# Yicheng Zhao

List of Publications by Year
in descending order

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|---|---|---|---|
| 52 papers | 2,003 citations | 236925 25 h-index | 243625 44 g-index |
| 53 all docs | 53 docs citations | 53 times ranked | 1663 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A high performance composite ionic conducting electrolyte for intermediate temperature fuel cell and evidence for ternary ionic conduction. Journal of Power Sources, 2009, 188, 156-162. | 7.8 | 152 |
| 2 | Intermediate temperature fuel cell with a doped ceriaâ€“carbonate composite electrolyte. Journal of Power Sources, 2010, 195, 3149-3154. | 7.8 | 134 |
| 3 | Recent progress on solid oxide fuel cell: Lowering temperatureÂandÂutilizing non-hydrogen fuels. International Journal of Hydrogen Energy, 2013, 38, 16498-16517. | 7.1 | 131 |
| 4 | A direct carbon fuel cell with (molten carbonate)/(doped ceria) composite electrolyte. Journal of Power Sources, 2010, 195, 5581-5586. | 7.8 | 120 |
| 5 | Single layer fuel cell based on a composite of Ce0.8Sm0.2O2â^'Î´â€“Na2CO3 and a mixed ionic and electronic conductor Sr2Fe1.5Mo0.5O6â^'Î´. Journal of Power Sources, 2014, 249, 270-276. | 7.8 | 96 |
| 6 | Utilization of corn cob biochar in a direct carbon fuel cell. Journal of Power Sources, 2014, 270, 312-317. | 7.8 | 91 |
| 7 | Membranes in non-aqueous redox flow battery: A review. Journal of Power Sources, 2021, 500, 229983. | 7.8 | 70 |
| 8 | A-Site Ordered Double Perovskite with in Situ Exsolved Coreâ€“Shell Nanoparticles as Anode for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 6995-7005. | 8.0 | 67 |
| 9 | Effect of citric acid addition on the morphology and activity of Ni2P supported on mesoporous zeolite ZSM-5 for the hydrogenation of 4,6-DMDBT and phenanthrene. Journal of Catalysis, 2017, 345, 295-307. | 6.2 | 62 |
| 10 | Ni2P clusters on zeolite nanosheet assemblies with high activity and good stability in the hydrodesulfurization of 4,6-dimethyldibenzothiophene. Journal of Catalysis, 2016, 338, 210-221. | 6.2 | 59 |
| 11 | A high-performance all-iron non-aqueous redox flow battery. Journal of Power Sources, 2020, 445, 227331. | 7.8 | 59 |
| 12 | Quantifying multi-ionic conduction through doped ceria-carbonate composite electrolyte by a current-interruption technique and product analysis. International Journal of Hydrogen Energy, 2012, 37, 8556-8561. | 7.1 | 55 |
| 13 | Sr2Fe2â^'Mo O6â^' perovskite as an anode in a solid oxide fuel cell: Effect of the substitution ratio. Catalysis Today, 2016, 259, 417-422. | 4.4 | 46 |
| 14 | Oxide ion and proton conduction in doped ceriaâ€“carbonate composite materials. International Journal of Hydrogen Energy, 2013, 38, 1553-1559. | 7.1 | 45 |
| 15 | Improved activity and stability of Ni-Ce0.8Sm0.2O1.9 anode for solid oxide fuel cells fed with methanol through addition of molybdenum. Journal of Power Sources, 2016, 320, 251-256. | 7.8 | 43 |
| 16 | Validation of H+/O2â^' conduction in doped ceriaâ€“carbonate composite material using an electrochemical pumping method. International Journal of Hydrogen Energy, 2012, 37, 11378-11382. | 7.1 | 42 |
