

Shanwen Tao

List of Publications by Year in descending order

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162
papers

12,629
citations

36203

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all docs

170
docs citations

170
times ranked

9380
citing authors

#	ARTICLE	IF	CITATIONS
1	A redox-stable efficient anode for solid-oxide fuel cells. <i>Nature Materials</i> , 2003, 2, 320-323.	13.3	1,114
2	Ammonia and related chemicals as potential indirect hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 1482-1494.	3.8	852
3	A redox-stable efficient anode for solid-oxide fuel cells. , 2010, , 259-262.		730
4	A symmetrical solid oxide fuel cell demonstrating redox stable perovskite electrodes. <i>Journal of Materials Chemistry</i> , 2006, 16, 1603.	6.7	373
5	A Stable, Easily Sintered Proton- Conducting Oxide Electrolyte for Moderate-Temperature Fuel Cells and Electrolyzers. <i>Advanced Materials</i> , 2006, 18, 1581-1584.	11.1	365
6	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> , 2004, 151, A252.	1.3	363
7	Synthesis of ammonia directly from air and water at ambient temperature and pressure. <i>Scientific Reports</i> , 2013, 3, 1145.	1.6	339
8	A direct urea fuel cell " power from fertiliser and waste. <i>Energy and Environmental Science</i> , 2010, 3, 438.	15.6	335
9	Recent Progress in the Development of Anode Materials for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2011, 1, 314-332.	10.2	319
10	Advances in reforming and partial oxidation of hydrocarbons for hydrogen production and fuel cell applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 761-780.	8.2	307
11	Conductivity studies of dense yttrium-doped BaZrO ₃ sintered at 1325Å°C. <i>Journal of Solid State Chemistry</i> , 2007, 180, 3493-3503.	1.4	274
12	Solid-state electrochemical synthesis of ammonia: a review. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 1845-1860.	1.2	271
13	Preparation and characterisation of apatite-type lanthanum silicates by a sol-gel process. <i>Materials Research Bulletin</i> , 2001, 36, 1245-1258.	2.7	217
14	Urea-Based Fuel Cells and Electrocatalysts for Urea Oxidation. <i>Energy Technology</i> , 2016, 4, 1329-1337.	1.8	189
15	Development and Recent Progress on Ammonia Synthesis Catalysts for Haber-Bosch Process. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000043.	2.8	188
16	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> , 2010, 20, 7570.	6.7	180
17	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> , 2004, 16, 4116-4121.	3.2	178
18	An Efficient Solid Oxide Fuel Cell Based upon Single-Phase Perovskites. <i>Advanced Materials</i> , 2005, 17, 1734-1737.	11.1	178

