Reports</i> , <b>2013</b> , 3, 1145	4.9	277
154	Recent Progress in the Development of Anode Materials for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 314-332	21.8	276
153	A direct urea fuel cell to power from fertiliser and waste. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 438	35.4	248
152	Conductivity studies of dense yttrium-doped $\text{BaZrO}_3$ sintered at 1325°C. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 3493-3503	3.3	236
151	Solid-state electrochemical synthesis of ammonia: a review. <i>Journal of Solid State Electrochemistry</i> , <b>2011</b> , 15, 1845-1860	2.6	216
150	Advances in reforming and partial oxidation of hydrocarbons for hydrogen production and fuel cell applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 761-780	16.2	212
149	Preparation and characterisation of apatite-type lanthanum silicates by a sol-gel process. <i>Materials Research Bulletin</i> , <b>2001</b> , 36, 1245-1258	5.1	185
148	$\text{CuInS}_2$ quantum dots synthesized by a solvothermal route and their application as effective electron acceptors for hybrid solar cells. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7570		174
147	Catalytic Properties of the Perovskite Oxide $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Fe}_{0.5}\text{O}_{3-\delta}$ in Relation to Its Potential as a Solid Oxide Fuel Cell Anode Material. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 4116-4121	9.6	163
146	An Efficient Solid Oxide Fuel Cell Based upon Single-Phase Perovskites. <i>Advanced Materials</i> , <b>2005</b> , 17, 1734-1737	24	163
145	Discovery and characterization of novel oxide anodes for solid oxide fuel cells. <i>Chemical Record</i> , <b>2004</b> , 4, 83-95	6.6	156
144	Preparation and characterization of nanocrystalline $\beta\text{-Fe}_2\text{O}_3$ by a sol-gel process. <i>Sensors and Actuators B: Chemical</i> , <b>1997</b> , 40, 161-165	8.5	145

143	Preparation and gas-sensing properties of CuFe <sub>2</sub> O <sub>4</sub> at reduced temperature. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 77, 172-176	3.1	130
142	Preparation of nano-sized nickel as anode catalyst for direct urea and urine fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5021-5026	8.9	115
141	Urea-Based Fuel Cells and Electrocatalysts for Urea Oxidation. <i>Energy Technology</i> , <b>2016</b> , 4, 1329-1337	3.5	114
140	Electrical properties in La <sub>2</sub> Sr <sub>4</sub> Ti <sub>6</sub> O <sub>19</sub> δ: a potential anode for high temperature fuel cells. <i>Solid State Ionics</i> , <b>2003</b> , 159, 159-165	3.3	110
139	Metal-polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. <i>Nanoscale</i> , <b>2017</b> , 9, 5323-5328	7.7	104
138	Ammonia as a Suitable Fuel for Fuel Cells. <i>Frontiers in Energy Research</i> , <b>2014</b> , 2,	3.8	104
137	Direct Ammonia Alkaline Anion-Exchange Membrane Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, B83		104
136	Electrochemical synthesis of ammonia directly from air and water using a Li <sup>+</sup> /H <sup>+</sup> /NH <sub>4</sub> <sup>+</sup> mixed conducting electrolyte. <i>RSC Advances</i> , <b>2013</b> , 3, 18016	3.7	86
135	Methane oxidation at redox stable fuel cell electrode La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-δ</sub> . <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 21771-6	3.4	86
134	Electrochemical synthesis of ammonia based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Solid State Ionics</i> , <b>2011</b> , 201, 94-100	3.3	79
