

# Yifeng Zheng

## 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.

55  
papers

978  
citations

18  
h-index

29  
g-index

59  
ext. papers

1,223  
ext. citations

6.5  
avg, IF

4.2  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 55 | Enhancing the performance of symmetrical solid oxide fuel cells with Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.5</sub> O <sub>6-<math>\delta</math></sub> electrodes via infiltration of Pr <sub>6</sub> O <sub>11</sub> bifunctional catalyst. <i>Electrochimica Acta</i> , <b>2022</b> , 402, 139569                      | 6.7  | 1         |
| 54 | Performance of ceramic cathode current collector with novel microstructure for solid oxide fuel cells. <i>Ceramics International</i> , <b>2021</b> , 47, 8453-8460  | 5.1  |           |
| 53 | 3D non-isothermal dynamic simulation of high temperature proton exchange membrane fuel cell in the start-up process. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 2577-2593  | 6.7  | 7         |
| 52 | Mn-doped Ruddlesden-Popper oxide La <sub>1.5</sub> Sr <sub>0.5</sub> NiO <sub>4+<math>\delta</math></sub> as a novel air electrode material for solid oxide electrolysis cells. <i>Ceramics International</i> , <b>2021</b> , 47, 1208-1217   | 5.1  | 3         |
| 51 | Electrochemical CO <sub>2</sub> reduction to CO using solid oxide electrolysis cells with high-performance Ta-doped bismuth strontium ferrite air electrode. <i>Energy</i> , <b>2021</b> , 228, 120579  | 7.9  | 5         |
| 50 | La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> as cathode for electrolysis and co-electrolysis of CO <sub>2</sub> and H <sub>2</sub> O in solid oxide electrolysis cell. <i>Ceramics International</i> , <b>2021</b> , 47, 23350-23361                          | 5.1  | 0         |
| 49 | Ca-doped La <sub>0.75</sub> Sr <sub>0.25</sub> Cr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> cathode with enhanced CO <sub>2</sub> electrocatalytic performance for high-temperature solid oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 33349-33359 | 6.7  | 1         |
| 48 | High catalytic activity of Fe-based perovskite fuel electrode for direct CO <sub>2</sub> electroreduction in SOECs. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 888, 161573  | 5.7  | 4         |
| 47 | Highly active and stable A-site Pr-doped LaSrCrMnO-based fuel electrode for direct CO <sub>2</sub> solid oxide electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 14648-14659  | 6.7  | 7         |
| 46 | Effect of Cl doping on the electrochemical performance of Sr <sub>2</sub> Fe <sub>1.5</sub> Mo <sub>0.5</sub> O <sub>6-<math>\delta</math></sub> cathode material for solid oxide fuel cells. <i>Ceramics International</i> , <b>2020</b> , 46, 22787-22796   | 5.1  | 9         |
| 45 | Mo-doped La <sub>0.5</sub> Sr <sub>0.4</sub> FeO <sub>3-<math>\delta</math></sub> as an efficient fuel electrode for direct electrolysis of CO <sub>2</sub> in solid oxide electrolysis cells. <i>Electrochimica Acta</i> , <b>2020</b> , 337, 135794   | 6.7  | 13        |
| 44 | Systematic study of short circuit activation on the performance of PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 46, 23489-23489   | 6.7  | 1         |
| 43 | Enhanced performance of NiO/BYSZ planar anode-supported SOFC with an anode functional layer. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 88-98  | 4.3  | 7         |
| 42 | Effect of electrolyte composite on the performance of SmBa <sub>0.5</sub> Sr <sub>0.25</sub> Ca <sub>0.25</sub> CoFeO <sub>5+<math>\delta</math></sub> cathode for IT-SOFCs. <i>Ionics</i> , <b>2020</b> , 26, 281-291  | 2.7  | 2         |
| 41 | A facile method to fabricate proton-conducting BaZr <sub>0.5</sub> Y <sub>0.5</sub> O <sub>3-<math>\delta</math></sub> electrolyte with a large grain size and high conductivity. <i>Ceramics International</i> , <b>2019</b> , 45, 24946-24952   | 5.1  | 6         |
| 40 | Understanding the occurrence of the individual CO <sub>2</sub> electrolysis during H <sub>2</sub> O-CO <sub>2</sub> co-electrolysis in classic planar Ni-YSZ/YSZ/LSM-YSZ solid oxide cells. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 440-448   | 6.7  | 4         |
| 39 | PrBaMn <sub>2</sub> O <sub>5+<math>\delta</math></sub> with praseodymium oxide nano-catalyst as electrode for symmetrical solid oxide fuel cells. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 257, 117868   | 21.8 | 28        |

