

Tianmin He

List of Publications by Year in descending order

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79
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3,516
citations

94269

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all docs

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docs citations

80
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.8	168
2	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.	4.0	166
3	$\text{SmBaCo}_2\text{O}_{5+x}$ double-perovskite structure cathode material for intermediate-temperature solid-oxide fuel cells. <i>Journal of Power Sources</i> , 2008, 185, 754-758.	4.0	155
4	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.	4.0	153
5	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.	4.0	143
6	Novel $\text{SrCo}_{1-x}\text{yNb}_y\text{O}_3+\delta$ cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 3772-3778.	4.0	134
7	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.	4.0	107
8	Composite cathode $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ - $\text{Sm}_{0.1}\text{Ce}_{0.9}\text{O}_{1.95}$ -Ag for intermediate-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2005, 395, 322-325.	2.8	88
9	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.	2.6	84
10	Nanostructured palladium- $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_3/\text{Y}_2\text{O}_3$ - ZrO_2 composite anodes for direct methane and ethanol solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008, 185, 179-182.	4.0	80
11	$\text{A}_{2-2x}\text{K}_{2x}\text{Fe}_4\text{O}_{7-x}$ superionic conductor for all-solid-state potassium metal batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8413-8418.	5.2	75
12	Novel nano-structured Pd+yttrium doped ZrO_2 cathodes for intermediate temperature solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2008, 10, 42-46.	2.3	72
13	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.	2.3	72
14	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.	4.0	72
15	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.	2.3	67
16	$\text{SrCo}_{1-x}\text{Ti}_x\text{O}_3+\delta$ as potential cathode materials for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 7420-7425.	4.0	66
17	Double-perovskites $\text{YBaCo}_2+\delta\text{Fe}_x\text{O}_{5+\delta}$ cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 3729-3735.	4.0	62
18	$\text{NdBaCo}_2/3\text{Fe}_2/3\text{Cu}_2/3\text{O}_5+$ 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.	4.0	58

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19	Performance of double perovskite symmetrical electrode materials Sr ₂ TiFe _{1-x} Mo _{0.6} O ₆ (x = 0.1, 0.2) for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018, 263, 217-227.	2.6	58
20	Single intermedium-temperature SOFC prepared by glycine-nitrate process. <i>Journal of Alloys and Compounds</i> , 2003, 353, 257-262.	2.8	57
21	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.	2.8	56
22	The effect of Fe doping on the properties of SOFC electrolyte YSZ. <i>Solid State Ionics</i> , 2008, 179, 1620-1624.	1.3	56
23	Assessment of LnBaCo _{1.6} Ni _{0.4} O ₅₊ (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.	4.0	56
24	Study on the properties of Al ₂ O ₃ -doped (ZrO ₂) _{0.92} (Y ₂ O ₃) _{0.08} electrolyte. <i>Solid State Ionics</i> , 1999, 126, 277-283.	1.3	53
25	A-site deficient (La _{0.6} Sr _{0.4}) _{1-x} Co _{0.2} Fe _{0.6} Nb _{0.2} O ₃ symmetrical electrode materials for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018, 270, 174-182.	2.6	53
26	La _{0.7} Ca _{0.3} CrO _{3-x} Ce _{0.8} Gd _{0.2} O _{1.9} composites as symmetrical electrodes for solid-oxide fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 76-83.	4.0	52
27	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. <i>Ceramics International</i> , 2020, 46, 18216-18223.	2.3	51
28	Sm _{0.5} Sr _{0.5} 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.	2.8	48
29	Performance of double-perovskite Sr _{2-x} Sr _x MgMoO _{6-δ} as solid-oxide fuel-cell anodes. <i>Journal of Power Sources</i> , 2011, 196, 8352-8359.	4.0	45
30	Pd-impregnated Sr _{1.9} 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.	2.6	44
31	Electron doping of Sr _{2-x} FeMoO _{6-δ} as high performance anode materials for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 733-743.	5.2	42
32	Resisting coking and sulfur poisoning of double perovskite Sr ₂ TiFe _{0.5} Mo _{0.5} O _{6-δ} anode material for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3280-3290.	3.8	41
33	Stability, compatibility and performance improvement of SrCo _{0.8} Fe _{0.1} Nb _{0.1} O _{3-δ} perovskite as a cathode for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4465-4477.	3.8	40
34	Pd-Promoted La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ /YSZ Composite Anodes for Direct Utilization of Methane in SOFCs. <i>Journal of the Electrochemical Society</i> , 2008, 155, B811.	1.3	39
35	Layered Perovskite GdBaCuCoO _{5+δ} Cathode Material for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010, 157, B628.	1.3	39
36	Highly carbon- and sulfur-tolerant Sr ₂ TiMoO _{6-δ} double perovskite anode for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20404-20415.	3.8	39

