Bin Lin

List of Publications by Year
in descending order

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111 papers	4,064 citations	101384 36 h-index	133063 59 g-index
114 all docs	114 docs citations	114 times ranked	3610 citing authors

#	Article	IF	Citations
1	Shaping triple-conducting semiconductor BaCo0.4Fe0.4Zr0.1Y0.1O3-Î´ into an electrolyte for low-temperature solid oxide fuel cells. Nature Communications, 2019, 10, 1707.	5.8	218
2	Ultrathin Cu₂O as an efficient inorganic hole transporting material for perovskite solar cells. Nanoscale, 2016, 8, 6173-6179.	2.8	191
3	High Yield Synthesis of Bracelet-like Hydrophilic Niâ"Co Magnetic Alloy Flux-Closure Nanorings. Journal of the American Chemical Society, 2008, 130, 11606-11607.	6.6	164
4	An ammonia fuelled SOFC with a BaCe0.9Nd0.1O3â"Î´ thin electrolyte prepared with a suspension spray. Journal of Power Sources, 2007, 170, 38-41.	4.0	112
5	High performance of proton-conducting solid oxide fuel cell with a layered PrBaCo2O5+Î´ cathode. Journal of Power Sources, 2009, 194, 835-837.	4.0	109
6	Magnetic field-induced solvothermal synthesis of one-dimensional assemblies of Ni-Co alloy microstructures. Nano Research, 2008, 1, 303-313.	5.8	108
7	A novel facile strategy to suppress Sr segregation for high-entropy stabilized La0Â·8Sr0Â·2MnO3-Î´ cathode. Journal of Power Sources, 2021, 482, 228959.	4.0	102
8	Recycling of fly ash for preparing porous mullite membrane supports with titania addition. Journal of Hazardous Materials, 2010, 180, 173-180.	6.5	99
9	High performance proton-conducting solid oxide fuel cells with a stable Sm0.5Sr0.5Co3â"Î´â€"Ce0.8Sm0.2O2â"Î´ composite cathode. Journal of Power Sources, 2010, 195, 3155-3158.	4.0	95
10	Investigation of cobalt-free cathode material Sm0.5Sr0.5Fe0.8Cu0.2O3â"Î´ for intermediate temperature solid oxide fuel cell. International Journal of Hydrogen Energy, 2010, 35, 6905-6910.	3.8	93
11	Reaction-sintered porous mineral-based mullite ceramic membrane supports made from recycled materials. Journal of Hazardous Materials, 2009, 172, 180-186.	6.5	92
12	Prontonic ceramic membrane fuel cells with layered GdBaCo2O5+x cathode prepared by gel-casting and suspension spray. Journal of Power Sources, 2008, 177, 330-333.	4.0	87
13	Morphology and electrochemical performance of Li[Ni1/3Co1/3Mn1/3]O2 cathode material by a slurry spray drying method. Journal of Power Sources, 2008, 175, 564-569.	4.0	81
14	Intermediate-to-low temperature protonic ceramic membrane fuel cells with Ba0.5Sr0.5Co0.8Fe0.2O3-Î´â€"BaZr0.1Ce0.7Y0.2O3-Î´ composite cathode. Journal of Power Sources, 2009, 186, 58-61.	4.0	77
15	Rational Design of Antifouling Polymeric Nanocomposite for Sustainable Fluoride Removal from NOM-Rich Water. Environmental Science & Technology, 2017, 51, 13363-13371.	4.6	77
16	Mo-doped Pr 0.6 Sr 0.4 Fe 0.8 Ni 0.2 O 3-Î´ as potential electrodes for intermediate-temperature symmetrical solid oxide fuel cells. Electrochimica Acta, 2017, 227, 33-40.	2.6	73
17	High performance protonic ceramic membrane fuel cells (PCMFCs) with Ba0.5Sr0.5Zn0.2Fe0.8O3â"Î´ perovskite cathode. Electrochemistry Communications, 2008, 10, 1388-1391.	2.3	71
