

Tao Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,579
citations

23
h-index

37
g-index

81
ext. papers

2,085
ext. citations

8.2
avg, IF

4.95
L-index

#	Paper	IF	Citations
74	Elevated-temperature bio-ethanol-assisted water electrolysis for efficient hydrogen production. <i>Chemical Engineering Journal</i> , 2022 , 434, 134699	14.7	1
73	3D Vertically Aligned Microchannel Three-Layer All Ceramic Lithium Ion Battery for High-Rate and Long-Cycle Electrochemical Energy Storage.. <i>Small</i> , 2022 , e2107442	11	1
72	Defect engineering on sea-urchin-like transition-metal oxides for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2022 , 533, 231409	8.9	0
71	Defect engineering of BCZT-based piezoelectric ceramics with high piezoelectric properties. <i>Journal of Advanced Ceramics</i> , 2022 , 11, 184-195	10.7	1
70	Optimizing the grain size and grain boundary morphology of (K,Na)NbO ₃ -based ceramics: Paving the way for ultrahigh energy storage capacitors. <i>Journal of Materiomics</i> , 2021 , 7, 780-789	6.7	16
69	Optimizing coupling agent for the enhanced energy storage density of BaTiO ₃ /P(VDF/HFP)&PMMA nanocomposite films. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	0
68	Synergetic effects of hydrogenation and acidic sites in phosphorus-modified nickel catalysts for the selective conversion of furfural to cyclopentanone. <i>Catalysis Science and Technology</i> , 2021 , 11, 575-593	5.5	9
67	The optimal sintering atmosphere and defect structure of CuO-doped NKN-based ceramic with p/n-type conduction mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 1928-1940	2.1	1
66	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO Electrolysis at Ultrahigh Current Densities. <i>Small</i> , 2021 , 17, e2007211	11	5
65	Activating ORR and OER in Ruddlesden-Popper based catalysts by enhancing interstitial oxygen and lattice oxygen redox reactions. <i>Electrochimica Acta</i> , 2021 , 370, 137747	6.7	3
64	Autothermal reforming of methane over an integrated solid oxide fuel cell reactor for power and syngas co-generation. <i>Journal of Power Sources</i> , 2021 , 513, 230536	8.9	7
63	A microchannel reactor-integrated ceramic fuel cell with dual-coupling effect for efficient power and syngas co-generation from methane. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120443	21.8	8
62	Achieving ultrahigh energy storage efficiency in local-composition gradient-structured ferroelectric ceramics. <i>Chemical Engineering Journal</i> , 2021 , 425, 129506	14.7	12
61	A highly active CH ₄ catalyst correlated with solid oxide fuel cell anode performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5067-5074	13	5
60	Enhanced thermal and cycling reliabilities in (K,Na)(Nb,Sb)O ₃ -CaZrO ₃ -(Bi,Na)HfO ₃ ceramics. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 349-359	10.7	3
59	Efficient conversion of methane into power via microchanneled solid oxide fuel cells. <i>Journal of Power Sources</i> , 2020 , 453, 227848	8.9	6
58	Impacts of Solvents on the Stability of the Biomass-Derived Sugars and Furans. <i>Energy & Fuels</i> , 2020 , 34, 3250-3261	4.1	8