133	Structural origins of the differing grain conductivity values in BaZr <sub>0.9</sub> Y <sub>0.1</sub> O <sub>2.95</sub> and indication of novel approach to counter defect association. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3414		79
132	Ethanol-sensing characteristics of barium stannate prepared by chemical precipitation. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 71, 223-227	8.5	79
131	Synthesis of ammonia directly from wet air at intermediate temperature. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 152-153, 212-217	21.8	78
130	Electrochemical synthesis of ammonia based on a carbonate-oxide composite electrolyte. <i>Solid State Ionics</i> , <b>2011</b> , 182, 133-138	3.3	71
129	Salt-concentrated acetate electrolytes for a high voltage aqueous Zn/MnO <sub>2</sub> battery. <i>Energy Storage Materials</i> , <b>2020</b> , 28, 205-215	19.4	70
128	Electronic transport in the novel SOFC anode material La <sub>1-x</sub> Sr <sub>x</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-δ</sub> . <i>Solid State Ionics</i> , <b>2006</b> , 177, 2005-2008	3.3	70
127	An efficient ceramic-based anode for solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2007</b> , 171, 663-669	8.9	68
126	Phase Transition in Perovskite Oxide La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-δ</sub> —Observed by in Situ High-Temperature Neutron Powder Diffraction. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5453-5460	9.6	66

125	Directly growing hierarchical nickel-copper hydroxide nanowires on carbon fibre cloth for efficient electrooxidation of ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 218, 470-479	21.8	65
124	Electrodeposited NiCu bimetal on carbon paper as stable non-noble anode for efficient electrooxidation of ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 1101-1109	21.8	63
123	Novel Proton Conductors in the Layered Oxide Material $\text{Li}_x\text{Al}_{0.5}\text{Co}_{0.5}\text{O}_2$ . <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301683	21.8	62
122	Highly active NiBe double hydroxides as anode catalysts for electrooxidation of urea. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 4190-4196	3.6	60
121	Preparation of a hybrid $\text{Cu}_2\text{O}/\text{CuMoO}_4$ nanosheet electrode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17749-17756	13	58
120	Conductivity of $\text{SnP}_2\text{O}_7$ and In-doped $\text{SnP}_2\text{O}_7$ prepared by an aqueous solution method. <i>Solid State Ionics</i> , <b>2009</b> , 180, 148-153	3.3	55
119	Structural and Electrical Properties of the Perovskite Oxide $\text{Sr}_2\text{FeNbO}_6$ . <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2309-2316	9.6	53
118	Progress in inorganic cathode catalysts for electrochemical conversion of carbon dioxide into formate or formic acid. <i>Journal of Applied Electrochemistry</i> , <b>2017</b> , 47, 661-678	2.6	51
117	Ionic conductivity of amorphous lithium lanthanum titanate thin film. <i>Solid State Ionics</i> , <b>2005</b> , 176, 553-558	5.8	51
116	Optimization of Mixed Conducting Properties of $\text{Y}_2\text{O}_3/\text{ZrO}_2/\text{TiO}_2$ and $\text{Sc}_2\text{O}_3/\text{Y}_2\text{O}_3/\text{ZrO}_2/\text{TiO}_2$ Solid Solutions as Potential SOFC Anode Materials. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 165, 12-18	3.3	48
115	Recent progress in ammonia fuel cells and their potential applications. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 727-752	13	47
114	Electrochemical synthesis of ammonia from $\text{N}_2$ and $\text{H}_2\text{O}$ based on $(\text{Li},\text{Na},\text{K})_2\text{CO}_3/\text{Ce}_{0.8}\text{Gd}_{0.18}\text{Ca}_{0.02}\text{O}_2$ composite electrolyte and $\text{CoFe}_2\text{O}_4$ cathode. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 4322-4330	6.7	45
