

Tianmin He

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78
papers

2,765
citations

31
h-index

50
g-index

80
ext. papers

3,109
ext. citations

6.4
avg, IF

5.24
L-index

#	Paper	IF	Citations
78	Synthesis and characterization of IT-electrolyte with perovskite structure $\text{La}_{0.8}\text{Sr}_{0.2}\text{Ga}_{0.85}\text{Mg}_{0.15}\text{O}_{3-\delta}$ by glycine nitrate combustion method. <i>Journal of Alloys and Compounds</i> , 2003 , 348, 325-331	5.7	150
77	Double-perovskites A_2FeMoO_6 (A = Ca, Sr, Ba) as anodes for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 6356-6366	8.9	138
76	$\text{SmBaCo}_2\text{O}_{5+x}$ double-perovskite structure cathode material for intermediate-temperature solid-oxide fuel cells. <i>Journal of Power Sources</i> , 2008 , 185, 754-758	8.9	138
75	Double-perovskite $\text{PrBaCo}_2/3\text{Fe}_2/3\text{Cu}_2/3\text{O}_{5+\delta}$ as cathode material for intermediate-temperature solid-oxide fuel cells. <i>Journal of Power Sources</i> , 2013 , 234, 244-251	8.9	124
74	Performances of $\text{LnBaCo}_2\text{O}_{5+x}\text{Ce}_{0.8}\text{Sm}_{0.2}\text{O}_{1.9}$ composite cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 2174-2181	8.9	123
73	Novel $\text{SrCo}_1\text{Nb}_y\text{O}_{3-\delta}$ cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 3772-3778	8.9	116
72	Characterization and evaluation of double perovskites $\text{LnBaCoFeO}_{5+\delta}$ (Ln = Pr and Nd) as intermediate-temperature solid oxide fuel cell cathodes. <i>Journal of Power Sources</i> , 2013 , 243, 10-18	8.9	79
71	Composite cathode $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}\text{Sm}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ for intermediate-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2005 , 395, 322-325	5.7	76
70	Nanostructured palladium $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3/\text{Y}_2\text{O}_3/\text{ZrO}_2$ composite anodes for direct methane and ethanol solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008 , 185, 179-182	8.9	74
69	Cobalt-free perovskite cathode materials $\text{SrFe}_{1-x}\text{Ti}_x\text{O}_{3-\delta}$ and performance optimization for intermediate-temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , 2014 , 123, 426-434	6.7	71
68	Novel nano-structured Pd+ytrrium doped ZrO_2 cathodes for intermediate temperature solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2008 , 10, 42-46	5.1	69
67	Electrochemical performances of LaBaCuFeO_{5+x} and LaBaCuCoO_{5+x} as potential cathode materials for intermediate-temperature solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2009 , 11, 80-83	5.1	66
66	Cobalt-free cathode material $\text{SrFe}_{0.9}\text{Nb}_{0.1}\text{O}_{3-\delta}$ for intermediate-temperature solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2010 , 12, 285-287	5.1	58
65	Double-perovskites $\text{YBaCo}_2\text{Fe}_x\text{O}_{5+\delta}$ cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 3729-3735	8.9	57
64	$\text{SrCo}_1\text{Ti}_y\text{O}_{3-\delta}$ as potential cathode materials for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 7420-7425	8.9	56
63	A-site calcium-doped $\text{Pr}_{1-x}\text{Ca}_x\text{BaCo}_2\text{O}_{5+\delta}$ double perovskites as cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016 , 313, 134-141	8.9	51
62	A $\text{K}_2\text{Fe}_4\text{O}_7$ superionic conductor for all-solid-state potassium metal batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8413-8418	13	50

