Bin Lin

List of Publications by Citations

107 papers	3,009 citations	31 h-index	50 g-index
114 ext. papers	3,523 ext. citations	6.6 avg, IF	5.15 L-index

#	Paper	IF	Citations
107	Ultrathin Cu2O as an efficient inorganic hole transporting material for perovskite solar cells. *Nanoscale*, **2016**, 8, 6173-9	7.7	157
106	High yield synthesis of bracelet-like hydrophilic Ni-Co magnetic alloy flux-closure nanorings. *Journal of the American Chemical Society*, **2008**, 130, 11606-7	16.4	152
105	Shaping triple-conducting semiconductor BaCoFeZrYO into an electrolyte for low-temperature solid oxide fuel cells. *Nature Communications*, **2019**, 10, 1707	17.4	111
104	Magnetic field-induced solvothermal synthesis of one-dimensional assemblies of Ni-Co alloy microstructures. *Nano Research*, **2008**, 1, 303-313	10	98
103	High performance of proton-conducting solid oxide fuel cell with a layered PrBaCo2O5+□cathode. *Journal of Power Sources*, **2009**, 194, 835-837	8.9	96
102	An ammonia fuelled SOFC with a BaCe0.9Nd0.1O3□thin electrolyte prepared with a suspension spray. *Journal of Power Sources*, **2007**, 170, 38-41	8.9	95
101	High performance proton-conducting solid oxide fuel cells with a stable Sm0.5Sr0.5Co3□Ce0.8Sm0.2O2□composite cathode. *Journal of Power Sources*, **2010**, 195, 3155-3158	8.9	87
100	Recycling of fly ash for preparing porous mullite membrane supports with titania addition. *Journal of Hazardous Materials*, **2010**, 180, 173-80	12.8	80
99	Investigation of cobalt-free cathode material Sm0.5Sr0.5Fe0.8Cu0.2O3□for intermediate temperature solid oxide fuel cell. *International Journal of Hydrogen Energy*, **2010**, 35, 6905-6910	6.7	80
98	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	8.9	77
97	Reaction-sintered porous mineral-based mullite ceramic membrane supports made from recycled materials. *Journal of Hazardous Materials*, **2009**, 172, 180-6	12.8	73
96	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	8.9	73
95	High performance protonic ceramic membrane fuel cells (PCMFCs) with Ba0.5Sr0.5Zn0.2Fe0.8O3□perovskite cathode. *Electrochemistry Communications*, **2008**, 10, 1388-1391	5.1	67
94	Intermediate-to-low temperature protonic ceramic membrane fuel cells with Ba0.5Sr0.5Co0.8Fe0.2O3-□BaZr0.1Ce0.7Y0.2O3-□composite cathode. *Journal of Power Sources*, **2009**, 186, 58-61	8.9	65
93	In situ screen-printed BaZr0.1Ce0.7Y0.2O3□electrolyte-based protonic ceramic membrane fuel cells with layered SmBaCo2O5+x cathode. *Journal of Power Sources*, **2009**, 186, 446-449	8.9	60
92	Surface modification of g-C3N4 by hydrazine: Simple way for noble-metal free hydrogen evolution catalysts. *Chemical Engineering Journal*, **2016**, 286, 339-346	14.7	57
91	A cobalt-free Sm0.5Sr0.5Fe0.8Cu0.2O3□Ce0.8Sm0.2O2□composite cathode for proton-conducting solid oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 2631-2634	8.9	56