18	In situ screen-printed BaZr0.1Ce0.7Y0.2O3â"Î´ electrolyte-based protonic ceramic membrane fuel cells with layered SmBaCo2O5+x cathode. Journal of Power Sources, 2009, 186, 446-449.	4.0	67

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19	Surface modification of g-C3N4 by hydrazine: Simple way for noble-metal free hydrogen evolution catalysts. Chemical Engineering Journal, 2016, 286, 339-346.	6.6	67
20	A cobalt-free Sm0.5Sr0.5Fe0.8Cu0.2O3â^Î´â€“Ce0.8Sm0.2O2â^Î´ composite cathode for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2011, 196, 2631-2634.	4.0	66
21	Simple solid oxide fuel cells. Journal of Alloys and Compounds, 2010, 490, 214-222.	2.8	55
22	Enhanced performance of symmetrical solid oxide fuel cells using a doped ceria buffer layer. Electrochimica Acta, 2016, 208, 318-324.	2.6	53
23	Novel quasi-symmetric solid oxide fuel cells with enhanced electrochemical performance. Journal of Power Sources, 2016, 310, 109-117.	4.0	53
24	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. Advanced Energy Materials, 2019, 9, 1803627.	10.2	53
25	A high-entropy perovskite cathode for solid oxide fuel cells. Journal of Alloys and Compounds, 2021, 872, 159633.	2.8	53
26	A cobalt-free SrFe0.9Sb0.1O3â^Î´ cathode material for proton-conducting solid oxide fuel cells with stable BaZr0.1Ce0.7Y0.1Yb0.1O3â^Î´ electrolyte. Journal of Power Sources, 2010, 195, 7042-7045.	4.0	48
27	Stable, easily sintered BaCe0.5Zr0.3Y0.16Zn0.04O3â^Î´ electrolyte-based protonic ceramic membrane fuel cells with Ba0.5Sr0.5Zn0.2Fe0.8O3â^Î´ perovskite cathode. Journal of Power Sources, 2008, 183, 479-484.	4.0	46
28	Effects of organic acids of different molecular size on phosphate removal by HZO-201 nanocomposite. Chemosphere, 2017, 166, 422-430.	4.2	43
29	Surface Functionalization of gâ€C₃N₄: Molecularâ€Level Design of Nobleâ€Metalâ€Free Hydrogen Evolution Photocatalysts. Chemistry - A European Journal, 2015, 21, 10290-10295.	1.7	42
30	Progress in Ni-based anode materials for direct hydrocarbon solid oxide fuel cells. Journal of Materials Science, 2018, 53, 8747-8765.	1.7	42
31	Exploiting rare-earth-abundant layered perovskite cathodes of LnBa0.5Sr0.5Co1.5Fe0.5O5+Î´ (Ln=La and) Tj ETQq1 1 0.784314 rgBT	3.8	42
32	Reduced-temperature redox-stable LSM as a novel symmetrical electrode material for SOFCs. Electrochimica Acta, 2018, 260, 121-128.	2.6	42
33	Ag₂S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. ACS Applied Energy Materials, 2019, 2, 2751-2759.	2.5	40
34	Highly promoted performance of triple-conducting cathode for YSZ-based SOFC via fluorine anion doping. Ceramics International, 2020, 46, 23964-23971.	2.3	40
35	Layered perovskite LaBaCuMO5+x (M=Fe, Co) cathodes for intermediate-temperature protonic ceramic membrane fuel cells. Journal of Alloys and Compounds, 2010, 493, 252-255.	2.8	39
36	Numerical investigation on impacts on fuel velocity distribution nonuniformity among solid oxide fuel cell unit channels. International Journal of Hydrogen Energy, 2015, 40, 3035-3047.	3.8	39

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37	High sintering activity Cuâ€“Gd co-doped CeO2 electrolyte for solid oxide fuel cells. Journal of Power Sources, 2010, 195, 6510-6515.	4.0	38
38	Highly permeable porous YSZ hollow fiber membrane prepared using ethanol as external coagulant. Journal of Alloys and Compounds, 2010, 494, 366-371.	2.8	37