113	Anionic membrane and ionomer based on poly(2,6-dimethyl-1,4-phenylene oxide) for alkaline membrane fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 8272-8279	8.9	45
112	A high performance intermediate temperature fuel cell based on a thick oxide-carbonate electrolyte. <i>Journal of Power Sources</i> , <b>2009</b> , 194, 967-971	8.9	45
111	Recent progress in electrocatalysts with mesoporous structures for application in polymer electrolyte membrane fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16272-16287	13	45
110	A stable intermediate temperature fuel cell based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 582-585	5.1	42
109	Durability study of an intermediate temperature fuel cell based on an oxide-carbonate composite electrolyte. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6934-6940	6.7	42
108	Kinetics of the reactive sintering of kaolinite-aluminum hydroxide extrudate. <i>Ceramics International</i> , <b>2002</b> , 28, 479-486	5.1	41

107	Stable, easily sintered BaCe <sub>0.5</sub> Zr <sub>0.3</sub> Y <sub>0.16</sub> Zn <sub>0.04</sub> O <sub>3-δ</sub> electrolyte-based protonic ceramic membrane fuel cells with Ba <sub>0.5</sub> Sr <sub>0.5</sub> Zn <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-δ</sub> perovskite cathode. <i>Journal of Power Sources</i> , <b>2008</b> , 183, 479-484	8.9	39
106	Preparation and properties of Fe <sub>2</sub> O <sub>3</sub> and Y <sub>2</sub> O <sub>3</sub> doped Fe <sub>2</sub> O <sub>3</sub> by a sol-gel process. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 61, 33-38	8.5	39
105	Synthesis of NiMoS <sub>4</sub> for High-Performance Hybrid Supercapacitors. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2881-A2888	3.9	37
104	Synthesis of ammonia directly from wet air using new perovskite oxide La <sub>0.8</sub> Cs <sub>0.2</sub> Fe <sub>0.8</sub> Ni <sub>0.2</sub> O <sub>3-δ</sub> as catalyst. <i>Electrochimica Acta</i> , <b>2014</b> , 123, 582-587	6.7	37
103	Preparation of nanoporous nickelcopper sulfide on carbon cloth for high-performance hybrid supercapacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 273, 170-180	6.7	34
102	A perovskite oxide with high conductivities in both air and reducing atmosphere for use as electrode for solid oxide fuel cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 31839	4.9	34
101	Intermediate temperature stable proton conductors based upon SnP <sub>2</sub> O <sub>7</sub> , including additional H <sub>3</sub> PO <sub>4</sub> . <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7827		32
100	RuCo alloy bimodal nanoparticles embedded in N-doped carbon: a superior pH-universal electrocatalyst outperforms benchmark Pt for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12810-12820	13	31
99	Achieving Both High Selectivity and Current Density for CO <sub>2</sub> Reduction to Formate on Nanoporous Tin Foam Electrocatalysts. <i>ChemistrySelect</i> , <b>2016</b> , 1, 1711-1715	1.8	30
98	Electrochemical Synthesis of Ammonia Based on Co <sub>3</sub> Mo <sub>3</sub> N Catalyst and LiAlO <sub>2</sub> (Li,Na,K) <sub>2</sub> CO <sub>3</sub> Composite Electrolyte. <i>Electrocatalysis</i> , <b>2015</b> , 6, 286-294	2.7	29
97	Titanate cathodes with enhanced electrical properties achieved via growing surface Ni particles toward efficient carbon dioxide electrolysis. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 3137-43	3.6	29