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|----|---|------|----|
| 38 | Effect of dual doping on the structure and performance of garnet-type $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ ceramic electrolytes for solid-state lithium-ion batteries. <i>Ceramics International</i> , <b>2019</b> , 45, 17874-17883    | 5.1  | 8  |
| 37 | Effect of $\text{BaO} \cdot \text{B}_2\text{O}_3$ composite sintering aid on sinterability and electrical property of $\text{BaZr}_{0.85}\text{Y}_{0.15}\text{O}_3$ -ceramic. <i>Ceramics International</i> , <b>2019</b> , 45, 13679-13684         | 5.1  | 7  |
| 36 | Sr-substituted $\text{SmBa}_{0.75}\text{Ca}_{0.25}\text{CoFeO}_5$ as a cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 616-624   | 5.7  | 6  |
| 35 | Study of $\text{CO}_2$ and $\text{H}_2\text{O}$ direct co-electrolysis in an electrolyte-supported solid oxide electrolysis cell by aqueous tape casting technique. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 28939-28946 | 6.7  | 7  |
| 34 | Asymmetric anode substrate fabricated by phase inversion process and its interface modification for solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 742, 20-28   | 5.7  | 17 |
| 33 | Modifying the electrode-electrolyte interface of anode supported solid oxide fuel cells (SOFCs) by laser-machining. <i>Energy Conversion and Management</i> , <b>2018</b> , 171, 1030-1037  | 10.6 | 15 |
| 32 | YSZ electrolyte support with novel symmetric structure by phase inversion process for solid oxide fuel cells. <i>Energy Conversion and Management</i> , <b>2018</b> , 177, 11-18  | 10.6 | 10 |
| 31 | High-temperature electrolysis of simulated flue gas in solid oxide electrolysis cells. <i>Electrochimica Acta</i> , <b>2018</b> , 280, 206-215  | 6.7  | 13 |
| 30 | Ca and Fe co-doped $\text{SmBaCo}_2\text{O}_5$ -layered perovskite as an efficient cathode for intermediate-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 964-970                                 | 5.7  | 14 |
| 29 | Modelling of solid oxide electrolyser cell using extreme learning machine. <i>Electrochimica Acta</i> , <b>2017</b> , 251, 137-144  | 6.7  | 14 |
| 28 | Influence of $\text{MoO}_3$ on boron aluminosilicate glass-ceramic coating for enhancing titanium high-temperature oxidation resistance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 453-462  | 5.7  | 9  |
| 27 | A Ca and Fe Co-Doped Layered Perovskite as Stable Air Electrode in Solid Oxide Electrolyzer Cells under High-Current Electrolysis. <i>Electrochimica Acta</i> , <b>2017</b> , 251, 581-587  | 6.7  | 14 |
| 26 | Quantitative electrochemical contributions of cells and stacked interfacial contacts in solid-oxide electrolysis cells. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 4538-4545   | 6.7  | 6  |
| 25 | Scaling Up and Characterization of Single-Layer Fuel Cells. <i>Energy Technology</i> , <b>2016</b> , 4, 967-972   | 3.5  | 3  |
| 24 | Quantitative contribution of resistance sources of components to stack performance for solid oxide electrolysis cells. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 736-740   | 8.9  | 13 |
| 23 | Three-dimensional CFD modeling of transport phenomena in multi-channel anode-supported planar SOFCs. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 84, 942-954   | 4.9  | 36 |
| 22 | Comparison of performance and degradation of large-scale solid oxide electrolysis cells in stack with different composite air electrodes. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 2460-2472                             | 6.7  | 44 |
| 21 | Achieving high-efficiency hydrogen production using planar solid-oxide electrolysis stacks. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 10833-10842   | 6.7  | 40 |

