

Shanwen Tao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160
papers

9,154
citations

46
h-index

92
g-index

170
ext. papers

10,399
ext. citations

7.6
avg, IF

6.67
L-index

#	Paper	IF	Citations
160	Key materials and future perspective for aqueous rechargeable lithium-ion batteries. <i>Materials Reports Energy</i> , 2022 , 100096		0
159	An Efficient Symmetric Electrolyzer Based On Bifunctional Perovskite Catalyst for Ammonia Electrolysis. <i>Advanced Science</i> , 2021 , 8, e2101299	13.6	7
158	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	21.8	6
157	Nitrate-based oversaturated gel electrolyte for high-voltage and high-stability aqueous lithium batteries. <i>Energy Storage Materials</i> , 2021 , 37, 598-608	19.4	7
156	Recent development of perovskite oxide-based electrocatalysts and their applications in low to intermediate temperature electrochemical devices. <i>Materials Today</i> , 2021 ,	21.8	16
155	Recent progress in ammonia fuel cells and their potential applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 727-752	13	47
154	Development and Recent Progress on Ammonia Synthesis Catalysts for Haber-Bosch Process. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000043	1.6	28
153	Roadmap on inorganic perovskites for energy applications. <i>JPhys Energy</i> , 2021 , 3, 031502	4.9	13
152	N,N-Dimethylacetamide-Diluted Nitrate Electrolyte for Aqueous Zn//LiMnO Hybrid Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46634-46643	9.5	3
151	Acetate-based oversaturated gel electrolyte enabling highly stable aqueous Zn-MnO ₂ battery. <i>Energy Storage Materials</i> , 2021 , 42, 240-251	19.4	10
150	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	13	31
149	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> , 2020 , 20, 100728	6.6	3
148	A highly stable Cu(OH) ₂ -Poly(vinyl alcohol) nanocomposite membrane for dramatically enhanced direct borohydride fuel cell performance. <i>Journal of Power Sources</i> , 2020 , 467, 228312	8.9	4
147	Salt-concentrated acetate electrolytes for a high voltage aqueous Zn/MnO ₂ battery. <i>Energy Storage Materials</i> , 2020 , 28, 205-215	19.4	70
146	Perchlorate Based Oversaturated Gel Electrolyte for an Aqueous Rechargeable Hybrid Zn//Ni Battery. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2526-2536	6.1	20
145	Improved stability and activity of Fe-based catalysts through strong metal support interactions due to extrinsic oxygen vacancies in Ce _{0.8} Sm _{0.2} O ₂ for the efficient synthesis of ammonia. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16676-16689	13	12
144	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	8.3	11

143	Investigation of perovskite oxide SrFe _{0.8} Cu _{0.1} Nb _{0.1} O _{3-δ} as cathode for a room temperature direct ammonia fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 26554-26564	6.7	9
142	Investigation of Perovskite Oxide SrCo Cu Nb O as a Cathode Material for Room Temperature Direct Ammonia Fuel Cells. <i>ChemSusChem</i> , 2019 , 12, 2788-2794	8.3	13
141	Preferentially oriented large antimony trisulfide single-crystalline cuboids grown on polycrystalline titania film for solar cells. <i>Communications Chemistry</i> , 2019 , 2,	6.3	21
140	Construction of porous N-doped graphene layer for efficient oxygen reduction reaction. <i>Chemical Engineering Science</i> , 2019 , 194, 36-44	4.4	24
139	Growth of Compact CHNHPbI Thin Films Governed by the Crystallization in Pbi Matrix for Efficient Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8649-8658	9.5	13
138	Preparation of nanoporous nickelcopper sulfide on carbon cloth for high-performance hybrid supercapacitors. <i>Electrochimica Acta</i> , 2018 , 273, 170-180	6.7	34
137	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	21.8	63
136	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	16.2	212
135	Introducing catalyst in alkaline membrane for improved performance direct borohydride fuel cells. <i>Journal of Power Sources</i> , 2018 , 374, 113-120	8.9	12
134	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
133	Promotion effect of proton-conducting oxide BaZr _{0.1} Ce _{0.7} Y _{0.2} O _{3-δ} on the catalytic activity of Ni towards ammonia synthesis from hydrogen and nitrogen. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17726-17736	6.7	19
132	Redox-reversible perovskite ferrite cathode for high temperature solid oxide steam electrolyser. <i>Electrochimica Acta</i> , 2017 , 229, 48-54	6.7	9
131	Conductivity and redox stability of new perovskite oxides SrFe _{0.7} TM _{0.2} Ti _{0.1} O _{3-δ} (TM = Mn, Fe, Co, Ni, Cu). <i>Solid State Ionics</i> , 2017 , 301, 99-105	3.3	6
130	Synthesis of Li ₂ Ni ₂ (MoO ₄) ₃ as a high-performance positive electrode for asymmetric supercapacitors. <i>RSC Advances</i> , 2017 , 7, 13304-13311	3.7	25
129	Highly active NiBe double hydroxides as anode catalysts for electrooxidation of urea. <i>New Journal of Chemistry</i> , 2017 , 41, 4190-4196	3.6	60
128	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	2.6	51
127	Efficient CO ₂ electrolysis with scandium doped titanate cathode. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 8197-8206	6.7	20
126	Metal-polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. <i>Nanoscale</i> , 2017 , 9, 5323-5328	7.7	104

