

Tao Wei

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,619
citations

186265

28
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48
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all docs

81
docs citations

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times ranked

2881
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving excellent energy storage reliability and endurance via mechanical performance optimization strategy in engineered ceramics with core-shell grain structure. <i>Journal of Materiomics</i> , 2022, 8, 601-610.	5.7	16
2	Elevated-temperature bio-ethanol-assisted water electrolysis for efficient hydrogen production. <i>Chemical Engineering Journal</i> , 2022, 434, 134699.	12.7	21
3	3D Vertically Aligned Microchannel Three-Layer All Ceramic Lithium Ion Battery for High-Rate and Long-Cycle Electrochemical Energy Storage. <i>Small</i> , 2022, 18, e2107442.	10.0	11
4	A Combined Optimization Strategy for Improvement of Comprehensive Energy Storage Performance in Sodium Niobate-Based Antiferroelectric Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9330-9339.	8.0	56
5	Medium-Entropy SrV _{1/3} Fe _{1/3} Mo _{1/3} O ₃ with High Conductivity and Strong Stability as SOFCs High-Performance Anode. <i>Materials</i> , 2022, 15, 2298.	2.9	7
6	Defect engineering on sea-urchin-like transition-metal oxides for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2022, 533, 231409.	7.8	10
7	Defect engineering of BCZT-based piezoelectric ceramics with high piezoelectric properties. <i>Journal of Advanced Ceramics</i> , 2022, 11, 184-195.	17.4	32
8	Optimizing energy harvesting performance by tailoring ferroelectric/relaxor behavior in KNN-based piezoceramics. <i>Journal of Advanced Ceramics</i> , 2022, 11, 935-944.	17.4	25
9	Review "Double-Perovskite Electrode Design Strategies and Research Progress for SOFCs. <i>Journal of the Electrochemical Society</i> , 2022, 169, 064508.	2.9	11
10	Amelioration on energy storage performance of KNN-based transparent ceramics by optimizing the polarization and breakdown strength. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6158-6167.	3.8	20
11	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.	4.1	25
12	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.	2.2	1
13	Robust Anode-Supported Cells with Fast Oxygen Release Channels for Efficient and Stable CO ₂ Electrolysis at Ultrahigh Current Densities. <i>Small</i> , 2021, 17, e2007211.	10.0	13
14	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.	5.2	10
15	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.	5.7	69
16	Optimizing coupling agent for the enhanced energy storage density of BaTiO ₃ /P(VDF- <i>tr</i> HFP)&PMMA nanocomposite films. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	3
17	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.	7.8	28
18	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.	20.2	25

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19	Achieving ultrahigh energy storage efficiency in local-composition gradient-structured ferroelectric ceramics. <i>Chemical Engineering Journal</i> , 2021, 425, 129506.	12.7	65
20	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.	10.3	15
21	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.	5.3	27
22	Ultrahigh energy harvesting properties in Ag decorated potassium-sodium niobite particle-polymer composite. <i>Journal of Materiomics</i> , 2020, 6, 355-363.	5.7	9
23	Achieving high mechanical-strength CH ₄ -based SOFCs by low-temperature sintering (1100Å°). <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3086-3093.	7.1	7
24	Optimization of Cathode Functional Layers of Solid Oxide Electrolysis Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40917-40924.	8.0	5
25	Revealing the Intrinsic Origin for Performance-Enhancing V ₂ O ₅ Electrode Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45961-45967.	8.0	14
26	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.	17.4	11
27	Efficient conversion of methane into power via microchanneled solid oxide fuel cells. <i>Journal of Power Sources</i> , 2020, 453, 227848.	7.8	11
28	Impacts of Solvents on the Stability of the Biomass-Derived Sugars and Furans. <i>Energy & Fuels</i> , 2020, 34, 3250-3261.	5.1	10
29	Oxidase-Inspired Selective 2e/4e Reduction of Oxygen on Electron-Deficient Cu. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4833-4842.	8.0	31
30	Design of p-type KNN-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	17
31	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.	9.2	40
32	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.	2.2	4
33	Electrical conduction and dielectric relaxation mechanisms in the KNN-based ceramics. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	23
34	Factors influencing Li ⁺ migration in garnet-type ceramic electrolytes. <i>Journal of Materiomics</i> , 2019, 5, 214-220.	5.7	7
35	Intrinsic Effects of Ruddlesden-Popper-Based Bifunctional Catalysts for High-Temperature Oxygen Reduction and Evolution. <i>Advanced Energy Materials</i> , 2019, 9, 1901573.	19.5	58
36	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.	8.0	25