96	Conductivity of a new pyrophosphate Sn <sub>0.9</sub> Sc <sub>0.1</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>1-δ</sub> prepared by an aqueous solution method. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 486, 380-385	5.7	28
95	Study on the structural and electrical properties of the double perovskite oxide SrMn <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3-δ</sub> . <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 2356-2360		28
94	Development and Recent Progress on Ammonia Synthesis Catalysts for Haber-Bosch Process. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2000043	1.6	28
93	Proton conductivity of potassium doped barium zirconates. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 93-98	3.3	27
92	Preparation of LiMO <sub>2</sub> (M=Co, Ni) cathode materials for intermediate temperature fuel cells by sol-gel processes. <i>Solid State Ionics</i> , <b>1999</b> , 124, 53-59	3.3	26
91	Synthesis of Li <sub>2</sub> Ni <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> as a high-performance positive electrode for asymmetric supercapacitors. <i>RSC Advances</i> , <b>2017</b> , 7, 13304-13311	3.7	25
90	Synthesis of ammonia directly from wet nitrogen using a redox stable La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Fe <sub>0.5</sub> O <sub>3-δ</sub> /Ce <sub>0.8</sub> Gd <sub>0.18</sub> Ca <sub>0.02</sub> O <sub>2-δ</sub> composite cathode. <i>RSC Advances</i> , <b>2015</b> , 5, 38977-38983	3.7	25

- 89 Electrochemical synthesis of ammonia from wet nitrogen via a dual-chamber reactor using La<sub>0.6</sub>Sr<sub>0.4</sub>Co<sub>0.2</sub>Fe<sub>0.8</sub>O<sub>3</sub>∕Ce<sub>0.8</sub>Gd<sub>0.18</sub>Ca<sub>0.02</sub>O<sub>2</sub>∕ composite cathode. *Catalysis Today*, **2017**, 286, 51-56 5.3 25
- 88 Investigation of the Mixed Conducting Oxide Sc<sub>2</sub>Y<sub>2</sub>Zr<sub>2</sub>Ti<sub>2</sub>O<sub>12</sub> as a Potential SOFC Anode Material. *Journal of the Electrochemical Society*, **2004**, 151, A497 3.9 25
- 87 Electrode materials for intermediate temperature proton-conducting fuel cells. *Journal of Applied Electrochemistry*, **2000**, 30, 153-157 2.6 25
- 86 Novel redox reversible oxide, Sr-doped cerium orthovanadate to metavanadate. *Journal of Materials Chemistry*, **2011**, 21, 525-531 24
- 85 Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. *Nanoscience and Nanotechnology Letters*, **2012**, 4, 814-820 0.8 24
- 84 Construction of porous N-doped graphene layer for efficient oxygen reduction reaction. *Chemical Engineering Science*, **2019**, 194, 36-44 4.4 24
- 83 Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with SrCo<sub>0.9</sub>Sb<sub>0.1</sub>O<sub>3</sub>∕ cubic perovskite cathode. *Journal of Power Sources*, **2008**, 185, 937-940 8.9 22
- 82 Synthesis and ionic conduction of apatite-type materials. *Ionics*, **2000**, 6, 389-396 2.7 22
- 81 High-temperature stability study of the oxygen-ion conductor La<sub>0.9</sub>Sr<sub>0.1</sub>Ga<sub>0.8</sub>Mg<sub>0.2</sub>O<sub>3</sub>∕. *Journal of Materials Chemistry*, **2000**, 10, 1829-1833 22
- 80 Preferentially oriented large antimony trisulfide single-crystalline cuboids grown on polycrystalline titania film for solar cells. *Communications Chemistry*, **2019**, 2, 6.3 21
- 79 Electrochemical synthesis of ammonia from wet nitrogen using La<sub>0.6</sub>Sr<sub>0.4</sub>Fe<sub>0.8</sub>Ce<sub>0.8</sub>Gd<sub>0.18</sub>Ca<sub>0.02</sub>O<sub>2</sub>∕ composite cathode. *RSC Advances*, **2014**, 4, 18749-18754 3.7 21
