Tianmin He

List of Publications by Year in Descending Order

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	Effect of Two Different ZnO Addition Strategies on the Sinterability and Conductivity of the BaZr0.4Ce0.4Y0.2O3 Proton-Conducting Ceramic Electrolyte. *ACS Applied Energy Materials*, **2022**, 5, 3369-3379	6.1	0
77	NdBaFe2 CoxO5+ Double Perovskites with Exsolved Co Fe Alloy Nanoparticles as Highly Efficient and Stable Anodes for Direct Hydrocarbon Solid Oxide Fuel Cells. *ACS Applied Energy Materials*, **2021**, 4, 134-145	6.1	3
76	Enhancing the sinterability and electrical properties of BaZr 0.1 Ce 0.7 Y 0.2 O 3- proton-conducting ceramic electrolyte. *Journal of the American Ceramic Society*, **2021**, 104, 329-342	3.8	3
75	Layered oxygen-deficient double perovskite GdBaFe2O5+ as electrode material for symmetrical solid-oxide fuel cells. *Electrochimica Acta*, **2021**, 370, 137807	6.7	10
74	Cathodes for Solid Oxide Fuel Cell **2020**, 79-112		0
73	B-site-ordered Co-based double perovskites Sr2Co1 Nb FeO5+ as active and stable cathodes for intermediate-temperature solid oxide fuel cells. *Journal of Alloys and Compounds*, **2020**, 829, 154470	5.7	11
72	Ba0.95La0.05Fe0.8Zn0.2O3- cobalt-free perovskite as a triple-conducting cathode for proton-conducting solid oxide fuel cells. *Ceramics International*, **2020**, 46, 18216-18223	5.1	22
71	Sr- and Mo-deficiency Sr1.95TiMo1 O6 double perovskites as anodes for solid-oxide fuel cells using H2S-containing syngas. *International Journal of Hydrogen Energy*, **2020**, 45, 23444-23454	6.7	5
70	Synergistic electron doping and ion conductive phase incorporating of SrCoO3- as desirable cathode materials for intermediate-temperature solid oxide fuel cells. *Ceramics International*, **2020**, 46, 28332-28341	5.1	3
69	Highly carbon and sulfur tolerant Sr2TiMoO6 double perovskite anode for solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2019**, 44, 20404-20415	6.7	22
68	Electron doping of Sr2FeMoO6 as high performance anode materials for solid oxide fuel cells. *Journal of Materials Chemistry A*, **2019**, 7, 733-743	13	30
67	Crystallized phosphorus/carbon composites with tunable PC bonds by high pressure and high temperature. *Journal of Physics and Chemistry of Solids*, **2019**, 130, 250-255	3.9	2
66	Performance and optimization of perovskite-type La1 4Ca0 6CoMnO5+ cathode for intermediate-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2019**, 44, 8467-8478	6.7	16
65	Performance of Pd-impregnated Sr1.9FeNb0.9Mo0.1O6- double perovskites as symmetrical electrodes for direct hydrocarbon solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2019**, 44, 31394-31405	6.7	8
64	YBaCo2O5+ 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
63	Pd-impregnated Sr1.9VMoO6 double perovskite as an efficient and stable anode for solid-oxide fuel cells operating on sulfur-containing syngas. *Electrochimica Acta*, **2018**, 274, 91-102	6.7	31
62	A K2Fe4O7 superionic conductor for all-solid-state potassium metal batteries. *Journal of Materials Chemistry A*, **2018**, 6, 8413-8418	13	50