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19	Recent progress in ammonia fuel cells and their potential applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 727-752.	5.2	177
20	Discovery and characterization of novel oxide anodes for solid oxide fuel cells. <i>Chemical Record</i> , 2004, 4, 83-95.	2.9	174
21	Preparation and characterization of nanocrystalline γ -Fe ₂ O ₃ by a sol-gel process. <i>Sensors and Actuators B: Chemical</i> , 1997, 40, 161-165.	4.0	167
22	Ammonia as a Suitable Fuel for Fuel Cells. <i>Frontiers in Energy Research</i> , 0, 2, .	1.2	163
23	Preparation and gas-sensing properties of CuFe ₂ O ₄ at reduced temperature. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 77, 172-176.	1.7	143
24	Preparation of nano-sized nickel as anode catalyst for direct urea and urine fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 5021-5026.	4.0	141
25	Metal-organic polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. <i>Nanoscale</i> , 2017, 9, 5323-5328.	2.8	140
26	Direct Ammonia Alkaline Anion-Exchange Membrane Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, B83.	2.2	139
27	Salt-concentrated acetate electrolytes for a high voltage aqueous Zn/MnO ₂ battery. <i>Energy Storage Materials</i> , 2020, 28, 205-215.	9.5	136
28	Electrodeposited NiCu bimetal on carbon paper as stable non-noble anode for efficient electrooxidation of ammonia. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1101-1109.	10.8	130
29	Electrical properties in La ₂ Sr ₄ Ti ₆ O ₁₉ δ : a potential anode for high temperature fuel cells. <i>Solid State Ionics</i> , 2003, 159, 159-165.	1.3	127
30	Directly growing hierarchical nickel-copper hydroxide nanowires on carbon fibre cloth for efficient electrooxidation of ammonia. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 470-479.	10.8	122
31	Electrochemical synthesis of ammonia directly from air and water using a Li ⁺ /H ⁺ /NH ₄ ⁺ mixed conducting electrolyte. <i>RSC Advances</i> , 2013, 3, 18016.	1.7	105
32	Methane Oxidation at Redox Stable Fuel Cell Electrode La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O _{3-δ} . <i>Journal of Physical Chemistry B</i> , 2006, 110, 21771-21776.	1.2	97
33	Novel Proton Conductors in the Layered Oxide Material Li _x Al _{0.5} Co _{0.5} O ₂ . <i>Advanced Energy Materials</i> , 2014, 4, 1301683.	10.2	95
34	Synthesis of ammonia directly from wet air at intermediate temperature. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 212-217.	10.8	91
35	Recent development of perovskite oxide-based electrocatalysts and their applications in low to intermediate temperature electrochemical devices. <i>Materials Today</i> , 2021, 49, 351-377.	8.3	91
36	Electrochemical synthesis of ammonia based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Solid State Ionics</i> , 2011, 201, 94-100.	1.3	89

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37	Structural origins of the differing grain conductivity values in BaZr _{0.9} Y _{0.1} O _{2.95} and indication of novel approach to counter defect association. <i>Journal of Materials Chemistry</i> , 2008, 18, 3414.	6.7	88
38	Ethanol-sensing characteristics of barium stannate prepared by chemical precipitation. <i>Sensors and Actuators B: Chemical</i> , 2000, 71, 223-227.	4.0	87
39	Electronic transport in the novel SOFC anode material La _{1-x} Sr _x Cr _{0.5} Mn _{0.5} O _{3±δ} . <i>Solid State Ionics</i> , 2006, 177, 2005-2008.	1.3	84
40	Electrochemical synthesis of ammonia based on a carbonate-oxide composite electrolyte. <i>Solid State Ionics</i> , 2011, 182, 133-138.	1.3	84
41	Phase Transition in Perovskite Oxide La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O _{3-δ} Observed by in Situ High-Temperature Neutron Powder Diffraction. <i>Chemistry of Materials</i> , 2006, 18, 5453-5460.	3.2	82
42	An efficient ceramic-based anode for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007, 171, 663-669.	4.0	82
43	Highly active Ni-Fe double hydroxides as anode catalysts for electrooxidation of urea. <i>New Journal of Chemistry</i> , 2017, 41, 4190-4196.	1.4	79
44	Progress in inorganic cathode catalysts for electrochemical conversion of carbon dioxide into formate or formic acid. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 661-678.	1.5	75
45	Preparation of a hybrid Cu ₂ O/CuMoO ₄ nanosheet electrode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17749-17756.	5.2	71
46	Historical development and novel concepts on electrolytes for aqueous rechargeable batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1805-1839.	15.6	71
47	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> , 2020, 8, 12810-12820.	5.2	69
48	Conductivity of SnP ₂ O ₇ and In-doped SnP ₂ O ₇ prepared by an aqueous solution method. <i>Solid State Ionics</i> , 2009, 180, 148-153.	1.3	64
49	Structural and Electrical Properties of the Perovskite Oxide Sr ₂ FeNbO ₆ . <i>Chemistry of Materials</i> , 2004, 16, 2309-2316.	3.2	63
50	Ionic conductivity of amorphous lithium lanthanum titanate thin film. <i>Solid State Ionics</i> , 2005, 176, 553-558.	1.3	62
51	Optimization of Mixed Conducting Properties of Y ₂ O ₃ -ZrO ₂ -TiO ₂ and Sc ₂ O ₃ -Y ₂ O ₃ -ZrO ₂ -TiO ₂ Solid Solutions as Potential SOFC Anode Materials. <i>Journal of Solid State Chemistry</i> , 2002, 165, 12-18.	1.4	55
52	Recent progress in electrocatalysts with mesoporous structures for application in polymer electrolyte membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16272-16287.	5.2	55
53	Synthesis of NiMoS ₄ for High-Performance Hybrid Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2881-A2888.	1.3	55
54	Electrochemical synthesis of ammonia from N ₂ and H ₂ O based on (Li,Na,K) ₂ CO ₃ -Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2±δ} composite electrolyte and CoFe ₂ O ₄ cathode. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4322-4330.	3.8	52