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37	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.	6.8	19
38	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.	6.4	56
39	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	78
40	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.	7.1	99
41	Catalytic pyrolysis of poplar wood over transition metal oxides: Correlation of catalytic behaviors with physicochemical properties of the oxides. <i>Biomass and Bioenergy</i> , 2019, 124, 125-141.	5.7	82
42	Enhanced photocatalytic activity and cycle stability driven by ultrasonic vibration for ferroelectric photocatalysts. <i>IET Nanodielectrics</i> , 2019, 2, 48-53.	4.1	8
43	A Photoresponsive Rutile TiO ₂ Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. <i>Advanced Materials</i> , 2019, 31, e1806596.	21.0	240
44	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.	5.7	28
45	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.	7.8	13
46	Enhanced ferro-photocatalytic performance for ANbO ₃ (A = Na, K) nanoparticles. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 4122-4134.	1.9	9
47	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.	10.3	8
48	Enhanced Photocatalytic Activity by the Combined Influence of Ferroelectric Domain and Au Nanoparticles for BaTiO ₃ Fibers. <i>Nano</i> , 2018, 13, 1850149.	1.0	7
49	A Comparative Study on the Li ⁺ /Na ⁺ Transportation in NASICON-Type Electrolytes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20565-20570.	3.1	11
50	High-performance piezoelectric composite nanogenerator based on Ag/(K,Na)NbO ₃ heterostructure. <i>Nano Energy</i> , 2018, 50, 62-69.	16.0	93
51	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	28
52	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.	6.7	25
53	Interfacial effects on electrical conductivity in ultrafine-grained Sm _{0.2} Ce _{0.8} O _{2-δ} electrolytes fabricated by a two-step sintering process. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11823-11829.	7.1	10
54	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.	3.7	33

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55	High conductive and long-term phase stable anode materials for SOFCs: A 2 FeMoO 6 (A= Ca, Sr, Ba). Journal of Power Sources, 2017, 359, 384-390.	7.8	51
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.	5.7	33
57	La2NiO4+Î Infiltration of Plasma-Sprayed LSCF Coating for Cathode Performance Improvement. Journal of Thermal Spray Technology, 2016, 25, 392-400.	3.1	15
58	Thermally sprayed high-performance porous metal-supported solid oxide fuel cells with nanostructured La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3+Î} cathodes. Journal of Materials Chemistry A, 2016, 4, 7461-7468.	10.3	25
59	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.	7.1	15
60	Composites of Single/Double Perovskites as Cathodes for Solid Oxide Fuel Cells. Energy Technology, 2016, 4, 804-808.	3.8	11
61	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.	7.8	30
62	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.	4.4	3
63	Enhanced electrochemical activity in Ca3Co2O6 cathode for solid-oxide fuel cells by Cu substitution. Journal of Materiomics, 2015, 1, 60-67.	5.7	5
64	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.	7.1	15
65	Controlling grain size in columnar YSZ coating formation by droplet filtering assisted PS-PVD processing. RSC Advances, 2015, 5, 102126-102133.	3.6	11
66	Evaluation of La0.4Ba0.6Fe0.8Zn0.2O3+Î+ÎSm0.2Ce0.8O1.9 as a potential cobalt-free composite cathode for intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2015, 275, 808-814.	7.8	32
67	Evaluation of Pr1+xBa1-xCo2O5+Î (x = 0 - 0.30) as cathode materials for solid-oxide fuel cells. Electrochimica Acta, 2014, 133, 364-372.	5.2	65
68	Sr_{3+3x}Na_{3x}Si₃O_{9+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.	30.8	75
69	A reversible and stable flake-like LiCoO2 cathode for lithium ion batteries. Chemical Communications, 2014, 50, 1962.	4.1	47
70	An All-Ceramic Solid-State Rechargeable Na⁺-Battery Operated at Intermediate Temperatures. Advanced Functional Materials, 2014, 24, 5380-5384.	14.9	52
71	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.	8.2	25
72	Evaluation of Ca3Co2O6 as cathode material for high-performance solid-oxide fuel cell. Scientific Reports, 2013, 3, 1125.	3.3	22

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73	Thermoelectric solid-oxide fuel cell with Ca ₂ Co ₂ O ₅ as cathode material. RSC Advances, 2013, 3, 2336.	3.6	10
74	Thermal and electrochemical properties of PrBa _{0.5} Sr _{0.5} Co _{2-x} Fe _x O _{5+δ} (x=0.5, 1.0, 1.5) cathode materials for solid-oxide fuel cells. Journal of Power Sources, 2013, 232, 279-285.	7.8	134
75	Cobalt-based double-perovskite symmetrical electrodes with low thermal expansion for solid oxide fuel cells. Journal of Materials Chemistry, 2012, 22, 225-231.	6.7	90
76	Thermoelectric Solid-Oxide Fuel Cells with Extra Power Conversion from Waste Heat. Chemistry of Materials, 2012, 24, 1401-1403.	6.7	21
77	Electrochemical performance of double-perovskite Ba ₂ MMoO ₆ (M=Fe, Co, Mn, Ni) anode materials for solid oxide fuel cells. Journal of Power Sources, 2012, 198, 59-65.	7.8	71
78	BaCo _{0.7} Fe _{0.2} Nb _{0.1} O ₃ Perovskite Oxide as Cathode Material for Intermediate-Temperature Solid Oxide Fuel Cells. Electrochemical and Solid-State Letters, 2009, 12, B103.	2.2	23
79	Characterization of Pr _{1-x} Sr _x Co _{0.8} Fe _{0.2} O ₃ (0.2 ≤ x ≤ 0.6) cathode materials for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2008, 183, 581-585.	7.8	64
80	Sr ₂ NiMoO ₆ as anode material for LaGaO ₃ -based solid oxide fuel cell. Electrochemistry Communications, 2008, 10, 1369-1372.	4.7	65