39	Numerical simulation of cell-to-cell performance variation within a syngas-fuelled planar solid oxide fuel cell stack. Applied Thermal Engineering, 2017, 114, 653-662.	3.0	37
40	A Zn-Doped Ba0.5Sr0.5Co0.8Fe0.2O3-Î´ Perovskite Cathode with Enhanced ORR Catalytic Activity for SOFCs. Catalysts, 2020, 10, 235.	1.6	37
41	Enhanced ORR activity of A-site deficiency engineered BaCo0Â·4Fe0Â·4Zr0Â·1Y0Â·1O3-Î´ cathode in practical YSZ fuel cells. International Journal of Hydrogen Energy, 2021, 46, 5593-5603.	3.8	37
42	Asymmetric porous cordierite hollow fiber membrane for microfiltration. Journal of Alloys and Compounds, 2009, 487, 631-638.	2.8	36
43	A cobalt-free Sm0.5Sr0.5FeO3â^'Î´â€“BaZr0.1Ce0.7Y0.2O3â^'Î´ composite cathode for proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2012, 37, 8630-8634.	3.8	35
44	Fabrication of Li2TiO3 pebbles by water-based solâ€“gel method. Fusion Engineering and Design, 2008, 83, 112-116.	1.0	34
45	A modified suspension spray combined with particle gradation method for preparation of protonic ceramic membrane fuel cells. Journal of Power Sources, 2008, 179, 576-583.	4.0	33
46	A cathode-supported SOFC with thin Ce0.8Sm0.2O1.9 electrolyte prepared by a suspension spray. Journal of Alloys and Compounds, 2008, 465, 285-290.	2.8	33
47	Screen-printed BaCe0.8Sm0.2O3â^'Î´ thin membrane solid oxide fuel cells with surface modification by spray coating. Journal of Alloys and Compounds, 2009, 473, 48-52.	2.8	33
48	Thin yttria-stabilized zirconia electrolyte and transition layers fabricated by particle suspension spray. Journal of Power Sources, 2007, 164, 567-571.	4.0	31
49	SrCo0.9Sb0.1O3â^'Î´ cubic perovskite as a novel cathode for intermediate-to-low temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2009, 472, 556-558.	2.8	30
50	Low-temperature solid oxide fuel cells with novel La0.6Sr0.4Co0.8Cu0.2O3â^'Î´ perovskite cathode and functional graded anode. Journal of Power Sources, 2010, 195, 1624-1629.	4.0	29
51	Layered SmBaCuCoO5+ and SmBaCuFeO5+ perovskite oxides as cathode materials for proton-conducting SOFCs. Journal of Alloys and Compounds, 2010, 492, 291-294.	2.8	29
52	Preparation and electrochemical properties of Li[Ni1/3Co1/3Mn1â^'x/3Zrx/3]O2 cathode materials for Li-ion batteries. Journal of Power Sources, 2007, 174, 544-547.	4.0	28
53	Superior trichloroethylene removal from water by sulfide-modified nanoscale zero-valent iron/graphene aerogel composite. Journal of Environmental Sciences, 2020, 88, 90-102.	3.2	28
54	Improving stability and electrochemical performance of Ba0.5Sr0.5Co0.2Fe0.8O3-Î´ electrode for symmetrical solid oxide fuel cells by Mo doping. Journal of Alloys and Compounds, 2020, 831, 154711.	2.8	27

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55	Fabrication and improvement of the density of Li2TiO3 pebbles by the optimization of a solâ€“gel method. Journal of Nuclear Materials, 2009, 393, 186-191.	1.3	25
56	(La, Pr)0.8Sr0.2FeO3â^'â€“Sm0.2Ce0.8O2â^' composite cathode for proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2014, 39, 13665-13670.	3.8	25
57	Comparative study of electrochemical properties of different composite cathode materials associated to stable proton conducting BaZr 0.7 Pr 0.1 Y 0.2 O 3-Î´ electrolyte. Electrochimica Acta, 2014, 146, 1-7.	2.6	25