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55	A high performance intermediate temperature fuel cell based on a thick oxide-carbonate electrolyte. <i>Journal of Power Sources</i> , 2009, 194, 967-971.	4.0	47
56	Kinetics of the reactive sintering of kaolinite-aluminum hydroxide extrudate. <i>Ceramics International</i> , 2002, 28, 479-486.	2.3	46
57	Stable, easily sintered BaCe _{0.5} Zr _{0.3} Y _{0.16} Zn _{0.04} O _{3-δ} electrolyte-based protonic ceramic membrane fuel cells with Ba _{0.5} Sr _{0.5} Zn _{0.2} Fe _{0.8} O _{3-δ} perovskite cathode. <i>Journal of Power Sources</i> , 2008, 183, 479-484.	4.0	46
58	Durability study of an intermediate temperature fuel cell based on an oxide-carbonate composite electrolyte. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6934-6940.	3.8	46
59	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> , 2011, 196, 8272-8279.	4.0	46
60	A stable intermediate temperature fuel cell based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Electrochemistry Communications</i> , 2011, 13, 582-585.	2.3	45
61	Synthesis of ammonia directly from wet air using new perovskite oxide La _{0.8} Cs _{0.2} Fe _{0.8} Ni _{0.2} O _{3-δ} as catalyst. <i>Electrochimica Acta</i> , 2014, 123, 582-587.	2.6	45
62	Preparation of nanoporous nickel copper sulfide on carbon cloth for high-performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2018, 273, 170-180.	2.6	45
63	Preferentially oriented large antimony trisulfide single-crystalline cuboids grown on polycrystalline titania film for solar cells. <i>Communications Chemistry</i> , 2019, 2, .	2.0	45
64	Preparation and properties of λ -Fe ₂ O ₃ and Y ₂ O ₃ doped λ -Fe ₂ O ₃ by a sol-gel process. <i>Sensors and Actuators B: Chemical</i> , 1999, 61, 33-38.	4.0	44
65	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> , 2016, 6, 31839.	1.6	41
66	Roadmap on inorganic perovskites for energy applications. <i>JPhys Energy</i> , 2021, 3, 031502.	2.3	40
67	Achieving Both High Selectivity and Current Density for CO ₂ Reduction to Formate on Nanoporous Tin Foam Electrocatalysts. <i>ChemistrySelect</i> , 2016, 1, 1711-1715.	0.7	38
68	Intermediate temperature stable proton conductors based upon SnP ₂ O ₇ , including additional H ₃ PO ₄ . <i>Journal of Materials Chemistry</i> , 2010, 20, 7827.	6.7	37
69	Electrochemical Synthesis of Ammonia Based on Co ₃ Mo ₃ N Catalyst and LiAlO ₂ (Li,Na,K) ₂ CO ₃ Composite Electrolyte. <i>Electrocatalysis</i> , 2015, 6, 286-294.	1.5	37
70	Electrochemical synthesis of ammonia from wet nitrogen via a dual-chamber reactor using La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} -Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2-δ} composite cathode. <i>Catalysis Today</i> , 2017, 286, 51-56.	2.2	37
71	Evaluating the effectiveness of <i>in situ</i> characterization techniques in overcoming mechanistic limitations in lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1423-1460.	15.6	37
72	Preparation of LiMO ₂ (M=Co, Ni) cathode materials for intermediate temperature fuel cells by sol-gel processes. <i>Solid State Ionics</i> , 1999, 124, 53-59.	1.3	36

