

Zhongliang Zhan

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,488
citations

361413

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docs citations

38
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical performance and redox stability of solid oxide fuel cells supported on dual-layered anodes of Ni-YSZ cermet and Ni-Fe alloy. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5453-5461.	7.1	16
2	Investigation of Ni ²⁺ -doped ceria nanorods as the anode catalysts for reduced-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6827-6836.	7.1	3
3	A highly efficient and stable perovskite cathode with <i>in situ</i> exsolved NiFe alloy nanoparticles for CO ₂ electrolysis. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2038-2044.	4.9	3
4	Protonic ceramic cells with thin BaZr _{0.8} Y _{0.2} O _{3-δ} electrolytes for stable separation of H ₂ from H ₂ -CO ₂ mixtures. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 12067-12073.	7.1	1
5	Infiltrated Ni _{0.08} Co _{0.02} CeO ₂ @Ni _{0.8} Co _{0.2} Catalysts for a Finger-Like Anode in Direct Methane-Fueled Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4943-4954.	8.0	13
6	Direct CO ₂ Electrolysis on Symmetric La _{0.8} Sr _{0.2} Cr _{0.5} Fe _{0.5} O _{3-δ} /Zr _{0.84} Y _{0.16} O _{2-δ} Electrode-Supported Solid Oxide Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2021, 168, 024508.	2.9	4
7	Membrane-based catalytic partial oxidation of ethanol coupled with steam reforming for solid oxide fuel cells. <i>Journal of Membrane Science</i> , 2021, 622, 119032.	8.2	11
8	Dopant-induced surface activation of ceria nanorods for electro-oxidation of hydrogen and propane in solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17922-17931.	7.1	6
9	Performance degradation analysis and fault prognostics of solid oxide fuel cells using the data-driven method. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 18511-18523.	7.1	14
10	Syngas production through CH ₄ -assisted co-electrolysis of H ₂ O and CO ₂ in La _{0.8} Sr _{0.2} Cr _{0.5} Fe _{0.5} O _{3-δ} /Zr _{0.84} Y _{0.16} O _{2-δ} electrode-supported solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20305-20312.	7.1	11
11	Co-generation of electricity and olefin via proton conducting fuel cells using (Pr _{0.3} Sr _{0.7}) _{0.9} Ni _{0.1} Ti _{0.9} O ₃ catalyst layers. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118973.	20.2	37
12	Preparation of high-density garnet thin sheet electrolytes for all-solid-state Li-Metal batteries by tape-casting technique. <i>Journal of Alloys and Compounds</i> , 2019, 791, 923-928.	5.5	33
13	The beneficial effects of straight open large pores in the support on steam electrolysis performance of electrode-supported solid oxide electrolysis cell. <i>Journal of Power Sources</i> , 2018, 374, 175-180.	7.8	29
14	Membrane-assisted propane partial oxidation for solid oxide fuel cell applications. <i>Journal of Power Sources</i> , 2018, 392, 200-205.	7.8	25
15	Optimization of anode structure for intermediate temperature solid oxide fuel cell via phase-inversion cotape casting. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3794-3800.	3.8	25
16	Hebb-Wagner polarization assessment of enhanced oxygen permeability for surface modified oxygen transport membranes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18410-18416.	7.1	4
17	Symmetrical solid oxide fuel cells fabricated by phase inversion tape casting with impregnated SrFe _{0.75} Mo _{0.25} O _{3-δ} (SFMO) electrodes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18499-18503.	7.1	34
18	Shape-Dependent Activity of Ceria for Hydrogen Electro-Oxidation in Reduced-Temperature Solid Oxide Fuel Cells. <i>Small</i> , 2015, 11, 5581-5588.	10.0	27

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19	Potentiometric NO ₂ Sensors Based on Thin Stabilized Zirconia Electrolytes and Asymmetric (La _{0.8} Sr _{0.2}) _{0.95} MnO ₃ Electrodes. <i>Sensors</i> , 2015, 15, 17558-17571.	3.8	10
20	NO ₂ sensing properties of electrode-supported sensor by tape casting and co-firing method. <i>Ionics</i> , 2015, 21, 2655-2662.	2.4	7
21	A Nanostructured Architecture for Reduced-temperature Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500375.	19.5	20
22	In situ formation of LaNi _{0.6} Fe _{0.4} O ₃ -carbon nanotube hybrids as anodes for direct-methane solid oxide fuel cells. <i>Journal of Power Sources</i> , 2015, 299, 472-479.	7.8	28
23	Characterization of SrFe _{0.75} Mo _{0.25} O ₃ -La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O ₃ composite cathodes prepared by infiltration. <i>Journal of Power Sources</i> , 2014, 246, 906-911.	7.8	23
24	Evaluation of LaSr ₂ Fe ₂ CrO ₉ as a Potential Electrode for Symmetrical Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2014, 133, 453-458.	5.2	56
25	Sc-substituted La _{0.6} Sr _{0.4} FeO ₃ mixed conducting oxides as promising electrodes for symmetrical solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014, 246, 457-463.	7.8	89
26	Metal-supported solid oxide fuel cells with impregnated SrFe _{0.75} Mo _{0.25} O ₃ cathodes. <i>Journal of Power Sources</i> , 2014, 247, 556-561.	7.8	30
27	Co-infiltrating Pr _{0.6} Sr _{0.4} FeO ₃ -Ce _{1-x} Pr _x O ₂ (x=0.1, 0.3, 0.5, 0.7, 0.9) mixed oxides into the La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O ₃ skeleton for use as low temperature solid oxide fuel cell cathodes. <i>Electrochimica Acta</i> , 2014, 143, 168-174.	5.2	5
28	High Activity of Nanoporous Sm _{0.2} Ce _{0.8} O ₂ @430L Composites for Hydrogen Electrooxidation in Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400883.	19.5	18
29	Improvement of a GDC-based composite cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Electroceramics</i> , 2014, 32, 339-343.	2.0	1
30	Evaluation of GdSrCoO ₄ intergrowth oxides as cathode materials for intermediate-temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , 2014, 133, 509-514.	5.2	12
31	Symmetrical solid oxide fuel cells with impregnated SrFe _{0.75} Mo _{0.25} O ₃ electrodes. <i>Journal of Power Sources</i> , 2014, 252, 58-63.	7.8	61
32	Novel architected metal-supported solid oxide fuel cells with Mo-doped SrFeO ₃ electrocatalysts. <i>Journal of Power Sources</i> , 2014, 267, 148-154.	7.8	28
33	A solid oxide cell yielding high power density below 600 °C. <i>RSC Advances</i> , 2012, 2, 4075.	3.6	51
34	A micro-nano porous oxide hybrid for efficient oxygen reduction in reduced-temperature solid oxide fuel cells. <i>Scientific Reports</i> , 2012, 2, 462.	3.3	35
35	A reduced temperature solid oxide fuel cell with nanostructured anodes. <i>Energy and Environmental Science</i> , 2011, 4, 3951.	30.8	121
36	Improving the stability of direct-methane solid oxide fuel cells using anode barrier layers. <i>Journal of Power Sources</i> , 2006, 158, 1313-1316.	7.8	102

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37	An Octane-Fueled Solid Oxide Fuel Cell. <i>Science</i> , 2005, 308, 844-847.	12.6	488
38	Preparation and Properties of a Ni-Al ₂ O ₃ Composite by a Sol-Gel Process. <i>Journal of Materials Science Letters</i> , 1999, 18, 707-710.	0.5	7