58	Cost-effective tubular cordierite micro-filtration membranes processed by co-sintering. Journal of Alloys and Compounds, 2009, 477, L35-L40.	2.8	24
59	Evaluation of simple, easily sintered La0.7Ca0.3Cr0.97 O3â^'Î´ perovskite oxide as novel interconnect material for solid oxide fuel cells. Journal of Alloys and Compounds, 2009, 479, 764-768.	2.8	24
60	Preparation and characterization of carbon-coated Li[Ni1/3Co1/3Mn1/3]O2 cathode material for lithium-ion batteries. Journal of Solid State Electrochemistry, 2010, 14, 1807-1811.	1.2	24
61	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with SrCo0.9Sb0.1O3â^'Î´ cubic perovskite cathode. Journal of Power Sources, 2008, 185, 937-940.	4.0	23
62	Improvement of the performances of tubular solid oxide fuel cells by optimizing co-sintering temperature of the NiO/YSZ anode-YSZ electrolyte double layers. Journal of Power Sources, 2007, 171, 495-498.	4.0	22
63	Characterization and polarization DRT analysis of a stable and highly active proton-conducting cathode. Ceramics International, 2018, 44, 14297-14302.	2.3	22
64	Highly active self-assembled hybrid catalyst with multiphase heterointerfaces to accelerate cathodic oxygen reduction of intermediate-temperature solid oxide fuel cells. Ceramics International, 2020, 46, 9661-9668.	2.3	22
65	Potentiality of cobalt-free perovskite Ba0.5Sr0.5Fe0.9Mo0.1O3â^'Î´ as a single-phase cathode for intermediate-to-low-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2013, 38, 14323-14328.	3.8	21
66	Enhance coking tolerance of high-performance direct carbon dioxide-methane solid oxide fuel cells with an additional internal reforming catalyst. Journal of Power Sources, 2021, 512, 230533.	4.0	21
67	A promising cathode for proton-conducting intermediate temperature solid oxide fuel cells: Y0.8Ca0.2BaCo4O7+Î´. Ceramics International, 2015, 41, 6687-6692.	2.3	19
68	A robust carbon tolerant anode for solid oxide fuel cells. Science China Materials, 2015, 58, 204-212.	3.5	19
69	An efficient and prospective self-assembled hybrid electrocatalyst for symmetrical and reversible solid oxide cells. Electrochimica Acta, 2020, 362, 137171.	2.6	19
70	A new A-site excessive strategy to improve performance of layered perovskite cathode for intermediate-temperature solid oxide fuel cells. Electrochimica Acta, 2017, 231, 686-693.	2.6	18
71	Evaluation of electrical conductivity and oxygen diffusivity of the typical Ruddlesden-Popper oxide Sr3Fe2O7-. Ceramics International, 2017, 43, 16264-16269.	2.3	18
72	g-C3N4/TiO2 hybrid film on the metal surface, a cheap and efficient sunlight active photoelectrochemical anticorrosion coating. Journal of Materials Science: Materials in Electronics, 2019, 30, 12710-12717.	1.1	18

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73	Combustion synthesis and characterization of Cuâ€“Sm co-doped CeO2 electrolytes. Journal of the European Ceramic Society, 2011, 31, 2365-2376.	2.8	17
74	New insights into the fractionation of effluent organic matter on diagnosis of key composition affecting advanced phosphate removal by Zr-based nanocomposite. Water Research, 2020, 186, 116299.	5.3	17