57	Oxidase-Inspired Selective 2e/4e Reduction of Oxygen on Electron-Deficient Cu. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4833-4842	9.5	16
56	Design of p-type NKN-based piezoelectric ceramics sintered in low oxygen partial pressure by defect engineering. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3667-3675	3.8	5
55	Steam reforming of guaiacol over Ni/SiO ₂ catalyst modified with basic oxides: Impacts of alkalinity on properties of coke. <i>Energy Conversion and Management</i> , 2020 , 205, 112301	10.6	28
54	Achieving high mechanical-strength CH ₄ -based SOFCs by low-temperature sintering (1100°C). <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 3086-3093	6.7	3
53	Optimization of Cathode Functional Layers of Solid Oxide Electrolysis Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40917-40924	9.5	1
52	Revealing the Intrinsic Origin for Performance-Enhancing VO Electrode Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45961-45967	9.5	6
51	Impacts of La addition on formation of the reaction intermediates over alumina and silica supported nickel catalysts in methanation of CO ₂ . <i>Journal of the Energy Institute</i> , 2020 , 93, 723-738	5.7	20
50	Ultrahigh energy harvesting properties in Ag decorated potassium-sodium niobite particle-polymer composite. <i>Journal of Materiomics</i> , 2020 , 6, 355-363	6.7	3
49	Enhanced thermal reliability of Mn-doped (K, Na)NbO ₃ -based piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 18659-18665	2.1	2
48	Electrical conduction and dielectric relaxation mechanisms in the KNN-based ceramics. <i>Journal of Applied Physics</i> , 2019 , 126, 104101	2.5	9
47	Factors influencing Li ⁺ migration in garnet-type ceramic electrolytes. <i>Journal of Materiomics</i> , 2019 , 5, 214-220	6.7	4
46	Intrinsic Effects of Ruddlesden-Popper-Based Bifunctional Catalysts for High-Temperature Oxygen Reduction and Evolution. <i>Advanced Energy Materials</i> , 2019 , 9, 1901573	21.8	24
45	High-Voltage All-Solid-State Na-Ion-Based Full Cells Enabled by All NASICON-Structured Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24192-24197	9.5	15
44	Essential microstructure of cathode functional layers of solid oxide electrolysis cells for CO ₂ electrolysis. <i>Journal of CO₂ Utilization</i> , 2019 , 32, 214-218	7.6	7
43	Understanding correlation of the interaction between nickel and alumina with the catalytic behaviors in steam reforming and methanation. <i>Fuel</i> , 2019 , 250, 176-193	7.1	43
42	Steam reforming of guaiacol over Ni/Al ₂ O ₃ and Ni/SBA-15: Impacts of support on catalytic behaviors of nickel and properties of coke. <i>Fuel Processing Technology</i> , 2019 , 191, 138-151	7.2	55
41	Methanation of CO ₂ over Ni/Al ₂ O ₃ modified with alkaline earth metals: Impacts of oxygen vacancies on catalytic activity. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 8197-8213	6.7	64
40	Catalytic pyrolysis of poplar wood over transition metal oxides: Correlation of catalytic behaviors with physiochemical properties of the oxides. <i>Biomass and Bioenergy</i> , 2019 , 124, 125-141	5.3	40

39	Enhanced ferro-photocatalytic performance for ANbO (A = Na, K) nanoparticles. <i>Mathematical Biosciences and Engineering</i> , 2019 , 16, 4122-4134	2.1	5
38	Enhanced photocatalytic activity and cycle stability driven by ultrasonic vibration for ferroelectric photocatalysts. <i>IET Nanodielectrics</i> , 2019 , 2, 48-53	2.8	6
37	A Photoresponsive Rutile TiO Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1806596	24	137
36	Polarization switching and rotation in KNN-based lead-free piezoelectric ceramics near the polymorphic phase boundary. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1002-1010	6	14
35	Catalytic CeO ₂ washcoat over microchanneled supporting cathodes of solid oxide electrolysis cells for efficient and stable CO ₂ reduction. <i>Journal of Power Sources</i> , 2019 , 412, 344-349	8.9	7
34	Systematic effect of contaminations on IT-SOFCs cathode stability: a quantifiable correlation versus cathode-side poisoning and protection. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5172-5184	13	5
33	Enhanced Photocatalytic Activity by the Combined Influence of Ferroelectric Domain and Au Nanoparticles for BaTiO ₃ Fibers. <i>Nano</i> , 2018 , 13, 1850149	1.1	3
32	A Comparative Study on the Li ⁺ /Na ⁺ Transportation in NASICON-Type Electrolytes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20565-20570	3.8	6
31	High-performance piezoelectric composite nanogenerator based on Ag/(K,Na)NbO ₃ heterostructure. <i>Nano Energy</i> , 2018 , 50, 62-69	17.1	60
30	Defect engineering of high-performance potassium sodium niobate piezoelectric ceramics sintered in reducing atmosphere. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2024-2033	3.8	21
29	Promising Proton Conductor for Intermediate-Temperature Fuel Cells: Li _{13.9} Sr _{0.1} Zn(GeO ₄) ₄ . <i>Chemistry of Materials</i> , 2017 , 29, 1490-1495	9.6	14
28	Interfacial effects on electrical conductivity in ultrafine-grained Sm _{0.2} Ce _{0.8} O ₂ electrolytes fabricated by a two-step sintering process. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11823-11829	6.7	9
27	Ultrathin and Highly Crystalline Co ₃ O ₄ Nanosheets In Situ Grown on Graphene toward Enhanced Supercapacitor Performance. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600884	4.6	27
26	High conductive and long-term phase stable anode materials for SOFCs: A ₂ FeMoO ₆ (A = Ca, Sr, Ba). <i>Journal of Power Sources</i> , 2017 , 359, 384-390	8.9	36
25	Defect control for enhanced piezoelectric properties in SnO ₂ and ZrO ₂ co-modified KNN ceramics fired under reducing atmosphere. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 2057-2065	6	25
24	Composites of Single/Double Perovskites as Cathodes for Solid Oxide Fuel Cells. <i>Energy Technology</i> , 2016 , 4, 804-808	3.5	9
23	A high-performance, cobalt-free cathode for intermediate-temperature solid oxide fuel cells with excellent CO ₂ tolerance. <i>Journal of Power Sources</i> , 2016 , 319, 178-184	8.9	25
22	La ₂ NiO ₄ +Infiltration of Plasma-Sprayed LSCF Coating for Cathode Performance Improvement. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 392-400	2.5	9