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73	Titanate cathodes with enhanced electrical properties achieved via growing surface Ni particles toward efficient carbon dioxide electrolysis. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3137-3143.	1.3	36
74	Construction of porous N-doped graphene layer for efficient oxygen reduction reaction. <i>Chemical Engineering Science</i> , 2019, 194, 36-44.	1.9	34
75	An Efficient Symmetric Electrolyzer Based On Bifunctional Perovskite Catalyst for Ammonia Electrolysis. <i>Advanced Science</i> , 2021, 8, e2101299.	5.6	34
76	Study on the structural and electrical properties of the double perovskite oxide $\text{SrMn}_{0.5}\text{Nb}_{0.5}\text{O}_{3-x}$. <i>Journal of Materials Chemistry</i> , 2002, 12, 2356-2360.	6.7	32
77	Promotion effect of proton-conducting oxide $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.2}\text{O}_{3-x}$ on the catalytic activity of Ni towards ammonia synthesis from hydrogen and nitrogen. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17726-17736.	3.8	32
78	Investigation of the Mixed Conducting Oxide ScYZT as a Potential SOFC Anode Material. <i>Journal of the Electrochemical Society</i> , 2004, 151, A497.	1.3	31
79	Perchlorate Based "Oversaturated Gel Electrolyte" for an Aqueous Rechargeable Hybrid Zn-Li Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 2526-2536.	2.5	31
80	Conductivity of a new pyrophosphate $\text{Sn}_{0.9}\text{Sc}_{0.1}(\text{P}_2\text{O}_7)_x$ prepared by an aqueous solution method. <i>Journal of Alloys and Compounds</i> , 2009, 486, 380-385.	2.8	30
81	Conductivity and redox stability of perovskite oxide $\text{SrFe}_{1-x}\text{Ti}_x\text{O}_{3-x}$ ($x=0.3$). <i>Solid State Sciences</i> , 2015, 46, 62-70.	1.5	30
82	Improved stability and activity of Fe-based catalysts through strong metal support interactions due to extrinsic oxygen vacancies in $\text{Ce}_{0.8}\text{Sm}_{0.2}\text{O}_{2-x}$ for the efficient synthesis of ammonia. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16676-16689.	5.2	30
83	Synthesis of ammonia directly from wet nitrogen using a redox stable $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Fe}_{0.5}\text{O}_{3-x}$ "Ce _{0.8} Gd _{0.18} ..." cathode. <i>RSC Advances</i> , 2015, 5, 38977-38983.		
84	Proton conductivity of potassium doped barium zirconates. <i>Journal of Solid State Chemistry</i> , 2010, 183, 93-98.	1.4	28
85	High Ionic Conductivity in a LiFeO_2 - LiAlO_2 Composite Under H_2 /Air Fuel Cell Conditions. <i>Chemistry - A European Journal</i> , 2015, 21, 1350-1358.	1.7	28
86	Synthesis of $\text{Li}_2\text{Ni}_2(\text{MoO}_4)_3$ as a high-performance positive electrode for asymmetric supercapacitors. <i>RSC Advances</i> , 2017, 7, 13304-13311.	1.7	28
87	High-temperature stability study of the oxygen-ion conductor $\text{La}_{0.9}\text{Sr}_{0.1}\text{Ga}_{0.8}\text{Mg}_{0.2}\text{O}_{3-x}$. <i>Journal of Materials Chemistry</i> , 2000, 10, 1829-1833.	6.7	27
88	Cost-effective solid oxide fuel cell prepared by single step co-press-firing process with lithiated NiO cathode. <i>Electrochemistry Communications</i> , 2010, 12, 1589-1592.	2.3	27
89	Efficient CO ₂ electrolysis with scandium doped titanate cathode. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8197-8206.	3.8	27
90	Novel redox reversible oxide, Sr-doped cerium orthovanadate to metavanadate. <i>Journal of Materials Chemistry</i> , 2011, 21, 525-531.	6.7	26