75	Fabrication of dense LaCrO3-based interconnect thin membrane on anode substrates by co-firing. Materials Research Bulletin, 2009, 44, 2127-2133.	2.7	16
76	BaZr0.1Ce0.7Y0.2O3â˜Î´ proton-conducting electrolyte prepared by gel-casting for low-temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2009, 474, 364-369.	2.8	16
77	Tuning Ba0.5Sr0.5Co0.8Fe0.2O3-Î´ cathode to high stability and activity via Ce-doping for ceramic fuel cells. Ceramics International, 2022, 48, 31418-31427.	2.3	14
78	Development of a novel type of composite cathode material for proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2012, 37, 5940-5945.	3.8	13
79	A robust NiOâ€“Sm0.2Ce0.8O1.9 anode for direct-methane solid oxide fuel cell. Materials Research Bulletin, 2015, 71, 1-6.	2.7	13
80	Improved performance of symmetrical solid oxide fuel cells with redox-reversible cermet electrodes. Materials Letters, 2017, 188, 413-416.	1.3	12
81	Highly sulfur poisoning-tolerant BaCeO₃-impregnated La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â˜Î´} cathodes for solid oxide fuel cells. Journal Physics D: Applied Physics, 2018, 51, 435502.	1.3	12
82	Control of endwall secondary flow in a compressor cascade with dielectric barrier discharge plasma actuation. Science in China Series D: Earth Sciences, 2009, 52, 3715-3721.	0.9	11
83	Preparation and characterization of Ba0.5Sr0.5Fe0.9Ni0.1O3â˜Îâ€“Sm0.2Ce0.8O1.9 compose cathode for proton-conducting solid oxide fuel cells. International Journal of Hydrogen Energy, 2012, 37, 9830-9835.	3.8	11
84	Layered perovskite oxide Y0.8Ca0.2BaCoFeO5+Î´ as a novel cathode material for intermediate-temperature solid oxide fuel cells. Journal of Rare Earths, 2015, 33, 519-523.	2.5	11
85	New Gd-Zn co-doping enhanced mechanical properties of BaZrO3 proton conductors with high conductivity for IT-SOFCs. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 238-239, 76-82.	1.7	11
86	Phase stability and hydrogen permeation performance of BaCo0Â·4Fe0Â·4Zr0Â·1Y0Â·1O3-Î´ ceramic membranes. Ceramics International, 2022, 48, 9946-9954.	2.3	10
87	Enhancing performance and stability of symmetrical solid oxide fuel cells via quasi-symmetrical ceria-based buffer layers. Ceramics International, 2022, 48, 27509-27515.	2.3	10
88	Stable, easily sintered BaCe0.5Zr0.3Y0.16Zn0.04O3â˜Î´ electrolyte-based proton-conducting solid oxide fuel cells by gel-casting and suspension spray. Journal of Alloys and Compounds, 2009, 478, 590-593.	2.8	9
89	A simple Ce-doping strategy to enhance stability of hybrid symmetrical electrode for solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 29259-29270.	3.8	9
90	Predicting Perovskite Performance with Multiple Machine-Learning Algorithms. Crystals, 2021, 11, 818.	1.0	9

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91	One stable electrocatalyst for two evolution reactions by one-pot combustion synthesis. International Journal of Hydrogen Energy, 2020, 45, 22691-22699.	3.8	8
92	CrI₃/Y₂CH₂ Heterointerface-Induced Stable Half-Metallicity of Two-Dimensional CrI₃ Monolayer Ferromagnets. ACS Applied Materials & Interfaces, 2021, 13, 16694-16703.	4.0	8
93	Nanoengineering electrode for yttria-stabilized zirconia-based symmetrical solid oxide fuel cells to achieve superior output performance. Separation and Purification Technology, 2022, 295, 121174.	3.9	8