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37	YBaCo ₂ O _{5+δ} -based double-perovskite cathodes for intermediate-temperature solid oxide fuel cells with simultaneously improved structural stability and thermal expansion properties. <i>Electrochimica Acta</i> , 2019, 297, 344-354.	2.6	39
38	Performance of double-perovskite YBa _{0.5} Sr _{0.5} Co ₂ O _{5+δ} as cathode material for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6894-6898.	3.8	37
39	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. <i>Electrochimica Acta</i> , 2015, 182, 682-692.	2.6	35
40	Improved thermal expansion and electrochemical performances of Ba _{0.6} Sr _{0.4} Co _{0.9} Nb _{0.1} O _{3+δ} /Gd _{0.1} Ce _{0.9} O _{1.95} composite cathodes for IT-SOFCs. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7972-7979.	3.8	34
41	Improved electrochemical performance and thermal expansion compatibility of LnBaCoFeO _{5+δ} /Sm _{0.2} Ce _{0.8} O _{1.9} (Ln Pr and Nd) composite cathodes for IT-SOFCs. <i>Journal of Alloys and Compounds</i> , 2016, 685, 483-491.	2.8	34
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. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12074-12082.	3.8	33
43	Effects of Pr-deficiency on thermal expansion and electrochemical properties in Pr _{1-x} BaCo ₂ O _{5+δ} cathodes for IT-SOFCs. <i>Electrochimica Acta</i> , 2016, 212, 522-534.	2.6	33
44	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. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 294-300.	3.8	32
45	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. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3673-3680.	3.8	32
46	Electrical conductivity, thermal expansion and electrochemical performances of Ba-doped SrCo _{0.9} Nb _{0.1} O _{3+δ} cathodes for IT-SOFCs. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7947-7956.	3.8	31
47	Molybdenum-based double perovskites A ₂ CrMoO _{6+δ} (A = Ca, Sr, Ba) as anode materials for solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018, 290, 440-450.	2.6	29
48	The effects on the structures and properties in the oxide-ion conductor La ₂ Mo ₂ O ₉ by partial substituting Ba for La. <i>Journal of Alloys and Compounds</i> , 2005, 388, 145-152.	2.8	28
49	Synthesis of nano-sized YSZ powders from glycine-nitrate process and optimization of their properties. <i>Journal of Alloys and Compounds</i> , 2005, 396, 309-315.	2.8	28
50	Layered oxygen-deficient double perovskite GdBaFe ₂ O _{5+δ} as electrode material for symmetrical solid-oxide fuel cells. <i>Electrochimica Acta</i> , 2021, 370, 137807.	2.6	28
51	Preparation, Electrical Conductivity, and Thermal Expansion Behavior of Dense Nd _{1-x} Ca _x CrO ₃ Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2259-2264.	1.9	26
52	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.	1.9	25
53	Characterization of YSZ electrolyte membrane tubes prepared by a vacuum casting method. <i>Journal of Alloys and Compounds</i> , 2002, 337, 231-236.	2.8	24
54	Evaluation of Fe and Mn co-doped layered perovskite PrBaCo _{2/3} Fe _{2/3} Mn _{1/2} O _{5+δ} as a novel cathode for intermediate-temperature solid-oxide fuel cell. <i>Ceramics International</i> , 2018, 44, 22489-22496.	2.3	24