90	Mo-doped Pr 0.6 Sr 0.4 Fe 0.8 Ni 0.2 O 3-□as potential electrodes for intermediate-temperature symmetrical solid oxide fuel cells. *Electrochimica Acta*, **2017**, 227, 33-40	6.7	55
89	Rational Design of Antifouling Polymeric Nanocomposite for Sustainable Fluoride Removal from NOM-Rich Water. *Environmental Science & Technology*, **2017**, 51, 13363-13371	10.3	50
88	Simple solid oxide fuel cells. *Journal of Alloys and Compounds*, **2010**, 490, 214-222	5.7	49
87	A cobalt-free SrFe0.9Sb0.1O3□cathode material for proton-conducting solid oxide fuel cells with stable BaZr0.1Ce0.7Y0.1Yb0.1O3□electrolyte. *Journal of Power Sources*, **2010**, 195, 7042-7045	8.9	41
86	Stable, easily sintered BaCe0.5Zr0.3Y0.16Zn0.04O3□electrolyte-based protonic ceramic membrane fuel cells with Ba0.5Sr0.5Zn0.2Fe0.8O3□perovskite cathode. *Journal of Power Sources*, **2008**, 183, 479-484	8.9	39
85	Enhanced performance of symmetrical solid oxide fuel cells using a doped ceria buffer layer. *Electrochimica Acta*, **2016**, 208, 318-324	6.7	36
84	Surface Functionalization of g-C3 N4 : Molecular-Level Design of Noble-Metal-Free Hydrogen Evolution Photocatalysts. *Chemistry - A European Journal*, **2015**, 21, 10290-5	4.8	36
83	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	5.7	35
82	Highly permeable porous YSZ hollow fiber membrane prepared using ethanol as external coagulant. *Journal of Alloys and Compounds*, **2010**, 494, 366-371	5.7	34
81	High sintering activity Cu□d co-doped CeO2 electrolyte for solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 6510-6515	8.9	33
80	A novel facile strategy to suppress Sr segregation for high-entropy stabilized La0□3Sr0□2MnO3-□ cathode. *Journal of Power Sources*, **2021**, 482, 228959	8.9	33
79	Novel quasi-symmetric solid oxide fuel cells with enhanced electrochemical performance. *Journal of Power Sources*, **2016**, 310, 109-117	8.9	32
78	Effects of organic acids of different molecular size on phosphate removal by HZO-201 nanocomposite. *Chemosphere*, **2017**, 166, 422-430	8.4	32
77	An Upgraded Lithium Ion Battery Based on a Polymeric Separator Incorporated with Anode Active Materials. *Advanced Energy Materials*, **2019**, 9, 1803627	21.8	31
76	A cobalt-free Sm0.5Sr0.5FeO3□BaZr0.1Ce0.7Y0.2O3□composite cathode for proton-conducting solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 8630-8634	6.7	31
75	Asymmetric porous cordierite hollow fiber membrane for microfiltration. *Journal of Alloys and Compounds*, **2009**, 487, 631-638	5.7	31
74	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	5.7	31
73	Ag2S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. *ACS Applied Energy Materials*, **2019**, 2, 2751-2759	6.1	30

72	Screen-printed BaCe0.8Sm0.2O3□thin membrane solid oxide fuel cells with surface modification by spray coating. *Journal of Alloys and Compounds*, **2009**, 473, 48-52	5.7	30
71	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	8.9	30
70	Thin yttria-stabilized zirconia electrolyte and transition layers fabricated by particle suspension spray. *Journal of Power Sources*, **2007**, 164, 567-571	8.9	29
69	Fabrication of Li2TiO3 pebbles by water-based sol□gel method. *Fusion Engineering and Design*, **2008**, 83, 112-116	1.7	29
68	Reduced-temperature redox-stable LSM as a novel symmetrical electrode material for SOFCs. *Electrochimica Acta*, **2018**, 260, 121-128	6.7	29
67	Progress in Ni-based anode materials for direct hydrocarbon solid oxide fuel cells. *Journal of Materials Science*, **2018**, 53, 8747-8765	4.3	27
66	Layered SmBaCuCoO5+□and SmBaCuFeO5+□perovskite oxides as cathode materials for proton-conducting SOFCs. *Journal of Alloys and Compounds*, **2010**, 492, 291-294	5.7	27
65	SrCo0.9Sb0.1O3□cubic perovskite as a novel cathode for intermediate-to-low temperature solid oxide fuel cells. *Journal of Alloys and Compounds*, **2009**, 472, 556-558	5.7	27
64	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	6.7	24
63	Low-temperature solid oxide fuel cells with novel La0.6Sr0.4Co0.8Cu0.2O3□perovskite cathode and functional graded anode. *Journal of Power Sources*, **2010**, 195, 1624-1629	8.9	24
62	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	5.8	23
61	Evaluation of simple, easily sintered La0.7Ca0.3Cr0.97 O3□perovskite oxide as novel interconnect material for solid oxide fuel cells. *Journal of Alloys and Compounds*, **2009**, 479, 764-768	5.7	23
60	Preparation and electrochemical properties of Li[Ni1/3Co1/3Mn1□/3Zrx/3]O2 cathode materials for Li-ion batteries. *Journal of Power Sources*, **2007**, 174, 544-547	8.9	23
59	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with SrCo0.9Sb0.1O3□cubic perovskite cathode. *Journal of Power Sources*, **2008**, 185, 937-940	8.9	22
58	(La, Pr)0.8Sr0.2FeO3□Sm0.2Ce0.8O2□composite cathode for proton-conducting solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2014**, 39, 13665-13670	6.7	21
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-□electrolyte. *Electrochimica Acta*, **2014**, 146, 1-7	6.7	21
56	Fabrication and improvement of the density of Li2TiO3 pebbles by the optimization of a sol□gel method. *Journal of Nuclear Materials*, **2009**, 393, 186-191	3.3	21
55	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	2.6	20