| 17 | A non-aqueous redox flow battery based on tris(1,10-phenanthroline) complexes of iron(II) and cobalt(II). Journal of Power Sources, 2015, 293, 778-783. | 7.8 | 41 |
| 18 | A benzophenone-based anolyte for high energy density all-organic redox flow battery. International Journal of Hydrogen Energy, 2017, 42, 17488-17494. | 7.1 | 41 |

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|---|---|---|---|
| 19 | Enhanced oxygen reduction reaction activity of BaCe0.2Fe0.8O3-Î´ cathode for proton-conducting solid oxide fuel cells via Pr-doping. Journal of Power Sources, 2021, 495, 229776. | 7.8 | 40 |
| 20 | Enhancing the performance of an all-organic non-aqueous redox flow battery. Journal of Power Sources, 2019, 443, 227283. | 7.8 | 38 |
| 21 | A single layer solid oxide fuel cell composed of La2NiO4 and doped ceria-carbonate with H2 and methanol as fuels. International Journal of Hydrogen Energy, 2016, 41, 9059-9065. | 7.1 | 34 |
| 22 | Enhanced efficiency of hematite photoanode for water splitting with the doping of Ge. International Journal of Hydrogen Energy, 2018, 43, 12646-12652. | 7.1 | 33 |
| 23 | A SnO2-samarium doped ceria additional anode layer in a direct carbon fuel cell. Journal of Power Sources, 2016, 306, 387-393. | 7.8 | 32 |
| 24 | Carbon-resistant Ni1-xCox-Ce0.8Sm0.2O1.9 anode for solid oxide fuel cells fed with methanol. Catalysis Today, 2017, 298, 250-257. | 4.4 | 32 |
| 25 | Improve electrical conductivity of reduced La2Ni0.9Fe0.1O4+Î´ as the anode of a solid oxide fuel cell by carbon deposition. International Journal of Hydrogen Energy, 2015, 40, 9783-9789. | 7.1 | 29 |
| 26 | ZnO-promoted surface diffusion on NiO-Ce0.8Sm0.2O1.9 anode for solid oxide fuel cell. Journal of Power Sources, 2019, 423, 290-296. | 7.8 | 26 |
| 27 | Ferrocene/anthraquinone based bi-redox molecule for symmetric nonaqueous redox flow battery. Journal of Power Sources, 2020, 480, 229132. | 7.8 | 26 |
| 28 | Improved electrochemical oxidation kinetics of La0.5Ba0.5FeO3-Î´ anode for solid oxide fuel cells with fluorine doping. Journal of Power Sources, 2022, 521, 230932. | 7.8 | 26 |
| 29 | Hydrothermally synthesized NiO-samarium doped ceria nano-composite as an anode material for intermediate-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2017, 42, 22192-22200. | 7.1 | 24 |
| 30 | Sm0.5Ba0.5MnO3-Î´ anode for solid oxide fuel cells with hydrogen and methanol as fuels. Catalysis Today, 2017, 298, 33-39. | 4.4 | 24 |
| 31 | Molybdenum substitution at the B-site of lanthanum strontium titanate anodes for solid oxide fuel cells. International Journal of Hydrogen Energy, 2017, 42, 22294-22301. | 7.1 | 22 |
| 32 | Effect of Sn addition on improving the stability of Ni-Ce0.8Sm0.2O1.9 anode material for solid oxide fuel cells fed with dry CH4. Catalysis Today, 2019, 330, 209-216. | 4.4 | 22 |
| 33 | Enhanced activity and stability of Sr2FeMo0.65Ni0.35O6-Î´ anode for solid oxide fuel cells with Na doping. Journal of Power Sources, 2019, 425, 103-109. | 7.8 | 21 |
| 34 | A high-rate nonaqueous organic redox flow battery. Journal of Power Sources, 2021, 495, 229819. | 7.8 | 21 |
| 35 | Carbon dioxide permeation through ceramic-carbonate dual-phase membrane-effects of sulfur dioxide. Journal of Membrane Science, 2017, 540, 477-484. | 8.2 | 19 |