61	Single intermedium-temperature SOFC prepared by glycine-nitrate process. <i>Journal of Alloys and Compounds</i> , 2003 , 353, 257-262	5.7	50
60	Assessment of $\text{LnBaCo}_{1.6}\text{Ni}_{0.4}\text{O}_{5+\delta}$ (Ln=Pr, Nd, and Sm) double-perovskites as cathodes for intermediate-temperature solid-oxide fuel cells. <i>Journal of Power Sources</i> , 2013 , 222, 288-293	8.9	49
59	The effect of Pr co-dopant on the performance of solid oxide fuel cells with Sm-doped ceria electrolyte. <i>Journal of Alloys and Compounds</i> , 2005 , 389, 317-322	5.7	49
58	$\text{La}_{0.7}\text{Ca}_{0.3}\text{CrO}_{3-x}\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{1.9}$ composites as symmetrical electrodes for solid-oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 76-83	8.9	47
57	$\text{NdBaCo}_{2/3}\text{Fe}_{2/3}\text{Cu}_{2/3}\text{O}_{5+\delta}$ double perovskite as a novel cathode material for CeO_2 - and LaGaO_3 -based solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015 , 273, 591-599	8.9	46
56	The effect of Fe doping on the properties of SOFC electrolyte YSZ. <i>Solid State Ionics</i> , 2008 , 179, 1620-1624	3.3	45
55	$\text{Sm}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ cathode material from glycine-nitrate process: Formation, characterization, and application in LaGaO_3 -based solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2008 , 450, 400-404	5.7	44
54	Performance of double-perovskite $\text{Sr}_{2-x}\text{Sm}_x\text{MgMoO}_6$ as solid-oxide fuel-cell anodes. <i>Journal of Power Sources</i> , 2011 , 196, 8352-8359	8.9	39
53	Study on the properties of Al_2O_3 -doped $(\text{ZrO}_2)_{0.92}(\text{Y}_2\text{O}_3)_{0.08}$ electrolyte. <i>Solid State Ionics</i> , 1999 , 126, 277-283	3.3	39
52	Layered Perovskite $\text{GdBaCuCoO}_{5+\delta}$ Cathode Material for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B628	3.9	37
51	Performance of double perovskite symmetrical electrode materials $\text{Sr}_2\text{TiFe}_{1-x}\text{MoO}_6$ ($x = 0.1, 0.2$) for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018 , 263, 217-227	6.7	36
50	Pd-Promoted $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3/\text{YSZ}$ Composite Anodes for Direct Utilization of Methane in SOFCs. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B811	3.9	35
49	Resisting coking and sulfur poisoning of double perovskite $\text{Sr}_2\text{TiFe}_{0.5}\text{Mo}_{0.5}\text{O}_6$ anode material for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3280-3290	6.7	32
48	Pd-impregnated $\text{Sr}_{1.9}\text{VMoO}_6$ double perovskite as an efficient and stable anode for solid-oxide fuel cells operating on sulfur-containing syngas. <i>Electrochimica Acta</i> , 2018 , 274, 91-102	6.7	31
47	Performance of double-perovskite $\text{YBa}_{0.5}\text{Sr}_{0.5}\text{Co}_2\text{O}_{5+\delta}$ as cathode material for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6894-6898	6.7	31
46	Electron doping of $\text{Sr}_2\text{FeMoO}_6$ as high performance anode materials for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 733-743	13	30
45	Stability, compatibility and performance improvement of $\text{SrCo}_{0.8}\text{Fe}_{0.1}\text{Nb}_{0.1}\text{O}_3$ perovskite as a cathode for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4465-4477	6.7	30
44	Electrical conductivity, thermal expansion and electrochemical performances of Ba-doped $\text{SrCo}_{0.9}\text{Nb}_{0.1}\text{O}_3$ cathodes for IT-SOFCs. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 7947-7956	6.7	28