- 78 Efficient CO<sub>2</sub> electrolysis with scandium doped titanate cathode. *International Journal of Hydrogen Energy*, **2017**, 42, 8197-8206 6.7 20
- 77 High ionic conductivity in a LiFeO<sub>2</sub>-LiAlO<sub>2</sub> composite under H<sub>2</sub>/air fuel cell conditions. *Chemistry - A European Journal*, **2015**, 21, 1350-8 4.8 20
- 76 Perchlorate Based Oversaturated Gel Electrolyte for an Aqueous Rechargeable Hybrid Zn∕Ni Battery. *ACS Applied Energy Materials*, **2020**, 3, 2526-2536 6.1 20
- 75 Preparation of dense La<sub>0.5</sub>Sr<sub>0.5</sub>Fe<sub>0.8</sub>Cu<sub>0.2</sub>O<sub>3</sub>∕(Li,Na)<sub>2</sub>CO<sub>3</sub>∕LiAlO<sub>2</sub> composite membrane for CO<sub>2</sub> separation. *Journal of Membrane Science*, **2014**, 468, 380-388 9.6 20
- 74 Conductivity and redox stability of perovskite oxide SrFe<sub>1-x</sub>Ti<sub>x</sub>O<sub>3</sub>-∕(x ∕ 0.3). *Solid State Sciences*, **2015**, 46, 62-70 3.4 20
- 73 Electrochemical Synthesis of Ammonia Directly from Wet N<sub>2</sub> Using La<sub>0.6</sub>Sr<sub>0.4</sub>Fe<sub>0.8</sub>Cu<sub>0.2</sub>O<sub>3</sub>∕Ce<sub>0.8</sub>Gd<sub>0.18</sub>Ca<sub>0.02</sub>O<sub>2</sub>∕ composite Catalyst. *Journal of the Electrochemical Society*, **2014**, 161, H350-H354 3.9 19
- 72 Cost-effective solid oxide fuel cell prepared by single step co-press-firing process with lithiated NiO cathode. *Electrochemistry Communications*, **2010**, 12, 1589-1592 5.1 19

71	Promotion effect of proton-conducting oxide BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.2</sub> O <sub>3</sub> on the catalytic activity of Ni towards ammonia synthesis from hydrogen and nitrogen. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 17726-17736	6.7	19
70	Synthesis of ammonia directly from wet air using Sm <sub>0.6</sub> Ba <sub>0.4</sub> Fe <sub>0.8</sub> Cu <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> as the catalyst. <i>Faraday Discussions</i> , <b>2015</b> , 182, 353-63	3.6	17
69	Structure, conductivity and redox reversibility of Ca-doped cerium metavanadate. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8854		17
68	Proton conductivity of Al(H <sub>2</sub> PO <sub>4</sub> ) <sub>3</sub> ·3H <sub>3</sub> PO <sub>4</sub> composites at intermediate temperature. <i>Solid State Ionics</i> , <b>2009</b> , 180, 343-350	3.3	17
67	Structure and conductivity of strontium-doped cerium orthovanadates Ce <sub>1-x</sub> Sr <sub>x</sub> VO <sub>4</sub> (0 ≤ x ≤ 0.175). <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 1231-1238	3.3	16
66	Chemical stability study of Li <sub>2</sub> SO <sub>4</sub> on the operation condition of a H <sub>2</sub> /O <sub>2</sub> fuel cell. <i>Solid State Ionics</i> , <b>1999</b> , 116, 29-33	3.3	16
65	Recent development of perovskite oxide-based electrocatalysts and their applications in low to intermediate temperature electrochemical devices. <i>Materials Today</i> , <b>2021</b> ,	21.8	16
64	A simple high-performance matrix-free biomass molten carbonate fuel cell without CO <sub>2</sub> recirculation. <i>Science Advances</i> , <b>2016</b> , 2, e1600772	14.3	15
63	Ammonia Carbonate Fuel Cells Based on a Mixed NH <sub>4</sub> <sup>+</sup> /H <sup>+</sup> Ion Conducting Electrolyte. <i>ECS Electrochemistry Letters</i> , <b>2013</b> , 2, F37-F40		15
62	Fabrication of solid oxide fuel cell based on doped ceria electrolyte by one-step sintering at 800°C. <i>Solid State Ionics</i> , <b>2011</b> , 203, 47-51	3.3	15
61	Study on conductivity and redox stability of iron orthovanadate. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 614-618	4.4	15