94	Understanding the Surface of g-C3N4, an Experimental Investigation of the Catalytic Active Site on the Interface. Catalysis Letters, 2019, 149, 3296-3303.	1.4	7
95	A simple, feasible, and non-hazardous laboratory evaluation of direct ammonia solid oxide fuel cells fueled by aqueous ammonia. Separation and Purification Technology, 2022, 297, 121511.	3.9	7
96	Promoted Performance of Layered Perovskite PrBaFe2O5+Î´ Cathode for Protonic Ceramic Fuel Cells by Zn Doping. Catalysts, 2022, 12, 488.	1.6	6
97	A stable Zr-Y co-doped perovskite BaCo0.4Fe0.4Zr0.1Y0.1O3â¯Î´ ceramic membrane for highly efficient oxygen separation. Separation and Purification Technology, 2022, 295, 121206.	3.9	6
98	Mechanical strengthening of Sm-doped CeO2 ceramics by 1mol% cobalt oxide for solid oxide fuel cell application. Journal of Power Sources, 2011, 196, 8402-8405.	4.0	5
99	Alkaline-earth-free quasi-ternary La(Co, Ni, Fe)O3â¯Î´ perovskite as potential cathode for solid oxide fuel cells. Materials Research Express, 2019, 6, 096310.	0.8	5
100	Influences of equal A-site rare-deficiency or B-site high-valent metal doping on NdBaFe2O employed as the symmetrical electrode for solid oxide fuel cells. Journal of Alloys and Compounds, 2022, 918, 165368.	2.8	5
101	Synthesis and characterization of a Sr0.95Y0.05TiO3â¯Î´-based hydrogen electrode for reversible solid oxide cells. RSC Advances, 2015, 5, 17000-17006.	1.7	4
102	SrCo0.9Sb0.1O3â€“Î´ cubic perovskite as a novel cathode for intermediate-to-low temperature SOFCs. Fuel Cells Bulletin, 2009, 2009, 12-15.	0.7	3
103	Stable and easily sintered (Pr0.5Nd0.5)0.7Ca0.3CrO3â¯Î´/Sm0.2Ce0.8O1.9 composite interconnect materials for IT-solid oxide fuel cells. Journal of Power Sources, 2011, 196, 2075-2079.	4.0	2
104	PVA-assisted synthesis and characterization of nano-crystalline La3+ and Mg2+ co-doped CeO2 electrolyte for intermediate-temperature solid oxide fuel cells. Ionics, 2013, 19, 343-349.	1.2	2
105	Frontispiece: Surface Functionalization of g-C3N4: Molecular-Level Design of Noble-Metal-Free Hydrogen Evolution Photocatalysts. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	1
106	A new in-situ-grown Ni-Sr2WO5â¯Î´ cermet to enhance coking tolerance of direct-hydrocarbon solid oxide fuel cells. Materials Letters, 2021, 301, 130301.	1.3	1
107	Fly ash to improve density and ionic conductivity of solid oxide cell electrolytes. Materials Today Communications, 2022, , 103546.	0.9	1
108	Micro-Tubular Solid Oxide Fuel Cell with Asymmetric Structure Anode and La_{0.6}Sr_{0.4}Co_{0.8}Cu_{0.2}O_{3â¯Î´} Perovskite Cathode. Advanced Materials Research, 2011, 197-198, 672-676.	0.3	0

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109	Preparation and Investigation of Cu Doped(Pr_{0.5}Nd_{0.5})_{0.7}Ca_{0.3}CrO₃Ceramic Interconnect Materials. Applied Mechanics and Materials, 0, 448-453, 2950-2958.		0
110	CO2-Stable Alkaline-Earth-Free Solid Oxide Fuel Cells with Ni0.7Co0.3O-Ce0.8Sm0.2O1.9Composite Cathodes. ECS Transactions, 2017, 78, 489-497.	0.3	0
111	Lowering the sintering temperature of low-temperature solid oxide fuel cells with Sm3+ and Nd3+ co-doped ceria electrolyte. , 2017, , .		0