61	Resisting coking and sulfur poisoning of double perovskite Sr 2 TiFe 0.5 Mo 0.5 O 6 anode material for solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2018**, 43, 3280-3290	6.7	32
60	Performance of double perovskite symmetrical electrode materials Sr2TiFe1 Mo O6 (x = 0.1, 0.2) for solid oxide fuel cells. *Electrochimica Acta*, **2018**, 263, 217-227	6.7	36
59	A-site deficient (La0.6Sr0.4)1 Co0.2Fe0.6Nb0.2O3 symmetrical electrode materials for solid oxide fuel cells. *Electrochimica Acta*, **2018**, 270, 174-182	6.7	25
58	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
57	Evaluation of Fe and Mn co-doped layered perovskite PrBaCo2/3Fe2/3Mn1/2O5+ as a novel cathode for intermediate-temperature solid-oxide fuel cell. *Ceramics International*, **2018**, 44, 22489-22496	5.1	10
56	Characterization and evaluation of Ba-doped Ba x Sr 1 Co 0.9 Sb 0.1 O 3 as cathode materials for LaGaO 3 -based solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2017**, 42, 6231-6242	6.7	4
55	Enhanced Stability of BaCoO3- Using Doping Process as a Cathode Material for IT-SOFCs. *ECS Transactions*, **2017**, 78, 543-550	1	7
54	Stability, compatibility and performance improvement of SrCo0.8Fe0.1Nb0.1O3 perovskite as a cathode for intermediate-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2017**, 42, 4465-4477	6.7	30
53	Effects of Pr-deficiency on thermal expansion and electrochemical properties in Pr1 BaCo2O5+ cathodes for IT-SOFCs. *Electrochimica Acta*, **2016**, 212, 522-534	6.7	23
52	Improved electrochemical performance and thermal expansion compatibility of LnBaCoFeO5+ Sm0.2Ce0.8O1.9 (LnPr and Nd) composite cathodes for IT-SOFCs. *Journal of Alloys and Compounds*, **2016**, 685, 483-491	5.7	25
51	A-site calcium-doped Pr 1 Ca x BaCo 2 O 5+ double perovskites as cathodes for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2016**, 313, 134-141	8.9	51
50	SrCo1 Mo O3 perovskites as cathode materials for LaGaO3-based intermediate-temperature solid oxide fuel cells. *Solid State Ionics*, **2016**, 288, 32-35	3.3	11
49	Evaluation and performance optimization of double-perovskite LaSrCoTiO5+ cathode for intermediate-temperature solid-oxide fuel cells. *International Journal of Hydrogen Energy*, **2016**, 41, 21439-21449	6.7	15
48	Cobalt-free double perovskite cathode GdBaFeNiO5+ and electrochemical performance improvement by Ce0.8Sm0.2O1.9 impregnation for intermediate-temperature solid oxide fuel cells. *Electrochimica Acta*, **2015**, 182, 682-692	6.7	26
47	NdBaCo2/3Fe2/3Cu2/3O5+ double perovskite as a novel cathode material for CeO2- and LaGaO3-based solid oxide fuel cells. *Journal of Power Sources*, **2015**, 273, 591-599	8.9	46
46	Cobalt-free perovskite cathode materials SrFe1 TixO3 and performance optimization for intermediate-temperature solid oxide fuel cells. *Electrochimica Acta*, **2014**, 123, 426-434	6.7	71
45	Preparation and electrochemical performance of cobalt-free cathode material Ba0.5Sr0.5Fe0.9Nb0.1O3 for intermediate-temperature solid oxide fuel cells. *Chemical Research in Chinese Universities*, **2014**, 30, 806-810	2.2	3
44	SrCo0.7Fe0.2Ta0.1O3 perovskite as a cathode material for intermediate-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2014**, 39, 12074-12082	6.7	27

43	Improved thermal expansion and electrochemical performances of Ba0.6Sr0.4Co0.9Nb0.1O3−δ–Gd0.1Ce0.9O1.95 composite cathodes for IT-SOFCs. *International Journal of Hydrogen Energy*, **2014**, 39, 7972-7979	6.7	28
42	Double-perovskite PrBaCo2/3Fe2/3Cu2/3O5+δ as cathode material for intermediate-temperature solid-oxide fuel cells. *Journal of Power Sources*, **2013**, 234, 244-251	8.9	124
41	Assessment of LnBaCo1.6Ni0.4O5+δ (Ln=Pr, Nd, and Sm) double-perovskites as cathodes for intermediate-temperature solid-oxide fuel cells. *Journal of Power Sources*, **2013**, 222, 288-293	8.9	49
40	Electrical conductivity, thermal expansion and electrochemical performances of Ba-doped SrCo0.9Nb0.1O3−δ cathodes for IT-SOFCs. *International Journal of Hydrogen Energy*, **2013**, 38, 7947-7956	6.7	28
39	Characterization and evaluation of double perovskites LnBaCoFeO 5+δ (Ln = Pr and Nd) as intermediate-temperature solid oxide fuel cell cathodes. *Journal of Power Sources*, **2013**, 243, 10-18	8.9	79
38	Performance of double-perovskite Sr2−xSmxMgMoO6−δ as solid-oxide fuel-cell anodes. *Journal of Power Sources*, **2011**, 196, 8352-8359	8.9	39
37	Nanostructured GDC-impregnated La0.7Ca0.3CrO3−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
36	Performance of double-proveskite YBa0.5Sr0.5Co2O5+δ as cathode material for intermediate-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 6894-6898	6.7	31
35	La0.7Ca0.3CrO3−δ–Ce0.8Gd0.2O1.9 composites as symmetrical electrodes for solid-oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 76-83	8.9	47
34	Double-perovskites YBaCo2−xFexO5+δ cathodes for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 3729-3735	8.9	57
33	SrCo1−yTiyO3−δ as potential cathode materials for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 7420-7425	8.9	56
32	Layered Perovskite GdBaCuCoO[sub 5+δ] Cathode Material for Intermediate-Temperature Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2010**, 157, B628	3.9	37
31	Sintering, transport properties and thermal expansion of Cr-deficient Nd0.75Sr0.25Cr1−xO3 solid solutions. *Journal of Alloys and Compounds*, **2010**, 490, 448-452	5.7	
30	Performances of LnBaCo2O5+x–Ce0.8Sm0.2O1.9 composite cathodes for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 2174-2181	8.9	123
29	Novel SrCo1−yNbyO3−δ cathodes for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 3772-3778	8.9	116
28	Double-perovskites A2FeMoO6−δ (A = Ca, Sr, Ba) as anodes for solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 6356-6366	8.9	138
27	A potential interconnect material for solid oxide fuel cells: Nd0.75Ca0.25Cr0.98O3−δ *Journal of Power Sources*, **2010**, 195, 977-983	8.9	9
26	Combustion synthesis and properties of highly phase-pure perovskite electrolyte Co-doped La0.9Sr0.1Ga0.8Mg0.2O2.85 for IT-SOFCs. *International Journal of Hydrogen Energy*, **2010**, 35, 294-300	6.7	26