60	Structure, conductivity and redox stability of solid solution Ce <sub>1-x</sub> Ca <sub>x</sub> VO <sub>4</sub> (0 ≤ x ≤ 0.4125). <i>Journal of Materials Science</i> , <b>2011</b> , 46, 316-326	4.3	15
59	Preparation and conductivity of solid high-proton conductor silica gels containing 12-tungstogermanic heteropoly acid. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 68, 161-165	3.1	15
58	Demonstration of direct conversion of CO <sub>2</sub> /H <sub>2</sub> O into syngas in a symmetrical proton-conducting solid oxide electrolyzer. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 1170-1175	6.7	15
57	A scandium-doped manganate anode for a proton-conducting solid oxide steam electrolyzer. <i>RSC Advances</i> , <b>2016</b> , 6, 641-647	3.7	14
56	Structural and electrochemical properties of the perovskite oxide Pr <sub>0.7</sub> Sr <sub>0.3</sub> Cr <sub>0.9</sub> Ni <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> . <i>Solid State Ionics</i> , <b>2008</b> , 179, 725-731	3.3	14
55	Interface formation and Mn segregation of directly assembled La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> cathode on Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> and Gd <sub>2</sub> O <sub>3</sub> -CeO <sub>2</sub> electrolytes of solid oxide fuel cells. <i>Solid State Ionics</i> , <b>2018</b> , 325, 176-188	3.3	14
54	Investigation of Perovskite Oxide SrCo <sub>0.8</sub> Cu <sub>0.1</sub> Nb <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> as a Cathode Material for Room Temperature Direct Ammonia Fuel Cells. <i>ChemSusChem</i> , <b>2019</b> , 12, 2788-2794	8.3	13

53	Growth of Compact CHNHPbI Thin Films Governed by the Crystallization in Pbi Matrix for Efficient Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8649-8658	9.5	13
52	An intermediate temperature fuel cell based on composite electrolyte of carbonate and doped barium cerate with SrFe <sub>0.7</sub> Mn <sub>0.2</sub> Mo <sub>0.1</sub> O <sub>3</sub> cathode. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 16546-16551	6.7	13
51	An intermediate temperature solid oxide fuel cell fabricated by one step co-press-sintering. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14643-14647	6.7	13
50	Structure and properties of nonstoichiometric mixed perovskites A <sub>3</sub> B <sub>2</sub> 1+xB <sub>2</sub> 1-xO <sub>9</sub> . <i>Solid State Ionics</i> , <b>2002</b> , 154-155, 659-667	3.3	13
49	Roadmap on inorganic perovskites for energy applications. <i>JPhys Energy</i> , <b>2021</b> , 3, 031502	4.9	13
48	Study on Direct Flame Solid Oxide Fuel Cell Using Flat Burner and Ethylene Flame. <i>ECS Transactions</i> , <b>2015</b> , 68, 1989-1999	1	12
47	Structure and conductivity of praseodymium and yttrium co-doped barium cerates. <i>Solid State Sciences</i> , <b>2013</b> , 17, 115-121	3.4	12
46	Improved stability and activity of Fe-based catalysts through strong metal support interactions due to extrinsic oxygen vacancies in Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2</sub> for the efficient synthesis of ammonia. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16676-16689	13	12
45	Introducing catalyst in alkaline membrane for improved performance direct borohydride fuel cells. <i>Journal of Power Sources</i> , <b>2018</b> , 374, 113-120	8.9	12
44	A fuel cell operating between room temperature and 250 °C based on a new phosphoric acid based composite electrolyte. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 6983-6987	8.9	11
43	Electricity Generation from Ammonia in Landfill Leachate by an Alkaline Membrane Fuel Cell Based on Precious-Metal-Free Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 12817-12824	8.3	11