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91	Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 814-820.	0.4	26
92	Electrode materials for intermediate temperature proton-conducting fuel cells. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 153-157.	1.5	25
93	Preparation of dense $\text{La}_{0.5}\text{Sr}_{0.5}\text{Fe}_{0.8}\text{Cu}_{0.2}\text{O}_{3-\delta}$ (Li,Na) CO_3 - LiAlO_2 composite membrane for CO_2 separation. <i>Journal of Membrane Science</i> , 2014, 468, 380-388.	4.1	25
94	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> , 2021, 285, 119843.	10.8	25
95	Acetate-based H^+ -oversaturated gel electrolyte™ enabling highly stable aqueous Zn-MnO ₂ battery. <i>Energy Storage Materials</i> , 2021, 42, 240-251.	9.5	25
96	Synthesis and ionic conduction of apatite-type materials. <i>Ionics</i> , 2000, 6, 389-396.	1.2	23
97	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with $\text{SrCo}_{0.9}\text{Sb}_{0.1}\text{O}_{3-\delta}$ cubic perovskite cathode. <i>Journal of Power Sources</i> , 2008, 185, 937-940.	4.0	23
98	Electrochemical synthesis of ammonia from wet nitrogen using $\text{La}_{0.6}\text{Sr}_{0.4}\text{Fe}_{0.3}\text{Ce}_{0.8}\text{Gd}_{0.18}\text{Ca}_{0.02}\text{O}_{2-\delta}$ composite cathode. <i>RSC Advances</i> , 2014, 4, 18749-18754.	1.7	22
99	Chemical stability study of Li_2SO_4 on the operation condition of a H_2/O_2 fuel cell. <i>Solid State Ionics</i> , 1999, 116, 29-33.	1.3	21
100	A simple high-performance matrix-free biomass molten carbonate fuel cell without CO_2 recirculation. <i>Science Advances</i> , 2016, 2, e1600772.	4.7	21
101	Electrochemical Synthesis of Ammonia Directly from Wet N_2 Using $\text{La}_{0.6}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Cu}_{0.2}\text{O}_{3-\delta}$ - $\text{Ce}_{0.8}\text{Gd}_{0.18}\text{Ca}_{0.02}\text{O}_{2-\delta}$ Composite Catalyst. <i>Journal of the Electrochemical Society</i> , 2014, 161, H350-H354.	1.3	20
102	Demonstration of direct conversion of $\text{CO}_2/\text{H}_2\text{O}$ into syngas in a symmetrical proton-conducting solid oxide electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1170-1175.	3.8	20
103	A scandium-doped manganate anode for a proton-conducting solid oxide steam electrolyzer. <i>RSC Advances</i> , 2016, 6, 641-647.	1.7	20
104	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> , 2020, 8, 12817-12824.	3.2	20
105	Synthesis of ammonia directly from wet air using $\text{Sm}_{0.6}\text{Ba}_{0.4}\text{Fe}_{0.8}\text{Cu}_{0.2}\text{O}_{3-\delta}$ as the catalyst. <i>Faraday Discussions</i> , 2015, 182, 353-363.	1.6	19
106	Interface formation and Mn segregation of directly assembled $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ cathode on $\text{Y}_2\text{O}_3\text{-ZrO}_2$ and $\text{Gd}_2\text{O}_3\text{-CeO}_2$ electrolytes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2018, 325, 176-188.	1.3	19
107	Investigation of Perovskite Oxide $\text{SrCo}_{0.8}\text{Cu}_{0.1}\text{Nb}_{0.1}\text{O}_{3-\delta}$ as a Cathode Material for Room Temperature Direct Ammonia Fuel Cells. <i>ChemSusChem</i> , 2019, 12, 2788-2794.	3.6	19
108	Nitrate-based H^+ -oversaturated gel electrolyte™ for high-voltage and high-stability aqueous lithium batteries. <i>Energy Storage Materials</i> , 2021, 37, 598-608.	9.5	19