25	Cobalt-free cathode material SrFe0.9Nb0.1O3 for intermediate-temperature solid oxide fuel cells. *Electrochemistry Communications*, **2010**, 12, 285-287	5.1	58
24	Preparation, Electrical Conductivity, and Thermal Expansion Behavior of Dense Nd1−xCaxCrO3 Solid Solutions. *Journal of the American Ceramic Society*, **2009**, 92, 2259-2264	3.8	23
23	Electrochemical performances of LaBaCuFeO5+x and LaBaCuCoO5+x as potential cathode materials for intermediate-temperature solid oxide fuel cells. *Electrochemistry Communications*, **2009**, 11, 80-83	5.1	66
22	Sm0.5Sr0.5CoO3 cathode material from glycine-nitrate process: Formation, characterization, and application in LaGaO3-based solid oxide fuel cells. *Journal of Alloys and Compounds*, **2008**, 450, 400-404	5.7	44
21	Structures and properties of Sr-doped NdCrO3 solid solutions. *Journal of Alloys and Compounds*, **2008**, 461, 628-632	5.7	9
20	Structures, electrical and thermal expansion properties of Sr-doped La2Mo2O9 oxide-ion conductors. *Journal of Alloys and Compounds*, **2008**, 464, 461-466	5.7	12
19	Pd-Promoted La[sub 0.75]Sr[sub 0.25]Cr[sub 0.5]Mn[sub 0.5]O[sub 3]/YSZ Composite Anodes for Direct Utilization of Methane in SOFCs. *Journal of the Electrochemical Society*, **2008**, 155, B811	3.9	35
18	Nanostructured palladium–La0.75Sr0.25Cr0.5Mn0.5O3/Y2O3–ZrO2 composite anodes for direct methane and ethanol solid oxide fuel cells. *Journal of Power Sources*, **2008**, 185, 179-182	8.9	74
17	SmBaCo2O5+x double-perovskite structure cathode material for intermediate-temperature solid-oxide fuel cells. *Journal of Power Sources*, **2008**, 185, 754-758	8.9	138
16	The effect of Fe doping on the properties of SOFC electrolyte YSZ. *Solid State Ionics*, **2008**, 179, 1620-1624	3.5	45
15	Novel nano-structured Pd+yttrium doped ZrO2 cathodes for intermediate temperature solid oxide fuel cells. *Electrochemistry Communications*, **2008**, 10, 42-46	5.1	69
14	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
13	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
12	The effect of Pr co-dopant on the performance of solid oxide fuel cells with Sm-doped ceria electrolyte. *Journal of Alloys and Compounds*, **2005**, 389, 317-322	5.7	49
11	Formation and characterization of PrGa0.9Mg0.1O3 synthesized by a citric acid method. *Journal of Alloys and Compounds*, **2005**, 393, 274-278	5.7	1
10	Assessment of performances of Ni–Cu–SGM as anode materials for intermediate-temperature LaGaO3-based solid oxide fuel cells. *Journal of Alloys and Compounds*, **2005**, 393, 292-298	5.7	9
9	Composite cathode La0.6Sr0.4Co0.2Fe0.8O3–Sm0.1Ce0.9O1.95–Ag for intermediate-temperature solid oxide fuel cells. *Journal of Alloys and Compounds*, **2005**, 395, 322-325	5.7	76
8	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

7	The Pr4+ ions in Mg doped PrGaO3 perovskites. *Journal of Alloys and Compounds*, **2004**, 363, 61-63	5.7	10
6	Synthesis and characterization of IT-electrolyte with perovskite structure La0.8Sr0.2Ga0.85Mg0.15O3 by glycine nitrate combustion method. *Journal of Alloys and Compounds*, **2003**, 348, 325-331	5.7	150
5	Single intermedium-temperature SOFC prepared by glycine nitrate process. *Journal of Alloys and Compounds*, **2003**, 353, 257-262	5.7	50
4	Electrical properties of thin-walled 8 mol% yttria-stabilized zirconia electrolyte tubes prepared by an improved slip casting method. *Journal of Alloys and Compounds*, **2002**, 333, 231-236	5.7	9
3	Characterization of YSZ electrolyte membrane tubes prepared by a vacuum casting method. *Journal of Alloys and Compounds*, **2002**, 337, 231-236	5.7	22
2	Study on the properties of Al2O3-doped (ZrO2)0.92(Y2O3)0.08 electrolyte. *Solid State Ionics*, **1999**, 126, 277-283	3.3	39
1	Manipulating the Activity and Thermal Compatibility of NdBaCoFeO5+ Cathodes for Intermediate-Temperature Solid Oxide Fuel Cells via Fluorine Doping. *ACS Applied Energy Materials*,	6.1	0