- 43 Improved thermal expansion and electrochemical performances of Ba_{0.6}Sr_{0.4}Co_{0.9}Nb_{0.1}O_{3- δ} La_{0.1}Ce_{0.9}O_{1.95} composite cathodes for IT-SOFCs. *International Journal of Hydrogen Energy*, **2014**, 39, 7972-7979 6.7 28
- 42 SrCo_{0.7}Fe_{0.2}Ta_{0.1}O_{3- δ} perovskite as a cathode material for intermediate-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2014**, 39, 12074-12082 6.7 27
- 41 Cobalt-free double perovskite cathode GdBaFeNiO_{5+ δ} and electrochemical performance improvement by Ce_{0.8}Sm_{0.2}O_{1.9} impregnation for intermediate-temperature solid oxide fuel cells. *Electrochimica Acta*, **2015**, 182, 682-692 6.7 26
- 40 Nanostructured GDC-impregnated La_{0.7}Ca_{0.3}CrO_{3- δ} symmetrical electrodes for solid oxide fuel cells operating on hydrogen and city gas. *International Journal of Hydrogen Energy*, **2011**, 36, 3673-3680 6.7 26
- 39 Combustion synthesis and properties of highly phase-pure perovskite electrolyte Co-doped La_{0.9}Sr_{0.1}Ga_{0.8}Mg_{0.2}O_{2.85} for IT-SOFCs. *International Journal of Hydrogen Energy*, **2010**, 35, 294-300 6.7 26
- 38 A-site deficient (La_{0.6}Sr_{0.4})_{1-x}Co_{0.2}Fe_{0.6}Nb_{0.2}O_{3- δ} symmetrical electrode materials for solid oxide fuel cells. *Electrochimica Acta*, **2018**, 270, 174-182 6.7 25
- 37 Improved electrochemical performance and thermal expansion compatibility of LnBaCoFeO_{5+ δ} Sm_{0.2}Ce_{0.8}O_{1.9} (LnPr and Nd) composite cathodes for IT-SOFCs. *Journal of Alloys and Compounds*, **2016**, 685, 483-491 5.7 25
- 36 Synthesis of nano-sized YSZ powders from glycine-nitrate process and optimization of their properties. *Journal of Alloys and Compounds*, **2005**, 396, 309-315 5.7 25
- 35 Effects of Pr-deficiency on thermal expansion and electrochemical properties in Pr_{1-x}BaCo₂O_{5+ δ} cathodes for IT-SOFCs. *Electrochimica Acta*, **2016**, 212, 522-534 6.7 23
- 34 Preparation, Electrical Conductivity, and Thermal Expansion Behavior of Dense Nd_{1-x}Ca_xCrO₃ Solid Solutions. *Journal of the American Ceramic Society*, **2009**, 92, 2259-2264 3.8 23
- 33 YBaCo₂O_{5+ δ} -based double-perovskite cathodes for intermediate-temperature solid oxide fuel cells with simultaneously improved structural stability and thermal expansion properties. *Electrochimica Acta*, **2019**, 297, 344-354 6.7 23
- 32 Highly carbon- and sulfur-tolerant Sr₂TiMoO_{6- δ} double perovskite anode for solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2019**, 44, 20404-20415 6.7 22
- 31 Ba_{0.95}La_{0.05}Fe_{0.8}Zn_{0.2}O_{3- δ} cobalt-free perovskite as a triple-conducting cathode for proton-conducting solid oxide fuel cells. *Ceramics International*, **2020**, 46, 18216-18223 5.1 22
- 30 Characterization of YSZ electrolyte membrane tubes prepared by a vacuum casting method. *Journal of Alloys and Compounds*, **2002**, 337, 231-236 5.7 22
- 29 Molybdenum-based double perovskites A₂CrMoO₆ (A = Ca, Sr, Ba) as anode materials for solid oxide fuel cells. *Electrochimica Acta*, **2018**, 290, 440-450 6.7 20
- 28 The effects on the structures and properties in the oxide-ion conductor La₂Mo₂O₉ by partial substituting Ba for La. *Journal of Alloys and Compounds*, **2005**, 388, 145-152 5.7 19
- 27 Doped Lanthanum Gallate Film Solid Oxide Fuel Cells Fabricated On a Ni/YSZ Anode Support. *Journal of the American Ceramic Society*, **2006**, 89, 2664-2667 3.8 18
- 26 Performance and optimization of perovskite-type La_{1-x}Ca_xCoMnO_{5+ δ} cathode for intermediate-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2019**, 44, 8467-8478 6.7 16