| 36 | Effects of surface modification on the reactivity of activated carbon in direct carbon fuel cells. Electrochimica Acta, 2018, 284, 630-638. | 5.2 | 19 |

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|---|---|---|---|
| 37 | Improved Performance of Ni-Mo Based Anode for Direct Methanol Solid Oxide Fuel Cells with the Addition of Rare Earth Oxides. Journal of the Electrochemical Society, 2017, 164, F1142-F1148. | 2.9 | 15 |
| 38 | A LaNi0.9Co0.1O3 coated Ce0.8Sm0.2O1.9 composite anode for solid oxide fuel cells fed with methanol. Catalysis Today, 2019, 327, 220-225. | 4.4 | 14 |
| 39 | Effects of manganese oxides on the activity and stability of Ni-Ce0.8Sm0.2O1.9 anode for solid oxide fuel cells with methanol as the fuel. Catalysis Today, 2019, 330, 222-227. | 4.4 | 14 |
| 40 | Improved activity of oxygen in Niâ€“Ce0.8Sm0.2O2-Î´ anode for solid oxide fuel cell with Pr doping. Journal of Power Sources, 2020, 451, 227809. | 7.8 | 14 |
| 41 | Highly selective metal-organic framework-based (MOF-5) separator for non-aqueous redox flow battery. Chemical Engineering Journal, 2022, 433, 133564. | 12.7 | 14 |
| 42 | Coking-resistant NbOx-Ni-Ce0.8Sm0.2O1.9 anode material for methanol-fueled solid oxide fuel cells. International Journal of Hydrogen Energy, 2018, 43, 12748-12755. | 7.1 | 13 |
| 43 | A highly active Ni/Ce<sub>0.8</sub>Sm<sub>0.2</sub>O<sub>1.9</sub>anode catalyst with a three-dimensionally ordered macroporous structure for solid oxide fuel cells. Journal of Materials Chemistry A, 2020, 8, 7792-7800. | 10.3 | 13 |
| 44 | A high performing perovskite cathode with in situ exsolved Co nanoparticles for H2O and CO2 solid oxide electrolysis cell. Catalysis Today, 2021, 364, 89-96. | 4.4 | 13 |
| 45 | Fabrication of MnCo2O4-YSZ Composite Cathodes for Solid Oxide Fuel Cells by Electrodeposition. Journal of the Electrochemical Society, 2016, 163, F863-F866. | 2.9 | 10 |
| 46 | A High-Performance Direct Carbon Fuel Cell with Reed Rod Biochar as Fuel. Journal of the Electrochemical Society, 2019, 166, F175-F179. | 2.9 | 10 |
| 47 | Bulk phase charge transfer in focus â€“ And in sequential along with surface steps. Catalysis Today, 2021, 364, 2-6. | 4.4 | 8 |
| 48 | Solid oxide fuel cell with a spin-coated yttria stabilized zirconia/gadolinia doped ceria bi-layer electrolyte. RSC Advances, 2022, 12, 13220-13227. | 3.6 | 7 |
| 49 | A systematic study of the co-solvent effect for an all-organic redox flow battery. RSC Advances, 2018, 8, 24422-24427. | 3.6 | 6 |
| 50 | Cu-Ce0.8Sm0.2O2-Î´ anode for electrochemical oxidation of methanol in solid oxide fuel cell: Improved activity by La and Nd doping. Solid State Ionics, 2021, 369, 115728. | 2.7 | 6 |
| 51 | Linear discharge model, power losses and overall efficiency of the solid oxide fuel cell with thin film samarium doped ceria electrolyte. Part II: Power losses and overall efficiency. International Journal of Hydrogen Energy, 2017, 42, 17522-17527. | 7.1 | 3 |
| 52 | Linear discharge model, power losses and overall efficiency of the solid oxide fuel cell with thin film samarium doped ceria electrolyte. Part I: Linear discharge model. International Journal of Hydrogen Energy, 2017, 42, 17528-17535. | 7.1 | 1 |