21	Thermally sprayed high-performance porous metal-supported solid oxide fuel cells with nanostructured $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\lambda}$ cathodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7461-7468	13	18
20	Anode-supported solid oxide fuel cells based on $\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ electrolyte fabricated by a phase-inversion and drop-coating process. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 10907-10913	6.7	13
19	Enhanced electrochemical activity in $\text{Ca}_3\text{Co}_2\text{O}_6$ cathode for solid-oxide fuel cells by Cu substitution. <i>Journal of Materiomics</i> , 2015 , 1, 60-67	6.7	4
18	One-pot synthesized hetero-structured $\text{Ca}_3\text{Co}_2\text{O}_6/\text{La}_{0.6}\text{Ca}_{0.4}\text{CoO}_3$ dual-phase composite cathode materials for solid-oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12750-12760	6.7	12
17	Controlling grain size in columnar YSZ coating formation by droplet filtering assisted PS-PVD processing. <i>RSC Advances</i> , 2015 , 5, 102126-102133	3.7	10
16	Evaluation of $\text{La}_{0.4}\text{Ba}_{0.6}\text{Fe}_{0.8}\text{Zn}_{0.2}\text{O}_{3-\lambda}$ - $\text{Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ as a potential cobalt-free composite cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015 , 275, 808-814	8.9	25
15	Evaluation of $\text{Ca}_3(\text{Co},\text{M})_2\text{O}_6$ (M=Co, Fe, Mn, Ni) as new cathode materials for solid-oxide fuel cells. <i>Progress in Natural Science: Materials International</i> , 2015 , 25, 370-378	3.6	3
14	Evaluation of $\text{Pr}_{1-x}\text{Ba}_x\text{Co}_2\text{O}_5$ (x = 0 - 0.30) as cathode materials for solid-oxide fuel cells. <i>Electrochimica Acta</i> , 2014 , 133, 364-372	6.7	49
13	$\text{Sr}_{3-3x}\text{Na}_3\text{Si}_3\text{O}_{11.5x}$ (x = 0.45) as a superior solid oxide-ion electrolyte for intermediate temperature-solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2014 , 7, 1680-1684	35.4	61
12	A reversible and stable flake-like LiCoO_2 cathode for lithium ion batteries. <i>Chemical Communications</i> , 2014 , 50, 1962-4	5.8	41
11	An All-Ceramic Solid-State Rechargeable Na^+ -Battery Operated at Intermediate Temperatures. <i>Advanced Functional Materials</i> , 2014 , 24, 5380-5384	15.6	39
10	Flux of silver-carbonate membranes for post-combustion CO_2 capture: The effects of membrane thickness, gas concentration and time. <i>Journal of Membrane Science</i> , 2014 , 455, 162-167	9.6	24
9	Evaluation of $\text{Ca}_3\text{Co}_2\text{O}_6$ as cathode material for high-performance solid-oxide fuel cell. <i>Scientific Reports</i> , 2013 , 3, 1125	4.9	19
8	Thermoelectric solid-oxide fuel cell with $\text{Ca}_2\text{Co}_2\text{O}_5$ as cathode material. <i>RSC Advances</i> , 2013 , 3, 2336	3.7	8
7	Thermal and electrochemical properties of $\text{PrBa}_{0.5}\text{Sr}_{0.5}\text{Co}_{2-x}\text{Fe}_x\text{O}_{5+\lambda}$ (x = 0.5, 1.0, 1.5) cathode materials for solid-oxide fuel cells. <i>Journal of Power Sources</i> , 2013 , 232, 279-285	8.9	101
6	Electrochemical performance of double-perovskite Ba_2MMoO_6 (M=Fe, Co, Mn, Ni) anode materials for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012 , 198, 59-65	8.9	61
5	Cobalt-based double-perovskite symmetrical electrodes with low thermal expansion for solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 225-231		83
4	Thermoelectric Solid-Oxide Fuel Cells with Extra Power Conversion from Waste Heat. <i>Chemistry of Materials</i> , 2012 , 24, 1401-1403	9.6	20

3	BaCo _{0.7} Fe _{0.2} Nb _{0.1} O ₃ Perovskite Oxide as Cathode Material for Intermediate-Temperature Solid Oxide Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B103	21
2	Characterization of Pr _{1-x} Sr _x Co _{0.8} Fe _{0.2} O _{3-δ} (0.2 ≤ x ≤ 0.6) cathode materials for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2008 , 183, 581-585	8.9 54
1	Sr ₂ NiMoO ₆ as anode material for LaGaO ₃ -based solid oxide fuel cell. <i>Electrochemistry Communications</i> , 2008 , 10, 1369-1372	5.1 58