54	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	8.9	20
53	A Zn-Doped Ba0.5Sr0.5Co0.8Fe0.2O3-δ Perovskite Cathode with Enhanced ORR Catalytic Activity for SOFCs. *Catalysts*, **2020**, 10, 235	4	19
52	A robust carbon tolerant anode for solid oxide fuel cells. *Science China Materials*, **2015**, 58, 204-212	7.1	18
51	A promising cathode for proton-conducting intermediate temperature solid oxide fuel cells: Y0.8Ca0.2BaCo4O7+δ *Ceramics International*, **2015**, 41, 6687-6692	5.1	17
50	Cost-effective tubular cordierite micro-filtration membranes processed by co-sintering. *Journal of Alloys and Compounds*, **2009**, 477, L35-L40	5.7	17
49	Potentiality of cobalt-free perovskite Ba0.5Sr0.5Fe0.9Mo0.1O3-δ as a single-phase cathode for intermediate-to-low-temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2013**, 38, 14323-14328	6.7	16
48	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	6.7	15
47	Highly promoted performance of triple-conducting cathode for YSZ-based SOFC via fluorine anion doping. *Ceramics International*, **2020**, 46, 23964-23971	5.1	15
46	Fabrication of dense LaCrO3-based interconnect thin membrane on anode substrates by co-firing. *Materials Research Bulletin*, **2009**, 44, 2127-2133	5.1	15
45	BaZr0.1Ce0.7Y0.2O3-δ proton-conducting electrolyte prepared by gel-casting for low-temperature solid oxide fuel cells. *Journal of Alloys and Compounds*, **2009**, 474, 364-369	5.7	14
44	Evaluation of electrical conductivity and oxygen diffusivity of the typical Ruddlesden-Popper oxide Sr3Fe2O7-δ. *Ceramics International*, **2017**, 43, 16264-16269	5.1	13
43	Combustion synthesis and characterization of Cu-Sm co-doped CeO2 electrolytes. *Journal of the European Ceramic Society*, **2011**, 31, 2365-2376	6	13
42	Characterization and polarization DRT analysis of a stable and highly active proton-conducting cathode. *Ceramics International*, **2018**, 44, 14297-14302	5.1	13
41	Exploiting rare-earth-abundant layered perovskite cathodes of LnBa0.5Sr0.5Co1.5Fe0.5O5+δ (Ln=La and Nd) for SOFCs. *International Journal of Hydrogen Energy*, **2021**, 46, 5630-5641	6.7	12
40	A high-entropy perovskite cathode for solid oxide fuel cells. *Journal of Alloys and Compounds*, **2021**, 872, 159633	5.7	12
39	A robust NiO-Sm0.2Ce0.8O1.9 anode for direct-methane solid oxide fuel cell. *Materials Research Bulletin*, **2015**, 71, 1-6	5.1	11
38	Improving stability and electrochemical performance of Ba0.5Sr0.5Co0.2Fe0.8O3-δ electrode for symmetrical solid oxide fuel cells by Mo doping. *Journal of Alloys and Compounds*, **2020**, 831, 154711	5.7	11
37	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	6.7	11

