

# Anna Stępień

## Lista publikacji

1. Olszewska, A., Du, Z., Świerczek, K., Zhao, H., Dabrowski, B. (2018). Novel  $\text{ReBaCo}_{1.5}\text{Mn}_{0.5}\text{O}_{5+\delta}$  (Re: La, Pr, Nd, Sm, Gd and Y) perovskite oxide: influence of manganese doping on the crystal structure, oxygen nonstoichiometry, thermal expansion, transport properties, and application as a cathode material in solid oxide fuel cells. *Journal of Materials Chemistry A*, 6(27), 13271-13285.
2. Olszewska, A., Świerczek, K., Skubida, W., Du, Z., Zhao, H., Dabrowski, B. (2018). Versatile application of redox processes for  $\text{REBaCoMnO}_{5+\delta}$  (RE: La, Pr, Nd, Sm, Gd, and Y) oxides. *The Journal of Physical Chemistry C*, 123(1), 48-61.
3. Olszewska, A., Zhang, Y., Marzec, M., Świerczek, K., Zhao, Z., Du H., Dabrowski, B. (2019). Search for novel cathode materials for SOFCs in layered  $\text{ReBaCo}_{2-x}\text{Mn}_x\text{O}_{5+\delta}$  (Re: rare earth elements) perovskite-type oxides:  $\text{ReBaCo}_{0.5}\text{Mn}_{1.5}\text{O}_{5+\delta}$  series, *International Journal of Hydrogen Energy* 44, 27587.
4. Olszewska, A., Świerczek, K., & Niemczyk, A. (2020). Peculiar Properties of Electrochemically Oxidized  $\text{SmBaCo}_{2-x}\text{Mn}_x\text{O}_{5+\delta}$  ( $x=0; 0.5$  and  $1$ ) A-Site Ordered Perovskites. *Crystals*, 10(3), 205.
5. Dąbrowa, J., Olszewska, A., Falkenstein, A., Schwab, C., Szymczak, M., Zajusz, M., Moździerz, M., Mikuła, A., Zielińska, K., Berent, K., Czeppe, T., Martin M., Świerczek, K. (2020). An innovative approach to design SOFC air electrode materials: high entropy  $\text{La}_{1-x}\text{Sr}_x(\text{Co}, \text{Cr}, \text{Fe}, \text{Mn}, \text{Ni})\text{O}_{3-\delta}$  ( $x=0, 0.1, 0.2, 0.3$ ) perovskites synthesized by the sol-gel method. *Journal of Materials Chemistry A*, 8(46), 24455-24468. DOI: 10.1039/D0TA06356H