Tao Wei

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74	1,579	23	37
papers	citations	h-index	g-index
81	2,085	8.2	4.95
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
74	A Photoresponsive Rutile TiO Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. *Advanced Materials*, **2019**, 31, e1806596	24	137
73	Thermal and electrochemical properties of PrBa0.5Sr0.5Co2−xFexO5+δ (x = 0.5, 1.0, 1.5) cathode materials for solid-oxide fuel cells. *Journal of Power Sources*, **2013**, 232, 279-285	8.9	101
72	Cobalt-based double-perovskite symmetrical electrodes with low thermal expansion for solid oxide fuel cells. *Journal of Materials Chemistry*, **2012**, 22, 225-231		83
71	Methanation of CO2 over Ni/Al2O3 modified with alkaline earth metals: Impacts of oxygen vacancies on catalytic activity. *International Journal of Hydrogen Energy*, **2019**, 44, 8197-8213	6.7	64
70	Sr3−xNa3xSi3O9−1.5x (x = 0.45) as a superior solid oxide-ion electrolyte for intermediate temperature-solid oxide fuel cells. *Energy and Environmental Science*, **2014**, 7, 1680-1684	35.4	61
69	Electrochemical performance of double-perovskite Ba2MMoO6 (M=Fe, Co, Mn, Ni) anode materials for solid oxide fuel cells. *Journal of Power Sources*, **2012**, 198, 59-65	8.9	61
68	High-performance piezoelectric composite nanogenerator based on Ag/(K,Na)NbO3 heterostructure. *Nano Energy*, **2018**, 50, 62-69	17.1	60
67	Sr2NiMoO6 as anode material for LaGaO3-based solid oxide fuel cell. *Electrochemistry Communications*, **2008**, 10, 1369-1372	5.1	58
66	Steam reforming of guaiacol over Ni/Al2O3 and Ni/SBA-15: Impacts of support on catalytic behaviors of nickel and properties of coke. *Fuel Processing Technology*, **2019**, 191, 138-151	7.2	55
65	Characterization of Pr1−xSrxCo0.8Fe0.2O3−δ (0.2 ≤ x ≤ 0.6) cathode materials for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2008**, 183, 581-585	8.9	54
64	Evaluation of Pr1+xBa1-xCo2O5+δ (x = 0 - 0.30) as cathode materials for solid-oxide fuel cells. *Electrochimica Acta*, **2014**, 133, 364-372	6.7	49
63	Understanding correlation of the interaction between nickel and alumina with the catalytic behaviors in steam reforming and methanation. *Fuel*, **2019**, 250, 176-193	7.1	43
62	A reversible and stable flake-like LiCoO2 cathode for lithium ion batteries. *Chemical Communications*, **2014**, 50, 1962-4	5.8	41
61	Catalytic pyrolysis of poplar wood over transition metal oxides: Correlation of catalytic behaviors with physiochemical properties of the oxides. *Biomass and Bioenergy*, **2019**, 124, 125-141	5.3	40
60	An All-Ceramic Solid-State Rechargeable Na+-Battery Operated at Intermediate Temperatures. *Advanced Functional Materials*, **2014**, 24, 5380-5384	15.6	39
59	High conductive and long-term phase stable anode materials for SOFCs: A2FeMoO6 (A = Ca, Sr, Ba). *Journal of Power Sources*, **2017**, 359, 384-390	8.9	36
58	Steam reforming of guaiacol over Ni/SiO2 catalyst modified with basic oxides: Impacts of alkalinity on properties of coke. *Energy Conversion and Management*, **2020**, 205, 112301	10.6	28