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55	B ²⁺ site-ordered Co-based double perovskites Sr ₂ Co _{1-x} Nb _x FeO _{5+δ} as active and stable cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154470.	2.8	23
56	Evaluation and performance optimization of double-perovskite LaSrCoTiO _{5+δ} cathode for intermediate-temperature solid-oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21439-21449.	3.8	21
57	Performance and optimization of perovskite-type La _{1-x} Ca _x Co _{0.5} Mn _{0.5} O _{5+δ} cathode for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8467-8478.	3.8	21
58	Doped Lanthanum Gallate Film Solid Oxide Fuel Cells Fabricated On a Ni/YSZ Anode Support. <i>Journal of the American Ceramic Society</i> , 2006, 89, 2664-2667.	1.9	19
59	Sr ²⁺ -Doped Cu Triply Doped BaZr _{0.1} Ce _{0.7} Y _{0.2} O _{3+δ} : A Chemically Stable and Highly Proton-Conductive Electrolyte for Low-Temperature Solid Oxide Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5352-5362.	3.2	18
60	Performance of Pd-impregnated Sr _{1.9} FeNb _{0.9} Mo _{0.1} O _{6+δ} double perovskites as symmetrical electrodes for direct hydrocarbon solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31394-31405.	3.8	17
61	Structures, electrical and thermal expansion properties of Sr-doped La ₂ Mo ₂ O ₉ oxide-ion conductors. <i>Journal of Alloys and Compounds</i> , 2008, 464, 461-466.	2.8	15
62	SrCo _{1-x} Mo _x O ₃ perovskites as cathode materials for LaGaO ₃ -based intermediate-temperature solid oxide fuel cells. <i>Solid State Ionics</i> , 2016, 288, 32-35.	1.3	13
63	Structures and properties of Sr-doped NdCrO ₃ solid solutions. <i>Journal of Alloys and Compounds</i> , 2008, 461, 628-632.	2.8	12
64	The Pr ⁴⁺ ions in Mg doped PrGaO ₃ perovskites. <i>Journal of Alloys and Compounds</i> , 2004, 363, 61-63.	2.8	11
65	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.	2.8	10
66	Assessment of performances of Ni ²⁺ -Cu ²⁺ -LSGM as anode materials for intermediate-temperature LaGaO ₃ -based solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2005, 393, 292-298.	2.8	10
67	Sr- and Mo-deficiency Sr _{1.95} TiMo _{1-x} O _{6+δ} double perovskites as anodes for solid-oxide fuel cells using H ₂ S-containing syngas. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23444-23454.	3.8	10
68	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> , 2022, 5, 481-491.	2.5	10
69	A potential interconnect material for solid oxide fuel cells: Nd _{0.75} Ca _{0.25} Cr _{0.98} O _{3+δ} . <i>Journal of Power Sources</i> , 2010, 195, 977-983.	4.0	9
70	Enhanced Stability of BaCoO _{3-δ} Using Doping Process as a Cathode Material for IT-SOFCs. <i>ECS Transactions</i> , 2017, 78, 543-550.	0.3	9
71	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.	2.5	9
72	Enhanced sintering and electrical properties of proton-conducting electrolytes through Cu doping in BaZr _{0.5} Ce _{0.3} Y _{0.2} O _{3-δ} . <i>Ceramics International</i> , 2022, 48, 11793-11804.	2.3	7

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73	Characterization and evaluation of Ba-doped $Ba_x Sr_{1-x} Co_{0.9} Sb_{0.1} O_{3-\delta}$ as cathode materials for LaGaO ₃ -based solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6231-6242.	3.8	6
74	Crystallized phosphorus/carbon composites with tunable P-C bonds by high pressure and high temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 130, 250-255.	1.9	6
75	Synergistic electron doping and ion conductive phase incorporating of SrCoO ₃ - as desirable cathode materials for intermediate-temperature solid oxide fuel cells. <i>Ceramics International</i> , 2020, 46, 28332-28341.	2.3	6
76	NdBaFe ₂ CoO ₅ Double Perovskites with Exsolved Co-Fe 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.	2.5	6
77	Preparation and electrochemical performance of cobalt-free cathode material Ba _{0.5} Sr _{0.5} Fe _{0.9} Nb _{0.1} O ₃ for intermediate-temperature solid oxide fuel cells. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 806-810.	1.3	3
78	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.	2.8	1
79	Sintering, transport properties and thermal expansion of Cr-deficient Nd _{0.75} Sr _{0.25} Cr ₁ O ₃ solid solutions. <i>Journal of Alloys and Compounds</i> , 2010, 490, 448-452.	2.8	0