42	The Proton and Oxygen Ion Conduction in a NaCl Based Composite Electrolyte. <i>Journal of Materials Science Letters</i> , <b>1999</b> , 18, 81-84		10
41	Acetate-based oversaturated gel electrolyte enabling highly stable aqueous Zn-MnO <sub>2</sub> battery. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 240-251	19.4	10
40	Redox-reversible perovskite ferrite cathode for high temperature solid oxide steam electrolyser. <i>Electrochimica Acta</i> , <b>2017</b> , 229, 48-54	6.7	9
39	Investigation of perovskite oxide SrFe <sub>0.8</sub> Cu <sub>0.1</sub> Nb <sub>0.1</sub> O <sub>3</sub> as cathode for a room temperature direct ammonia fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 26554-26564	6.7	9
38	Conductivity and redox stability of new double perovskite oxide Sr <sub>1.6</sub> K <sub>0.4</sub> Fe <sub>1+x</sub> Mo <sub>1-x</sub> O <sub>6</sub> (x = 0.2, 0.4, 0.6). <i>Journal of Materials Science</i> , <b>2016</b> , 51, 4115-4124	4.3	9
37	New Layered Proton-Conducting Oxides Li <sub>x</sub> Al <sub>0.6</sub> Co <sub>0.4</sub> O <sub>2</sub> and Li <sub>x</sub> Al <sub>0.7</sub> Co <sub>0.3</sub> O <sub>2</sub> . <i>ChemElectroChem</i> , <b>2014</b> , 1, 2098-2103	4.3	9
36	A stable NH <sub>4</sub> PO <sub>3</sub> -glass proton conductor for intermediate temperature fuel cells. <i>Solid State Ionics</i> , <b>2011</b> , 192, 108-112	3.3	9



35	Stability and conductivity study of NH <sub>4</sub> PO <sub>3</sub> BTfE composites at intermediate temperatures. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 874-877	5.7	9
34	Phase transition, thermal expansion and electrical properties of BiCu <sub>2</sub> VO <sub>6</sub> . <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 2927-2933	3.3	9
33	Chemical stability study of Li <sub>2</sub> SO <sub>4</sub> in a H <sub>2</sub> S/O <sub>2</sub> fuel cell. <i>Solid State Ionics</i> , <b>2000</b> , 127, 83-88	3.3	9
32	Historical development and novel concepts upon electrolytes for aqueous rechargeable batteries. <i>Energy and Environmental Science</i> ,	35.4	9
31	Conductivity and redox stability of double perovskite oxide SrCaFe <sub>1+x</sub> Mo <sub>1-x</sub> O <sub>6</sub> (x = 0.2, 0.4, 0.6). <i>Materials Chemistry and Physics</i> , <b>2015</b> , 168, 50-57	4.4	8
30	Conductivity and stability of cobalt pyrovanadate. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 4117-4124.	3.7	8
29	Preparation, characterization and proton-conductivity of silica gel containing 71 wt.% 12-tungstogermanic heteropoly acid. <i>Materials Chemistry and Physics</i> , <b>2000</b> , 64, 25-28	4.4	8
28	An Efficient Symmetric Electrolyzer Based On Bifunctional Perovskite Catalyst for Ammonia Electrolysis. <i>Advanced Science</i> , <b>2021</b> , 8, e2101299	13.6	7
27	Nitrate-based oversaturated gel electrolyte for high-voltage and high-stability aqueous lithium batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 37, 598-608	19.4	7
26	Conductivity and redox stability of new perovskite oxides SrFe <sub>0.7</sub> TM <sub>0.2</sub> Ti <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> (TM = Mn, Fe, Co, Ni, Cu). <i>Solid State Ionics</i> , <b>2017</b> , 301, 99-105	3.3	6
25	Structural, thermal and electrical properties of Bi and Y co-doped barium zirconium cerates. <i>Ionics</i> , <b>2014</b> , 20, 363-371	2.7	6
24	Preparation and Properties of a Ni/Al <sub>2</sub> O <sub>3</sub> Composite by a Sol-Gel Process. <i>Journal of Materials Science Letters</i> , <b>1999</b> , 18, 707-710		6