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109	Oxygen Vacancy-Rich La _{0.5} Sr _{1.5} Ni _{0.9} Cu _{0.1} O ₄ as a High-Performance Bifunctional Catalyst for Symmetric Ammonia Electrolyzer. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	19
110	Proton conductivity of Al(H ₂ PO ₄) ₃ -H ₃ PO ₄ composites at intermediate temperature. <i>Solid State Ionics</i> , 2009, 180, 343-350.	1.3	18
111	Structure and conductivity of strontium-doped cerium orthovanadates Ce _{1-x} Sr _x VO ₄ (0 ≤ x ≤ 0.175). <i>Journal of Solid State Chemistry</i> , 2010, 183, 1231-1238.	1.4	18
112	Structure, conductivity and redox reversibility of Ca-doped cerium metavanadate. <i>Journal of Materials Chemistry</i> , 2011, 21, 8854.	6.7	18
113	Fabrication of solid oxide fuel cell based on doped ceria electrolyte by one-step sintering at 800 °C. <i>Solid State Ionics</i> , 2011, 203, 47-51.	1.3	18
114	An intermediate temperature solid oxide fuel cell fabricated by one step co-press-sintering. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14643-14647.	3.8	18
115	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> , 2000, 68, 161-165.	1.7	17
116	Structural and electrochemical properties of the perovskite oxide Pr _{0.7} Sr _{0.3} Cr _{0.9} Ni _{0.1} O ₃ . <i>Solid State Ionics</i> , 2008, 179, 725-731.	1.3	17
117	Study on conductivity and redox stability of iron orthovanadate. <i>Materials Chemistry and Physics</i> , 2011, 126, 614-618.	2.0	17
118	Ammonia Carbonate Fuel Cells Based on a Mixed NH ₄ ⁺ /H ⁺ Ion Conducting Electrolyte. <i>ECS Electrochemistry Letters</i> , 2013, 2, F37-F40.	1.9	17
119	Growth of Compact CH ₃ NH ₃ PbI ₃ Thin Films Governed by the Crystallization in Pbl ₂ Matrix for Efficient Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8649-8658.	4.0	17
120	Introducing catalyst in alkaline membrane for improved performance direct borohydride fuel cells. <i>Journal of Power Sources</i> , 2018, 374, 113-120.	4.0	17
121	Structure, conductivity and redox stability of solid solution Ce _{1-x} Ca _x VO ₄ (0 ≤ x ≤ 0.4125). <i>Journal of Materials Science</i> , 2011, 46, 316-326.	1.7	16
122	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> , 2010, 195, 6983-6987.	4.0	15
123	Structure and properties of nonstoichiometric mixed perovskites A ₃ B ₂ 1+xB ₃ 2 ⁺ xO ₉ . <i>Solid State Ionics</i> , 2002, 154-155, 659-667.	1.3	14
124	Study on Direct Flame Solid Oxide Fuel Cell Using Flat Burner and Ethylene Flame. <i>ECS Transactions</i> , 2015, 68, 1989-1999.	0.3	14
125	<i>N,N</i> -Dimethylacetamide-Diluted Nitrate Electrolyte for Aqueous Zn//LiMn ₂ O ₄ Hybrid Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46634-46643.	4.0	14
126	Structure and conductivity of praseodymium and yttrium co-doped barium cerates. <i>Solid State Sciences</i> , 2013, 17, 115-121.	1.5	13

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127	An intermediate temperature fuel cell based on composite electrolyte of carbonate and doped barium cerate with $\text{SrFe}_{0.7}\text{Mn}_{0.2}\text{Mo}_{0.1}\text{O}_{3-\delta}$ cathode. International Journal of Hydrogen Energy, 2013, 38, 16546-16551.	3.8	13
128	Electrooxidation of ammonia on A-site deficient perovskite oxide $\text{La}_{0.9}\text{Ni}_{0.6}\text{Cu}_{0.35}\text{Fe}_{0.05}\text{O}_{3-\delta}$ for wastewater treatment. Separation and Purification Technology, 2022, 297, 121451.	3.9	13
129	The Proton and Oxygen Ion Conduction in a NaCl Based Composite Electrolyte. Journal of Materials Science Letters, 1999, 18, 81-84.	0.5	12
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