

lxywb@ustl.edu.cn

- 1. Biao Wang, Yuan Ji*, et al. Layered perovskite $PrBa_{0.5}Sr_{0.5}CoCuO_{5+}$ as a cathode for intermediate temperature solid oxide fuel cells Journal of alloys and compounds 606 2014
- 2. Biao Wang, Yuan Ji*, et al. Characterization of $SmBa_{0.5}Sr_{0.5}CoCuO_{5+}$ cathode based on LSGM and GDC electrolyte for intermediate temperature solid oxide fuel cells International Journal of hydrogen energy 41(31), 2016, 13603-13610
- 3. Biao Wang, Yuan Ji*, et al. Synthesis and characterization of $Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.1}Ni_{0.1}O_{3}$ -cathode for intermediate temperature solid oxide fuel cells International Journal of hydrogen energy 43 (13) 2018,6677-6685.
- 4. Biao Wang, Yuan Ji*, et al. Layered perovskite GdBa_{0.5}Sr_{0.5}CoCuO₅₊ as a cathode for

- intermediate temperature solid oxide fuel cells. Material research innovations, 2014, 1-4
- 5. Biao Wang*, Yuan Ji*, et al. Optimization electrochemical performance and thermal compatibility via $SmBa_{0.5}Sr_{0.5}CoCuO_{5+}$ and $Ce_{0.9}Gd_{0.1}O_{1.95}$ composite cathodes for intermediate-temperature solid oxide fuel cells. Journal of materials science-materials in electronics, 31(17),2020,14614-14624.
- 6. Jie Kang, Biao Wang* Bingbing Niu*, et al. Structure and performance of Pr, Sm, Y co-doped cerium-based electrolyte for intermediate temperature solid oxide fuel cells, Materials Letters 305 (2021) 130855.
- 7. Jie Kang, Wenqiang Feng, Biao Wang* Bingbing Niu, et al. Performance optimization of Ca and Y co-doped CeO₂-based electrolyte for intermediate-temperature solid oxide fuel cells, Journal of alloys and compounds, 913, 2022, 165317
- 8. Chengyi Wen¹, Kai Chen¹, Biao Wang, Bingbing Niu, High performance and stability of PrBa_{0.5}Sr_{0.5}Fe₂O₅₊ symmetrical electrode for intermediate temperature solid oxide fuel cells, Solid State Ionics, 2022,
- 9. Dong Guo , Chengyi Wen , Chunling Lu , Wenqiang Feng , Henan Wu , Shoushan Gao , Bingbing Niu *, Biao Wang * Preparation and characterization of highly active and stable $NdBaCo_{0.8}Fe_{0.8}Ni_{0.4}O_{5+} \quad oxygen \quad electrode \quad for \quad solid \quad oxide \quad fuel \quad cells. \quad Electrochimica \quad Acta, \\ 439(2023)114061.$
- 10.High activity and stability of cobalt-free $SmBa_{0.5}Sr_{0.5}Fe_2O_{5+\delta}$ perovskite oxide as positive material for solid oxide fuel cells. Ceramics International, 49(2023)34277-34290
- 11. Perovskite $SrCo_{0.5}Fe_{0.25}Cu_{0.2}Nb_{0.05}O_{3-\delta}$ cathode for intermediate-temperature solid oxide fuel cells: Improved working stability and CO2 tolerance. Solid State Ionics, 400(2023)116341.