23	Investigation on LiNaSO <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> ceramics as electrolytes for H <sub>2</sub> /O <sub>2</sub> fuel cells. <i>Materials Research Bulletin</i> , <b>1999</b> , 34, 1651-1659	5.1	6
22	Direct Synthesis of Ni Nanoparticles by a Non-Aqueous Sol-Gel Process. <i>Nanoscience and Nanotechnology Letters</i> , <b>2012</b> , 4, 136-141	0.8	6
21	Cation doped cerium oxynitride with anion vacancies for Fe-based catalyst with improved activity and oxygenate tolerance for efficient synthesis of ammonia. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 285, 119843	21.8	6
20	Structure and conductivity of rutile niobium iron titanate. <i>Solid State Ionics</i> , <b>2013</b> , 236, 48-53	3.3	5
19	Synthesis, Crystal Structure, and Oxide Ion Conductivity in Bi <sub>4.6</sub> Ca <sub>1.1</sub> VO <sub>10.5</sub> . <i>Chemistry of Materials</i> , <b>2002</b> , 14, 3700-3704	9.6	5
18	A highly stable Cu(OH) <sub>2</sub> -Poly(vinyl alcohol) nanocomposite membrane for dramatically enhanced direct borohydride fuel cell performance. <i>Journal of Power Sources</i> , <b>2020</b> , 467, 228312	8.9	4

17	Effects of cobalt addition on structural, thermal and electrical properties of praseodymium-yttrium co-doped barium cerates. <i>Journal of Electroceramics</i> , <b>2014</b> , 32, 344-352	1.5	4
16	Synthesis of Dendritic Nano-Sized Nickel for use as Anode Material in an Alkaline Membrane Fuel Cell. <i>Fuel Cells</i> , <b>2009</b> , 10, n/a-n/a	2.9	4
15	Evaluating the effectiveness of in situ characterization techniques in overcoming mechanistic limitations in lithium-sulfur batteries. <i>Energy and Environmental Science</i> ,	35.4	4
14	Effect of cation size on alkali acetate-based water-in-salt electrolyte and its application in aqueous rechargeable lithium battery. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100728	6.6	3
13	N,N-Dimethylacetamide-Diluted Nitrate Electrolyte for Aqueous Zn//LiMnO Hybrid Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46634-46643	9.5	3
12	Proton-Conducting Materials as Electrolytes for Solid Oxide Fuel Cells <b>2013</b> , 133-158		2
11	Preparation of silver nanoparticles by a non-aqueous sol-gel process. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 5445-51	1.3	2
10	Formation and characterization of a new $(\text{Li}_x\text{Ag}_{1-x})_2\text{SO}_4$ ( $x \approx 0.5$ ) phase. <i>Materials Letters</i> , <b>1998</b> , 34, 30-35	3.3	2
9	Conductivity, Catalytic Property and Electrochemical Performance of a New Perovskite-Type SOFC Anode Material. <i>ECS Proceedings Volumes</i> , <b>2003</b> , 2003-07, 793-802		2
8	Electric conductivity in Zn <sup>2+</sup> -substituted lithium sulfate-alumina ceramics. <i>Solid State Ionics</i> , <b>2000</b> , 136-137, 495-499	3.3	2
7	Status and future prospects of intermediate, high temperature proton conductor fuel cell. <i>Ionics</i> , <b>1999</b> , 5, 70-75	2.7	2
6	Structural and Electrical Properties of the Perovskite Oxide Sr <sub>2</sub> FeNbO <sub>6</sub>		2
5	Optimisation of Perovskite Materials for Fuel Electrodes <b>2004</b> , 87-97		0
4	Key materials and future perspective for aqueous rechargeable lithium-ion batteries. <i>Materials Reports Energy</i> , <b>2022</b> , 100096		0
3	A redox-stable efficient anode for solid-oxide fuel cells <b>2010</b> , 259-262		
2	Synthesis and growth features of copper hydroxide iodide nanoneedles. <i>Materials Letters</i> , <b>2007</b> , 61, 846-849		
1	Natural salt and fluoride based electrolytes fuel cells. <i>Ionics</i> , <b>1999</b> , 5, 472-476	2.7	