125	Synthesis of NiMoS ₄ for High-Performance Hybrid Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2881-A2888	3.9	37
124	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	21.8	65
123	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-λ} Ce _{0.8} Gd _{0.18} Ca _{0.02} O _{2-λ} composite cathode. <i>Catalysis Today</i> , 2017 , 286, 51-56	5.3	25
122	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	1.8	30
121	Urea-Based Fuel Cells and Electrocatalysts for Urea Oxidation. <i>Energy Technology</i> , 2016 , 4, 1329-1337	3.5	114
120	A simple high-performance matrix-free biomass molten carbonate fuel cell without CO ₂ recirculation. <i>Science Advances</i> , 2016 , 2, e1600772	14.3	15
119	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	13	58
118	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	4.9	34
117	Conductivity and redox stability of new double perovskite oxide Sr _{1.6} K _{0.4} Fe _{1+x} Mo _{1-x} O ₆ (x = 0.2, 0.4, 0.6). <i>Journal of Materials Science</i> , 2016 , 51, 4115-4124	4.3	9
116	A scandium-doped manganate anode for a proton-conducting solid oxide steam electrolyzer. <i>RSC Advances</i> , 2016 , 6, 641-647	3.7	14
115	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, 3137-43	3.6	29
114	Demonstration of direct conversion of CO ₂ /H ₂ O into syngas in a symmetrical proton-conducting solid oxide electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1170-1175	6.7	15
113	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	13	45
112	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, 1350-8	4.8	20
111	Study on Direct Flame Solid Oxide Fuel Cell Using Flat Burner and Ethylene Flame. <i>ECS Transactions</i> , 2015 , 68, 1989-1999	1	12
110	Synthesis of ammonia directly from wet nitrogen using a redox stable La _{0.75} Sr _{0.25} Cr _{0.5} Fe _{0.5} O _{3-λ} Fe _{0.8} Gd _{0.18} Ca _{0.02} O _{2-λ} composite cathode. <i>RSC Advances</i> , 2015 , 5, 38977-38983	3.7	25
109	Synthesis of ammonia directly from wet air using Sm _{0.6} Ba _{0.4} Fe _{0.8} Cu _{0.2} O _{3-λ} as the catalyst. <i>Faraday Discussions</i> , 2015 , 182, 353-63	3.6	17
108	Electrochemical Synthesis of Ammonia Based on Co ₃ Mo ₃ N Catalyst and LiAlO ₂ (Li,Na,K)CO ₃ Composite Electrolyte. <i>Electrocatalysis</i> , 2015 , 6, 286-294	2.7	29

