

## Kun Zheng

### Lista publikacji

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#### Publikacje w czasopismach:

1. Zheng K., Świerczek K., Polfus J., Sunding M., Pishahang M., Norby T., **Carbon deposition and sulfur poisoning in  $SrFe_{0.75}Mo_{0.25}O_{3-\delta}$  and  $SrFe_{0.5}Mn_{0.25}Mo_{0.25}O_{3-\delta}$  electrode materials for symmetrical SOFCs**, Journal of The Electrochemical Society 162 (9) (2015) F1078-F1087, IF (2014) 3,266
2. Yang F., Zhao H., Yang J., Fang M., Lu Y., Du Z., Świerczek K., Zheng K., **Structure and oxygen permeability of  $BaCo_{0.7}Fe_{0.3-x}In_xO_{3-\delta}$  ceramic Membranes**, Journal of Membrane Science 492 (2015) 559-567, IF (2014) 5,056
3. Świerczek K., Zając W., Klimkowicz A., Zheng K., Malikova N., Dabrowski B., **Crystal structure and proton conductivity in highly oxygen-deficient  $Ba_{1-x}La_x(In,Zr,Sn)O_{3-\delta}$  perovskites**, Solid State Ionics 275 (2015) 58-61, IF (2014) 2,561
4. Lu Y., Zhao H., Cheng X., Jia Y., Du X., Fang M., Du Z., Zheng K., Świerczek K., **Investigation of In-doped  $BaFeO_{3-\delta}$  perovskitetype oxygen permeable membranes**, Journal of Materials Chemistry A 3 (2015) 6202-6214 IF (2014) 7,443
5. Zheng K., Klimkowicz A., Świerczek K., Malik A., Ariga Y., Tominaga T., Takasaki A., **Chemical diffusion and surface exchange in selected Ln–Ba–Sr–Co–Fe perovskite-type oxides**, Journal of Alloys and Compounds 645 (2015) S357-S360, IF (2014) 2,999
6. Zheng K., Świerczek K., **Physicochemical properties of rock salt-type ordered  $Sr_2MMoO_6$  ( $M = Mg, Mn, Fe, Co, Ni$ )**, Journal of the European Ceramic Society 34 (2014) 4273-4284, IF (2013) 2,947
7. Zheng K., Świerczek K., Bratek J., Klimkowicz A., **Cation-ordered perovskite-type anode and cathode materials for Solid Oxide Fuel Cells**, Solid State Ionics 262 (2014) 354-358, IF (2013) 2,561
8. Klimkowicz A., Świerczek K., Zheng K., Baranowska M., Takasaki A., Dabrowski B., **Evaluation of  $BaY_{1-x}Pr_xMn_2O_{5+\delta}$  oxides for oxygen storage technology**, Solid State Ionics 262 (2014) 659-663, IF (2013) 2,561
9. Świerczek K., Yoshikura N., Zheng K., Klimkowicz A., **Correlation between crystal and transport properties in  $LnBa_{0.5}Sr_{0.5}Co_{1.5}Fe_{0.5}O_{5+\delta}$  ( $Ln$  - selected lanthanides, Y)**, Solid State Ionics 262 (2014) 645-649, IF (2013) 2,561