25	Evaluation and performance optimization of double-perovskite LaSrCoTiO5+ λ cathode for intermediate-temperature solid-oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 21439-21449	6.7	15
24	Structures, electrical and thermal expansion properties of Sr-doped La2Mo2O9 oxide-ion conductors. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 461-466	5.7	12
23	B-site-ordered Co-based double perovskites Sr2Co1-xNb FeO5+ as active and stable cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154470	5.7	11
22	SrCo1-xMo O3 perovskites as cathode materials for LaGaO3-based intermediate-temperature solid oxide fuel cells. <i>Solid State Ionics</i> , 2016 , 288, 32-35	3.3	11
21	The Pr4+ ions in Mg doped PrGaO3 perovskites. <i>Journal of Alloys and Compounds</i> , 2004 , 363, 61-63	5.7	10
20	Layered oxygen-deficient double perovskite GdBaFe2O5+ λ s electrode material for symmetrical solid-oxide fuel cells. <i>Electrochimica Acta</i> , 2021 , 370, 137807	6.7	10
19	Evaluation of Fe and Mn co-doped layered perovskite PrBaCo2/3Fe2/3Mn1/2O5+ as a novel cathode for intermediate-temperature solid-oxide fuel cell. <i>Ceramics International</i> , 2018 , 44, 22489-22496	5.1	10
18	A potential interconnect material for solid oxide fuel cells: Nd0.75Ca0.25Cr0.98O3. <i>Journal of Power Sources</i> , 2010 , 195, 977-983	8.9	9
17	Structures and properties of Sr-doped NdCrO3 solid solutions. <i>Journal of Alloys and Compounds</i> , 2008 , 461, 628-632	5.7	9
16	Assessment of performances of NiTiCuSSGM as anode materials for intermediate-temperature LaGaO3-based solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2005 , 393, 292-298	5.7	9
15	Electrical properties of thin-walled 8 mol% yttria-stabilized zirconia electrolyte tubes prepared by an improved slip casting method. <i>Journal of Alloys and Compounds</i> , 2002 , 333, 231-236	5.7	9
14	Performance of Pd-impregnated Sr1.9FeNb0.9Mo0.1O6- λ double perovskites as symmetrical electrodes for direct hydrocarbon solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 31394-31405	6.7	8
13	Enhanced Stability of BaCoO3-Using Doping Process as a Cathode Material for IT-SOFCs. <i>ECS Transactions</i> , 2017 , 78, 543-550	1	7
12	Sr- and Mo-deficiency Sr1.95TiMo1-xO6- λ double perovskites as anodes for solid-oxide fuel cells using H2S-containing syngas. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23444-23454	6.7	5
11	Characterization and evaluation of Ba-doped Ba x Sr 1-x Co 0.9 Sb 0.1 O 3 λ s cathode materials for LaGaO 3 -based solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6231-6242	6.7	4
10	Preparation and electrochemical performance of cobalt-free cathode material Ba0.5Sr0.5Fe0.9Nb0.1O3 λ for intermediate-temperature solid oxide fuel cells. <i>Chemical Research in Chinese Universities</i> , 2014 , 30, 806-810	2.2	3
9	NdBaFe2-xCoxO5+ λ Double Perovskites with Exsolved CoFe Alloy Nanoparticles as Highly Efficient and Stable Anodes for Direct Hydrocarbon Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 134-145	6.1	3
8	Synergistic electron doping and ion conductive phase incorporating of SrCoO3- as desirable cathode materials for intermediate-temperature solid oxide fuel cells. <i>Ceramics International</i> , 2020 , 46, 28332-28341	5.1	3

7	Enhancing the sinterability and electrical properties of BaZr _{0.1} Ce _{0.7} Y _{0.2} O _{3-δ} proton-conducting ceramic electrolyte. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 329-342	3.8	3
6	Crystallized phosphorus/carbon composites with tunable PC bonds by high pressure and high temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 130, 250-255	3.9	2
5	Formation and characterization of PrGa _{0.9} Mg _{0.1} O ₃ synthesized by a citric acid method. <i>Journal of Alloys and Compounds</i> , 2005 , 393, 274-278	5.7	1
4	Cathodes for Solid Oxide Fuel Cell 2020 , 79-112		0
3	Manipulating the Activity and Thermal Compatibility of NdBaCoFeO _{5+δ} Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells via Fluorine Doping. <i>ACS Applied Energy Materials</i> ,	6.1	0
2	Effect of Two Different ZnO Addition Strategies on the Sinterability and Conductivity of the BaZr _{0.4} Ce _{0.4} Y _{0.2} O _{3-δ} Proton-Conducting Ceramic Electrolyte. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3369-3379	6.1	0
1	Sintering, transport properties and thermal expansion of Cr-deficient Nd _{0.75} Sr _{0.25} Cr _{1-δ} O ₃ solid solutions. <i>Journal of Alloys and Compounds</i> , 2010 , 490, 448-452	5.7	