57	Ultrathin and Highly Crystalline Co3O4 Nanosheets In Situ Grown on Graphene toward Enhanced Supercapacitor Performance. *Advanced Materials Interfaces*, **2017**, 4, 1600884	4.6	27
56	Defect control for enhanced piezoelectric properties in SnO 2 and ZrO 2 co-modified KNN ceramics fired under reducing atmosphere. *Journal of the European Ceramic Society*, **2017**, 37, 2057-2065	6	25
55	Evaluation of La0.4Ba0.6Fe0.8Zn0.2O3 + Sm0.2Ce0.8O1.9 as a potential cobalt-free composite cathode for intermediate temperature solid oxide fuel cells. *Journal of Power Sources*, **2015**, 275, 808-814	8.9	25
54	A high-performance, cobalt-free cathode for intermediate-temperature solid oxide fuel cells with excellent CO2 tolerance. *Journal of Power Sources*, **2016**, 319, 178-184	8.9	25
53	Intrinsic Effects of Ruddlesden-Popper-Based Bifunctional Catalysts for High-Temperature Oxygen Reduction and Evolution. *Advanced Energy Materials*, **2019**, 9, 1901573	21.8	24
52	Flux of silver-carbonate membranes for post-combustion CO2 capture: The effects of membrane thickness, gas concentration and time. *Journal of Membrane Science*, **2014**, 455, 162-167	9.6	24
51	Defect engineering of high-performance potassium sodium niobate piezoelectric ceramics sintered in reducing atmosphere. *Journal of the American Ceramic Society*, **2017**, 100, 2024-2033	3.8	21
50	BaCo[sub 0.7]Fe[sub 0.2]Nb[sub 0.1]O[sub 3]Perovskite Oxide as Cathode Material for Intermediate-Temperature Solid Oxide Fuel Cells. *Electrochemical and Solid-State Letters*, **2009**, 12, B103		21
49	Thermoelectric Solid-Oxide Fuel Cells with Extra Power Conversion from Waste Heat. *Chemistry of Materials*, **2012**, 24, 1401-1403	9.6	20
48	Impacts of La addition on formation of the reaction intermediates over alumina and silica supported nickel catalysts in methanation of CO2. *Journal of the Energy Institute*, **2020**, 93, 723-738	5.7	20
47	Evaluation of Ca3Co2O6 as cathode material for high-performance solid-oxide fuel cell. *Scientific Reports*, **2013**, 3, 1125	4.9	19
46	Thermally sprayed high-performance porous metal-supported solid oxide fuel cells with nanostructured La0.6Sr0.4Co0.2Fe0.8O3 cathodes. *Journal of Materials Chemistry A*, **2016**, 4, 7461-7468	13	18
45	Oxidase-Inspired Selective 2e/4e Reduction of Oxygen on Electron-Deficient Cu. *ACS Applied Materials & Interfaces*, **2020**, 12, 4833-4842	9.5	16
44	Optimizing the grain size and grain boundary morphology of (K,Na)NbO3-based ceramics: Paving the way for ultrahigh energy storage capacitors. *Journal of Materiomics*, **2021**, 7, 780-789	6.7	16
43	High-Voltage All-Solid-State Na-Ion-Based Full Cells Enabled by All NASICON-Structured Materials. *ACS Applied Materials & Interfaces*, **2019**, 11, 24192-24197	9.5	15
42	Promising Proton Conductor for Intermediate-Temperature Fuel Cells: Li13.9Sr0.1Zn(GeO4)4. *Chemistry of Materials*, **2017**, 29, 1490-1495	9.6	14
41	Polarization switching and rotation in KNN-based lead-free piezoelectric ceramics near the polymorphic phase boundary. *Journal of the European Ceramic Society*, **2019**, 39, 1002-1010	6	14
40	Anode-supported solid oxide fuel cells based on Sm0.2Ce0.8O1.9 electrolyte fabricated by a phase-inversion and drop-coating process. *International Journal of Hydrogen Energy*, **2016**, 41, 10907-10913	6.7	13

39	One-pot synthesized hetero-structured Ca3Co2O6/La0.6Ca0.4CoO3 dual-phase composite cathode materials for solid-oxide fuel cells. *International Journal of Hydrogen Energy*, **2015**, 40, 12750-12760	6.7	12
38	Achieving ultrahigh energy storage efficiency in local-composition gradient-structured ferroelectric ceramics. *Chemical Engineering Journal*, **2021**, 425, 129506	14.7	12
37	Controlling grain size in columnar YSZ coating formation by droplet filtering assisted PS-PVD processing. *RSC Advances*, **2015**, 5, 102126-102133	3.7	10
36	Interfacial effects on electrical conductivity in ultrafine-grained Sm0.2Ce0.8O2□electrolytes fabricated by a two-step sintering process. *International Journal of Hydrogen Energy*, **2017**, 42, 11823-11829	6.7	9
35	Electrical conduction and dielectric relaxation mechanisms in the KNN-based ceramics. *Journal of Applied Physics*, **2019**, 126, 104101	2.5	9
34	Composites of Single/Double Perovskites as Cathodes for Solid Oxide Fuel Cells. *Energy Technology* , **2016**, 4, 804-808	3.5	9
33	La2NiO4+□Infiltration of Plasma-Sprayed LSCF Coating for Cathode Performance Improvement. *Journal of Thermal Spray Technology*, **2016**, 25, 392-400	2.5	9
32	Synergetic effects of hydrogenation and acidic sites in phosphorus-modified nickel catalysts for the selective conversion of furfural to cyclopentanone. *Catalysis Science and Technology*, **2021**, 11, 575-593	5.5	9
31	Impacts of Solvents on the Stability of the Biomass-Derived Sugars and Furans. *Energy & Fuels*, **2020**, 34, 3250-3261	4.1	8
30	Thermoelectric solid-oxide fuel cell with Ca2Co2O5 as cathode material. *RSC Advances*, **2013**, 3, 2336	3.7	8
29	A microchannel reactor-integrated ceramic fuel cell with dual-coupling effect for efficient power and syngas co-generation from methane. *Applied Catalysis B: Environmental*, **2021**, 297, 120443	21.8	8
28	Essential microstructure of cathode functional layers of solid oxide electrolysis cells for CO2 electrolysis. *Journal of CO2 Utilization*, **2019**, 32, 214-218	7.6	7
27	Catalytic CeO2 washcoat over microchanneled supporting cathodes of solid oxide electrolysis cells for efficient and stable CO2 reduction. *Journal of Power Sources*, **2019**, 412, 344-349	8.9	7
26	Autothermal reforming of methane over an integrated solid oxide fuel cell reactor for power and syngas co-generation. *Journal of Power Sources*, **2021**, 513, 230536	8.9	7
25	Efficient conversion of methane into power via microchanneled solid oxide fuel cells. *Journal of Power Sources*, **2020**, 453, 227848	8.9	6
24	Revealing the Intrinsic Origin for Performance-Enhancing VO Electrode Materials. *ACS Applied Materials & Interfaces*, **2020**, 12, 45961-45967	9.5	6
23	Enhanced photocatalytic activity and cycle stability driven by ultrasonic vibration for ferroelectric photocatalysts. *IET Nanodielectrics*, **2019**, 2, 48-53	2.8	6
22	A Comparative Study on the Li+/Na+ Transportation in NASICON-Type Electrolytes. *Journal of Physical Chemistry C*, **2018**, 122, 20565-20570	3.8	6