107	Conductivity and redox stability of double perovskite oxide $\text{SrCaFe}_{1+x}\text{Mo}_{1-x}\text{O}_6$ ($x = 0.2, 0.4, 0.6$). <i>Materials Chemistry and Physics</i> , 2015 , 168, 50-57	4.4	8
106	Conductivity and redox stability of perovskite oxide $\text{SrFe}_{1-x}\text{Ti}_x\text{O}_3$ ($x = 0.3$). <i>Solid State Sciences</i> , 2015 , 46, 62-70	3.4	20
105	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> , 2014 , 4, 1301683	21.8	62
104	Synthesis of ammonia directly from wet air at intermediate temperature. <i>Applied Catalysis B: Environmental</i> , 2014 , 152-153, 212-217	21.8	78
103	Structural, thermal and electrical properties of Bi and Y co-doped barium zirconium cerates. <i>Ionics</i> , 2014 , 20, 363-371	2.7	6
102	Electrochemical synthesis of ammonia from wet nitrogen using $\text{La}_{0.6}\text{Sr}_{0.4}\text{FeO}_3\text{-Ce}_{0.8}\text{Gd}_{0.18}\text{Ca}_{0.02}\text{O}_2$ composite cathode. <i>RSC Advances</i> , 2014 , 4, 18749-18754	3.7	21
101	Preparation of dense $\text{La}_{0.5}\text{Sr}_{0.5}\text{Fe}_{0.8}\text{Cu}_{0.2}\text{O}_3\text{-(Li,Na)}_2\text{CO}_3\text{-Al}_2\text{O}_3$ composite membrane for CO_2 separation. <i>Journal of Membrane Science</i> , 2014 , 468, 380-388	9.6	20
100	Synthesis of ammonia directly from wet air using new perovskite oxide $\text{La}_{0.8}\text{Cs}_{0.2}\text{Fe}_{0.8}\text{Ni}_{0.2}\text{O}_3$ as catalyst. <i>Electrochimica Acta</i> , 2014 , 123, 582-587	6.7	37
99	Ammonia as a Suitable Fuel for Fuel Cells. <i>Frontiers in Energy Research</i> , 2014 , 2,	3.8	104
98	Electrochemical Synthesis of Ammonia Directly from Wet N_2 Using $\text{La}_{0.6}\text{Sr}_{0.4}\text{Fe}_{0.8}\text{Cu}_{0.2}\text{O}_3\text{-Ce}_{0.8}\text{Gd}_{0.18}\text{Ca}_{0.02}\text{O}_2$ Composite Catalyst. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H350-H354	3.9	19
97	New Layered Proton-Conducting Oxides $\text{Li}_x\text{Al}_{0.6}\text{Co}_{0.4}\text{O}_2$ and $\text{Li}_x\text{Al}_{0.7}\text{Co}_{0.3}\text{O}_2$. <i>ChemElectroChem</i> , 2014 , 1, 2098-2103	4.3	9
96	Electrochemical synthesis of ammonia from N_2 and H_2O based on $(\text{Li,Na,K})_2\text{CO}_3\text{-Ce}_{0.8}\text{Gd}_{0.18}\text{Ca}_{0.02}\text{O}_2$ composite electrolyte and CoFe_2O_4 cathode. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4322-4330	6.7	45
95	Effects of cobalt addition on structural, thermal and electrical properties of praseodymium-yttrium co-doped barium cerates. <i>Journal of Electroceramics</i> , 2014 , 32, 344-352	1.5	4
94	Electrochemical synthesis of ammonia directly from air and water using a $\text{Li}^+/\text{H}^+/\text{NH}_4^+$ mixed conducting electrolyte. <i>RSC Advances</i> , 2013 , 3, 18016	3.7	86
93	Structure and conductivity of praseodymium and yttrium co-doped barium cerates. <i>Solid State Sciences</i> , 2013 , 17, 115-121	3.4	12
92	Structure and conductivity of rutile niobium iron titanate. <i>Solid State Ionics</i> , 2013 , 236, 48-53	3.3	5
91	An intermediate temperature fuel cell based on composite electrolyte of carbonate and doped barium cerate with $\text{SrFe}_{0.7}\text{Mn}_{0.2}\text{Mo}_{0.1}\text{O}_3$ cathode. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16546-16551	6.7	13
90	Synthesis of ammonia directly from air and water at ambient temperature and pressure. <i>Scientific Reports</i> , 2013 , 3, 1145	4.9	277