10. Du Z., Zhao H., Shen Y., Wang L., Fang M., Świerczek K., Zheng K., *Evaluation of  $\text{La}_{0.3}\text{Sr}_{0.7}\text{Ti}_{1-x}\text{Co}_x\text{O}_3$  as potential cathode material for Solid Oxide Fuel Cells*, Journal of Materials Chemistry A 2(26) (2014) 10290-10299, IF (2014) 7,443
11. Zheng K., Świerczek K., Zając W., Klimkowicz A., *Rock salt ordered-type double perovskite anode materials for Solid Oxide Fuel Cells*, Solid State Ionics 257 (2014) 9-16, IF (2013) 2,561
12. Shen Y., Zhao H., Xu J., Zhang X., Zheng K., Świerczek K., *Effect of ionic size of dopants on the lattice structure, electrical and electrochemical properties of  $\text{La}_{2-x}\text{M}_x\text{NiO}_{4+\delta}$  ( $M = \text{Ba}, \text{Sr}$ ) cathode materials*, International Journal of Hydrogen Energy 39(2) (2014) 1023-1029, IF (2013) 3,313
13. Świerczek K., Klimkowicz A., Zheng K., Dabrowski B., *Synthesis, crystal structure and electrical properties of A-site cation ordered  $\text{BaErMn}_2\text{O}_5$  and  $\text{BaErMn}_2\text{O}_6$* , Journal of Solid State Chemistry 203 (2013) 68-73, IF (2013) 2,200
14. Baster D., Zheng K., Zając W., Świerczek K., Molenda J., *Toward elucidation of delithiation mechanism of zinc-substituted  $\text{LiFePO}_4$* , Electrochimica Acta 92 (2013) 79-86, IF (2013) 4,086
15. Kuroda C., Zheng K., Świerczek K., *Characterization of novel  $\text{GdBa}_{0.5}\text{Sr}_{0.5}\text{Co}_{2-x}\text{Fe}_x\text{O}_{5+\delta}$  perovskites for application in IT-SOFC cells*, International Journal of Hydrogen Energy 38(2) (2013) 1027-1038, IF (2013) 2,930
16. Zając W., Rusinek D., Zheng K., Molenda J., *Applicability of Gd-doped  $\text{BaZrO}_3$ ,  $\text{SrZrO}_3$ ,  $\text{BaCeO}_3$  and  $\text{SrCeO}_3$  proton conducting perovskites as electrolytes for solid oxide fuel cells*, Central European Journal of Chemistry 11(4) (2013) 471, IF (2013) 1,329.
17. Zheng K., Gorzkowska-Sobaś A., Świerczek K., *Evaluation of  $\text{Ln}_2\text{CuO}_4$  ( $\text{Ln}: \text{La}, \text{Pr}, \text{Nd}$ ) oxides as cathode materials for IT-SOFCs*, Materials Research Bulletin 47(12) (2012) 4089-4095, IF (2013) 1,968
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19. Zheng K., Świerczek K., Carcases N.M., Norby T., *Coking Study in Anode Materials for SOFCs: Physicochemical Properties and Behavior of Mo-containing Perovskites in CO and  $\text{CH}_4$  Fuels*, ECS Transactions 64 (2) (2014) 103.

20. Świerczek K., Zheng K., Klimkowicz A., *Optimization of transport properties of A-site ordered  $\text{LnBa}_{1-x}\text{Sr}_x\text{Co}_{2-y}\text{Fe}_y\text{O}_{5+\delta}$  perovskite-type cathode materials*, ECS Transactions 57(1) (2013) 1993.
21. Klimkowicz A., Zheng K., Fiołka G., K. Świerczek, *Modyfikacja  $\text{BaYMn}_2\text{O}_{5+\delta}$  w aspekcie rozwoju technologii magazynowania tlenu w tlenkach perowskitowych*, Chemik 67(12) (2013) 11, praca w wersji polskiej i angielskiej.
22. Klimkowicz A., K. Zheng, G. Fiołka, K. Świerczek, *Materiały ceramiczne z grupy perowskitów podwójnych na bazie  $\text{BaYMn}_2\text{O}_{5+\delta}$  dla technologii magazynowania tlenu*, Materiały ceramiczne / Ceramic Materials 65(1) (2013) 92.
23. Świerczek K., Marzec J., Zheng K., Klimkowicz A., Molenda J., *Structural properties and mixed ionic-electronic transport in a-site ordered  $\text{LnBa}_{1-x}\text{Sr}_x\text{Co}_{2-y}\text{Fe}_y\text{O}_{5+\delta}$* , Biuletyn Polskiego Stowarzyszenia Wodoru i Ogniw Paliwowych = Bulletin of the Polish Hydrogen and Fuel Cells Association: ISSN 1896-7205, 2013 nr 7, s. 169.
24. Zheng K., Świerczek K., Du. Z, Zhao H., *Rock salt ordered-type double perovskite anode materials for solid oxide fuel cells*, Biuletyn Polskiego Stowarzyszenia Wodoru i Ogniw Paliwowych = Bulletin of the Polish Hydrogen and Fuel Cells Association: ISSN 1896-7205, 2013 nr 7, s. 131.
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26. Zheng K., Świerczek K., *Double-Perovskite-based anode materials for Solid Oxide Fuel Cells fueled by syngas*, European SOFC Forum 2012 : international conference on Solid Oxide Fuel Cell and Electrolyser : 26–29 June 2012, Lucerne, Switzerland, Pełny tekst na dołączonym, S. 179 -186.
27. Zheng K., Świerczek K., *Materiały anodowe z grupy  $\text{Sr}_{2-x}\text{Ba}_x\text{MMoO}_{6-\delta}$  (M: Fe, Co, Ni) dla zastosowania w ogniwach SOFC zasilanych gazem syntezowym*, Chemik : nauka-technika-rynek: ISSN 0009-2886, 2012 nr 7 suppl., s. 424.
28. Zheng K., Gorzkowska-Sobaś A., Świerczek K., *Evaluation of  $\text{Ln}_2\text{CuO}_{4+\delta}$  (Ln: La, Pr, Nd) oxides as cathode materials for IT-SOFC*, Biuletyn Polskiego Stowarzyszenia Wodoru i Ogniw Paliwowych = Bulletin of the Polish Hydrogen and Fuel Cells Association: ISSN 1896-7205, 2011 nr 6, s. 100.