21	Design of p-type NKN-based piezoelectric ceramics sintered in low oxygen partial pressure by defect engineering. *Journal of the American Ceramic Society*, **2020**, 103, 3667-3675	3.8	5
20	Systematic effect of contaminations on IT-SOFCs cathode stability: a quantifiable correlation versus cathode-side poisoning and protection. *Journal of Materials Chemistry A*, **2018**, 6, 5172-5184	13	5
19	Enhanced ferro-photocatalytic performance for ANbO (A = Na, K) nanoparticles. *Mathematical Biosciences and Engineering*, **2019**, 16, 4122-4134	2.1	5
18	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO Electrolysis at Ultrahigh Current Densities. *Small*, **2021**, 17, e2007211	11	5
17	A highly active CH4 catalyst correlated with solid oxide fuel cell anode performance. *Journal of Materials Chemistry A*, **2021**, 9, 5067-5074	13	5
16	Factors influencing Li+ migration in garnet-type ceramic electrolytes. *Journal of Materiomics*, **2019**, 5, 214-220	6.7	4
15	Enhanced electrochemical activity in Ca3Co2O6 cathode for solid-oxide fuel cells by Cu substitution. *Journal of Materiomics*, **2015**, 1, 60-67	6.7	4
14	Enhanced thermal and cycling reliabilities in (K,Na)(Nb,Sb)O3-CaZrO3-(Bi,Na)HfO3 ceramics. *Journal of Advanced Ceramics*, **2020**, 9, 349-359	10.7	3
13	Evaluation of Ca 3 (Co,M) 2 O 6 (M=Co, Fe, Mn, Ni) as new cathode materials for solid-oxide fuel cells. *Progress in Natural Science: Materials International*, **2015**, 25, 370-378	3.6	3
12	Achieving high mechanical-strength CH4-based SOFCs by low-temperature sintering (1100℃). *International Journal of Hydrogen Energy*, **2020**, 45, 3086-3093	6.7	3
11	Ultrahigh energy harvesting properties in Ag decorated potassium-sodium niobite particle-polymer composite. *Journal of Materiomics*, **2020**, 6, 355-363	6.7	3
10	Activating ORR and OER in Ruddlesden-Popper based catalysts by enhancing interstitial oxygen and lattice oxygen redox reactions. *Electrochimica Acta*, **2021**, 370, 137747	6.7	3
9	Enhanced Photocatalytic Activity by the Combined Influence of Ferroelectric Domain and Au Nanoparticles for BaTiO3 Fibers. *Nano*, **2018**, 13, 1850149	1.1	3
8	Enhanced thermal reliability of Mn-doped (K, Na)NbO3-based piezoelectric ceramics. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 18659-18665	2.1	2
7	Elevated-temperature bio-ethanol-assisted water electrolysis for efficient hydrogen production. *Chemical Engineering Journal*, **2022**, 434, 134699	14.7	1
6	3D Vertically Aligned Microchannel Three-Layer All Ceramic Lithium Ion Battery for High-Rate and Long-Cycle Electrochemical Energy Storage.. *Small*, **2022**, e2107442	11	1
5	Optimization of Cathode Functional Layers of Solid Oxide Electrolysis Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 40917-40924	9.5	1
4	The optimal sintering atmosphere and defect structure of CuO-doped NKN-based ceramic with p/n-type conduction mechanism. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 1928-1940	2.1	1

3	Defect engineering of BCZT-based piezoelectric ceramics with high piezoelectric properties. *Journal of Advanced Ceramics*, **2022**, 11, 184-195	10.7	1
2	Optimizing coupling agent for the enhanced energy storage density of BaTiO3/P(VDF HFP)&PMMA nanocomposite films. *Journal of Polymer Research*, **2021**, 28, 1	2.7	0
1	Defect engineering on sea-urchin-like transition-metal oxides for high-performance supercapacitors. *Journal of Power Sources*, **2022**, 533, 231409	8.9	0