89	Proton-Conducting Materials as Electrolytes for Solid Oxide Fuel Cells 2013 , 133-158		2
88	Ammonia Carbonate Fuel Cells Based on a Mixed NH ₄ ⁺ /H ⁺ Ion Conducting Electrolyte. <i>ECS Electrochemistry Letters</i> , 2013 , 2, F37-F40		15
87	Preparation of silver nanoparticles by a non-aqueous sol-gel process. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5445-51	1.3	2
86	Ammonia and related chemicals as potential indirect hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1482-1494	6.7	613
85	Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 814-820	0.8	24
84	Direct Synthesis of Ni Nanoparticles by a Non-Aqueous Sol-Gel Process. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 136-141	0.8	6
83	Conductivity and stability of cobalt pyrovanadate. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4117-4124	4.7	8
82	Electrochemical synthesis of ammonia based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Solid State Ionics</i> , 2011 , 201, 94-100	3.3	79
81	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	3.3	15
80	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	8.9	45
79	Study on conductivity and redox stability of iron orthovanadate. <i>Materials Chemistry and Physics</i> , 2011 , 126, 614-618	4.4	15
78	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	6.7	13
77	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	4.3	15
76	Solid-state electrochemical synthesis of ammonia: a review. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 1845-1860	2.6	216
75	A stable NH ₄ PO ₃ -glass proton conductor for intermediate temperature fuel cells. <i>Solid State Ionics</i> , 2011 , 192, 108-112	3.3	9
74	Recent Progress in the Development of Anode Materials for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 314-332	21.8	276
73	Structure, conductivity and redox reversibility of Ca-doped cerium metavanadate. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8854		17
72	Novel redox reversible oxide, Sr-doped cerium orthovanadate to metavanadate. <i>Journal of Materials Chemistry</i> , 2011 , 21, 525-531		24

71	A stable intermediate temperature fuel cell based on doped-ceria-carbonate composite electrolyte and perovskite cathode. <i>Electrochemistry Communications</i> , 2011 , 13, 582-585	5.1	42
70	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	8.9	115
69	Electrochemical synthesis of ammonia based on a carbonate-oxide composite electrolyte. <i>Solid State Ionics</i> , 2011 , 182, 133-138	3.3	71
68	Intermediate temperature stable proton conductors based upon SnP2O7, including additional H3PO4. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7827		32
67	A direct urea fuel cell power from fertiliser and waste. <i>Energy and Environmental Science</i> , 2010 , 3, 438	35.4	248
66	Direct Ammonia Alkaline Anion-Exchange Membrane Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, B83		104
65	CuInS2 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		174
64	A redox-stable efficient anode for solid-oxide fuel cells 2010 , 259-262		
63	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	8.9	11
62	Proton conductivity of potassium doped barium zirconates. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 93-98	3.3	27
61	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	3.3	16
60	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	6.7	42
59	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	5.1	19
58	Synthesis of Dendritic Nano-Sized Nickel for use as Anode Material in an Alkaline Membrane Fuel Cell. <i>Fuel Cells</i> , 2009 , 10, n/a-n/a	2.9	4
57	Proton conductivity of Al(H2PO4)3·H3PO4 composites at intermediate temperature. <i>Solid State Ionics</i> , 2009 , 180, 343-350	3.3	17
56	Conductivity of SnP2O7 and In-doped SnP2O7 prepared by an aqueous solution method. <i>Solid State Ionics</i> , 2009 , 180, 148-153	3.3	55
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	8.9	45
54	Stability and conductivity study of NH4PO3/TFE composites at intermediate temperatures. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 874-877	5.7	9