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| 20 | Improving the electrochemical properties of SSZ electrolyte-supported solid oxide fuel cells. <i>Ceramics International</i> , <b>2014</b> , 40, 14621-14626   | 5.1 | 12 |
| 19 | Effect and mechanism of Cr deposition in cathode current collecting layer on cell performance inside stack for planar solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 245, 119-128  | 8.9 | 15 |
| 18 | Investigation of 30-cell solid oxide electrolyzer stack modules for hydrogen production. <i>Ceramics International</i> , <b>2014</b> , 40, 5801-5809  | 5.1 | 24 |
| 17 | Sinterability and electrical properties of ZnO-doped Ce <sub>0.8</sub> Y <sub>0.2</sub> O <sub>1.9</sub> electrolytes prepared by an EDTA-triurate complexing method. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 94-98   | 5.7 | 26 |
| 16 | Effect of Fe <sub>2</sub> O <sub>3</sub> on Sm-doped ceria system solid electrolyte for IT-SOFCs. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 546-550   | 5.7 | 29 |
| 15 | Effect of Dy on the properties of Sm-doped ceria electrolyte for IT-SOFCs. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 1244-1248  | 5.7 | 26 |
| 14 | Performance of LaBaCo <sub>2</sub> O <sub>5</sub> +Ag with B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -PbO frit composite cathodes for intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9939-9945                         | 8.9 | 10 |
| 13 | Effect of the sintering temperature on the properties of Ce <sub>0.85</sub> La <sub>0.10</sub> Ca <sub>0.05</sub> O <sub>2.7</sub> electrolyte material. <i>Materials Research Bulletin</i> , <b>2011</b> , 46, 130-135   | 5.1 | 6  |
| 12 | Effect of Sr on Sm-doped ceria electrolyte. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5128-5135   | 5.7 | 64 |
| 11 | Effect of zinc oxide doping on the grain boundary conductivity of Ce <sub>0.8</sub> Ln <sub>0.2</sub> O <sub>1.9</sub> ceramics (Ln=Y, Sm, Gd). <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6131-6137  | 8.9 | 26 |
| 10 | Effect of zinc oxide on yttria doped ceria. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 3130-3134  | 8.9 | 49 |
| 9  | Effect of chromium poisoning on the electrochemical properties of NdBaCo <sub>2</sub> O <sub>5</sub> +Ag cathode for IT-SOFCs. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2457-2462  | 6.7 | 19 |
| 8  | Preparation and characterization of Nd <sub>2-x</sub> Sr <sub>x</sub> CoO <sub>4</sub> +Ag cathodes for intermediate-temperature solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 5594-5600   | 6.7 | 23 |
| 7  | Effect of Sm and Mg co-doping on the properties of ceria-based electrolyte materials for IT-SOFCs. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 775-779   | 5.1 | 61 |
| 6  | La and Ca co-doped ceria-based electrolyte materials for IT-SOFCs. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 1717-1721   | 5.1 | 56 |
| 5  | Electrochemical characterization of Co-doped Sr <sub>0.8</sub> Ce <sub>0.2</sub> MnO <sub>3</sub> +Ag cathodes on Sm <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>1.9</sub> -electrolyte for intermediate-temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 3532-3537 | 6.7 | 7  |
| 4  | Oxygen reduction mechanism of NdBaCo <sub>2</sub> O <sub>5</sub> +Ag cathode for intermediate-temperature solid oxide fuel cells under cathodic polarization. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2416-2420   | 6.7 | 67 |
| 3  | Effect of Ca <sup>2+</sup> and Zn <sup>2+</sup> cations substitution on the properties of La <sub>0.85</sub> Sr <sub>0.15</sub> CrO <sub>3</sub> as SOFC interconnect. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 480, 958-961  | 5.7 | 7  |

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| 2 | The effect of Sr on the properties of Y-doped ceria electrolyte for IT-SOFCs. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 486, 586-589  | 5.7 | 44 |
| 1 | Effect of Co doping on the properties of Sr <sub>0.8</sub> Ce <sub>0.2</sub> MnO <sub>3</sub> cathode for intermediate-temperature solid-oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4681-4688 | 6.7 | 31 |