36	Enhanced ORR activity of A-site deficiency engineered BaCo0.4Fe0.4Zr0.1Y0.1O3-δ cathode in practical YSZ fuel cells. *International Journal of Hydrogen Energy*, **2021**, 46, 5593-5603	6.7	11
35	Highly sulfur poisoning-tolerant BaCeO3-impregnated La0.6Sr0.4Co0.2Fe0.8O3-δ cathodes for solid oxide fuel cells. *Journal Physics D: Applied Physics*, **2018**, 51, 435502	3	11
34	Layered perovskite oxide Y0.8Ca0.2BaCoFeO5+δ as a novel cathode material for intermediate-temperature solid oxide fuel cells. *Journal of Rare Earths*, **2015**, 33, 519-523	3.7	10
33	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	2.1	10
32	Preparation and characterization of Ba0.5Sr0.5Fe0.9Ni0.1O3-δ-Sm0.2Ce0.8O1.9 compose cathode for proton-conducting solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 9830-9835	6.7	10
31	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	5.1	10
30	Superior trichloroethylene removal from water by sulfide-modified nanoscale zero-valent iron/graphene aerogel composite. *Journal of Environmental Sciences*, **2020**, 88, 90-102	6.4	10
29	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		9
28	Stable, easily sintered BaCe0.5Zr0.3Y0.16Zn0.04O3-δ electrolyte-based proton-conducting solid oxide fuel cells by gel-casting and suspension spray. *Journal of Alloys and Compounds*, **2009**, 478, 590-593	5.7	9
27	Improved performance of symmetrical solid oxide fuel cells with redox-reversible cermet electrodes. *Materials Letters*, **2017**, 188, 413-416	3.3	7
26	An efficient and prospective self-assembled hybrid electrocatalyst for symmetrical and reversible solid oxide cells. *Electrochimica Acta*, **2020**, 362, 137171	6.7	7
25	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	3.1	6
24	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	12.5	5
23	Alkaline-earth-free quasi-ternary La(Co, Ni, Fe)O3-δ perovskite as potential cathode for solid oxide fuel cells. *Materials Research Express*, **2019**, 6, 096310	1.7	4
22	Synthesis and characterization of a Sr0.95Y0.05TiO3-δ based hydrogen electrode for reversible solid oxide cells. *RSC Advances*, **2015**, 5, 17000-17006	3.7	4
21	Mechanical strengthening of Sm-doped CeO2 ceramics by 1 mol% cobalt oxide for solid oxide fuel cell application. *Journal of Power Sources*, **2011**, 196, 8402-8405	8.9	4
20	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	8.9	4
19	One stable electrocatalyst for two evolution reactions by one-pot combustion synthesis. *International Journal of Hydrogen Energy*, **2020**, 45, 22691-22699	6.7	3

18	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	6.7	3
17	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	2.7	2
16	SrCo0.9Sb0.1O3−δ cubic perovskite as a novel cathode for intermediate-to-low temperature SOFCs. *Fuel Cells Bulletin*, **2009**, 2009, 12-15	1.6	2
15	Stable and easily sintered (Pr0.5Nd0.5)0.7Ca0.3CrO3/Sm0.2Ce0.8O1.9 composite interconnect materials for IT-solid oxide fuel cells. *Journal of Power Sources*, **2011**, 196, 2075-2079	8.9	2
14	Predicting Perovskite Performance with Multiple Machine-Learning Algorithms. *Crystals*, **2021**, 11, 818	2.3	2
13	Phase stability and hydrogen permeation performance of BaCo0.4Fe0.4Zr0.1Y0.1O3-δ ceramic membranes. *Ceramics International*, **2022**, 48, 9946-9954	5.1	2
12	Understanding the Surface of g-C3N4, an Experimental Investigation of the Catalytic Active Site on the Interface. *Catalysis Letters*, **2019**, 149, 3296-3303	2.8	1
11	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	4.8	1
10	CrI/YCH Heterointerface-Induced Stable Half-Metallicity of Two-Dimensional CrI Monolayer Ferromagnets. *ACS Applied Materials & Interfaces*, **2021**, 13, 16694-16703	9.5	1
9	A new in-situ-grown Ni-Sr2WO5 cermet to enhance coking tolerance of direct-hydrocarbon solid oxide fuel cells. *Materials Letters*, **2021**, 301, 130301	3.3	1
8	Fly ash to improve density and ionic conductivity of solid oxide cell electrolytes. *Materials Today Communications*, **2022**, 103546	2.5	0
7	Promoted Performance of Layered Perovskite PrBaFe2O5+δ Cathode for Protonic Ceramic Fuel Cells by Zn Doping. *Catalysts*, **2022**, 12, 488	4	0
6	Nanoengineering electrode for yttria-stabilized zirconia-based symmetrical solid oxide fuel cells to achieve superior output performance. *Separation and Purification Technology*, **2022**, 121174	8.3	0
5	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**, 165368	5.7	0
4	A stable Zr-Y co-doped perovskite BaCo0.4Fe0.4Zr0.1Y0.1O3−δ ceramic membrane for highly efficient oxygen separation. *Separation and Purification Technology*, **2022**, 295, 121206	8.3	0
3	CO2-Stable Alkaline-Earth-Free Solid Oxide Fuel Cells with Ni0.7Co0.3O-Ce0.8Sm0.2O1.9Composite Cathodes. *ECS Transactions*, **2017**, 78, 489-497	1	
2	Preparation and Investigation of Cu Doped(Pr0.5Nd0.5)0.7Ca0.3CrO3−δ Ceramic Interconnect Materials. *Applied Mechanics and Materials*, **2013**, 448-453, 2950-2958	0.3	
1	Micro-Tubular Solid Oxide Fuel Cell with Asymmetric Structure Anode and La0.6Sr0.4Co0.8Cu0.2O3−δ Perovskite Cathode. *Advanced Materials Research*, **2011**, 197-198, 672-676	0.5	