53	Conductivity of a new pyrophosphate $\text{Sn}_{0.9}\text{Sc}_{0.1}(\text{P}_2\text{O}_7)_1$ prepared by an aqueous solution method. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 380-385	5-7	28
52	Structural origins of the differing grain conductivity values in $\text{BaZr}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$ and indication of novel approach to counter defect association. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3414		79
51	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with $\text{SrCo}_{0.9}\text{Sb}_{0.1}\text{O}_3$ cubic perovskite cathode. <i>Journal of Power Sources</i> , 2008 , 185, 937-940	8-9	22
50	Stable, easily sintered $\text{BaCe}_{0.5}\text{Zr}_{0.3}\text{Y}_{0.16}\text{Zn}_{0.04}\text{O}_3$ electrolyte-based protonic ceramic membrane fuel cells with $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Zn}_{0.2}\text{Fe}_{0.8}\text{O}_3$ perovskite cathode. <i>Journal of Power Sources</i> , 2008 , 183, 479-484	8-9	39
49	Structural and electrochemical properties of the perovskite oxide $\text{Pr}_{0.7}\text{Sr}_{0.3}\text{Cr}_{0.9}\text{Ni}_{0.1}\text{O}_3$. <i>Solid State Ionics</i> , 2008 , 179, 725-731	3-3	14
48	An efficient ceramic-based anode for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007 , 171, 663-669	8-9	68
47	Conductivity studies of dense yttrium-doped BaZrO_3 sintered at 1325°C. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 3493-3503	3-3	236
46	Synthesis and growth features of copper hydroxide iodide nanoneedles. <i>Materials Letters</i> , 2007 , 61, 846-849		349
45	Electronic transport in the novel SOFC anode material $\text{La}_{1-x}\text{Sr}_x\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-\delta}$. <i>Solid State Ionics</i> , 2006 , 177, 2005-2008	3-3	70
44	A Stable, Easily Sintered Proton-Conducting Oxide Electrolyte for Moderate-Temperature Fuel Cells and Electrolyzers. <i>Advanced Materials</i> , 2006 , 18, 1581-1584	24	319
43	A symmetrical solid oxide fuel cell demonstrating redox stable perovskite electrodes. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1603		319
42	Methane oxidation at redox stable fuel cell electrode $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-\delta}$. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21771-6	3-4	86
41	Phase Transition in Perovskite Oxide $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3$ -Observed by in Situ High-Temperature Neutron Powder Diffraction. <i>Chemistry of Materials</i> , 2006 , 18, 5453-5460	9-6	66
40	An Efficient Solid Oxide Fuel Cell Based upon Single-Phase Perovskites. <i>Advanced Materials</i> , 2005 , 17, 1734-1737	24	163
39	Phase transition, thermal expansion and electrical properties of BiCu_2VO_6 . <i>Journal of Solid State Chemistry</i> , 2005 , 178, 2927-2933	3-3	9
38	Ionic conductivity of amorphous lithium lanthanum titanate thin film. <i>Solid State Ionics</i> , 2005 , 176, 553-558		51
37	Investigation of the Mixed Conducting Oxide ScYtZr as a Potential SOFC Anode Material. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A497	3-9	25
36	Discovery and characterization of novel oxide anodes for solid oxide fuel cells. <i>Chemical Record</i> , 2004 , 4, 83-95	6-6	156

35	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	3.9	336
34	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	9.6	163
33	Structural and Electrical Properties of the Perovskite Oxide $\text{Sr}_2\text{FeNbO}_6$. <i>Chemistry of Materials</i> , 2004 , 16, 2309-2316	9.6	53
32	Optimisation of Perovskite Materials for Fuel Electrodes 2004 , 87-97		0
31	Conductivity, Catalytic Property and Electrochemical Performance of a New Perovskite-Type SOFC Anode Material. <i>ECS Proceedings Volumes</i> , 2003 , 2003-07, 793-802		2
30	Electrical properties in $\text{La}_2\text{Sr}_4\text{Ti}_6\text{O}_{19-\delta}$: a potential anode for high temperature fuel cells. <i>Solid State Ionics</i> , 2003 , 159, 159-165	3.3	110
29	A redox-stable efficient anode for solid-oxide fuel cells. <i>Nature Materials</i> , 2003 , 2, 320-3	27	986
28	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> , 2002 , 165, 12-18	3.3	48
27	Kinetics of the reactive sintering of kaolinite-aluminum hydroxide extrudate. <i>Ceramics International</i> , 2002 , 28, 479-486	5.1	41
26	Structure and properties of nonstoichiometric mixed perovskites $\text{A}_3\text{B}_{1+x}\text{B}'_2\text{O}_9$ <i>Solid State Ionics</i> , 2002 , 154-155, 659-667	3.3	13
25	Synthesis, Crystal Structure, and Oxide Ion Conductivity in $\text{Bi}_{4.6}\text{Ca}_{1.1}\text{VO}_{10.5}$. <i>Chemistry of Materials</i> , 2002 , 14, 3700-3704	9.6	5
24	Study on the structural and electrical properties of the double perovskite oxide $\text{SrMn}_{0.5}\text{Nb}_{0.5}\text{O}_3$ <i>Journal of Materials Chemistry</i> , 2002 , 12, 2356-2360		28
23	Preparation and characterisation of apatite-type lanthanum silicates by a sol-gel process. <i>Materials Research Bulletin</i> , 2001 , 36, 1245-1258	5.1	185
22	Preparation and gas-sensing properties of CuFe_2O_4 at reduced temperature. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 77, 172-176	3.1	130
21	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	3.1	15
20	Ethanol-sensing characteristics of barium stannate prepared by chemical precipitation. <i>Sensors and Actuators B: Chemical</i> , 2000 , 71, 223-227	8.5	79
19	Electric conductivity in Zn^{2+} -substituted lithium sulfatealumina ceramics. <i>Solid State Ionics</i> , 2000 , 136-137, 495-499	3.3	2
18	Chemical stability study of Li_2SO_4 in a $\text{H}_2\text{S}/\text{O}_2$ fuel cell. <i>Solid State Ionics</i> , 2000 , 127, 83-88	3.3	9

17	Preparation, characterization and proton-conductivity of silica gel containing 71 wt.% 12-tungstogermanic heteropoly acid. <i>Materials Chemistry and Physics</i> , 2000 , 64, 25-28	4.4	8
16	Electrode materials for intermediate temperature proton-conducting fuel cells. <i>Journal of Applied Electrochemistry</i> , 2000 , 30, 153-157	2.6	25
15	Synthesis and ionic conduction of apatite-type materials. <i>Ionics</i> , 2000 , 6, 389-396	2.7	22
14	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		22
13	Preparation and properties of YFe_2O_3 and Y_2O_3 doped YFe_2O_3 by a sol-gel process. <i>Sensors and Actuators B: Chemical</i> , 1999 , 61, 33-38	8.5	39
12	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	3.3	16
11	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	3.3	26
10	The Proton and Oxygen Ion Conduction in a NaCl Based Composite Electrolyte. <i>Journal of Materials Science Letters</i> , 1999 , 18, 81-84		10
9	Preparation and Properties of a NiAl_2O_3 Composite by a Sol-Gel Process. <i>Journal of Materials Science Letters</i> , 1999 , 18, 707-710		6
8	Status and future prospects of intermediate, high temperature proton conductor fuel cell. <i>Ionics</i> , 1999 , 5, 70-75	2.7	2
7	Natural salt and fluoride based electrolytes fuel cells. <i>Ionics</i> , 1999 , 5, 472-476	2.7	
6	Investigation on $\text{LiNaSO}_4\text{Al}_2\text{O}_3$ ceramics as electrolytes for H_2/O_2 fuel cells. <i>Materials Research Bulletin</i> , 1999 , 34, 1651-1659	5.1	6
5	Formation and characterization of a new $(\text{Li}_x\text{Ag}_{1-x})_2\text{SO}_4$ (x 0.5) phase. <i>Materials Letters</i> , 1998 , 34, 30-35	3.3	2
4	Preparation and characterization of nanocrystalline $\text{Y-Fe}_2\text{O}_3$ by a sol-gel process. <i>Sensors and Actuators B: Chemical</i> , 1997 , 40, 161-165	8.5	145
3	Structural and Electrical Properties of the Perovskite Oxide $\text{Sr}_2\text{FeNbO}_6$		2
2	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
1	Historical development and novel concepts upon electrolytes for aqueous rechargeable batteries. <i>Energy and Environmental Science</i> ,	35.4	9