Research outputs:

Enhanced reducibility and electronic conductivity of Nb or W doped Ce\(_{0.9}\)Gd\(_{0.1}\)O\(_{1.95-\delta}\) - Research output: Research - peer-review › Journal article – Annual report year: 2015

HIGH PERFORMANCE CERIA BASED OXYGEN MEMBRANE - Research output: Research › Patent – Annual report year: 2014

Ceramic materials for energy and environmental applications: Functionalizing of properties by tailored compositions - Research output: Research - peer-review › Book chapter – Annual report year: 2013

Conductivity and hydration trends in disordered fluorite and pyrochlore oxides: A study on lanthanum cerate–zirconate based compounds - Research output: Research - peer-review › Journal article – Annual report year: 2012

Conductivity study of dense BaCexZr(0.9−x)Y0.1O(3−δ) prepared by solid state reactive sintering at 1500 deg. C - Research output: Research - peer-review › Conference article – Annual report year: 2011

Conductivity study of dense BaZr0.9Y0.1O(3−δ) obtained by spark plasma sintering - Research output: Research - peer-review › Conference article – Annual report year: 2011

Durable and Robust Solid Oxide Fuel Cells - Research output: Research › Report – Annual report year: 2013

Effects of A- and B-site (co-)acceptor doping on the structure and proton conductivity of LaNbO4 - Research output: Research - peer-review › Conference article – Annual report year: 2011

LaCoO\(_3\): Promising cathode material for protonic ceramic fuel cells based on a BaCe\(_{0.2}\)Zr\(_{0.7}\)Y\(_{0.1}\)O\(_{3-\delta}\) electrolyte - Research output: Research - peer-review › Journal article – Annual report year: 2012

Microstructure and performance of La\(_{0.58}\)Sr\(_{0.4}\)Co\(_{0.2}\)Fe\(_{0.8}\)O\(_{3-\delta}\) cathodes deposited on BaCe\(_{0.2}\)Zr\(_{0.7}\)Y\(_{0.1}\)O\(_{3-\delta}\) by infiltration and spray pyrolysis - Research output: Research - peer-review › Journal article – Annual report year: 2012

Conductivity, transport number measurements and hydration thermodynamics of BaCe\(_{0.2}\)Zr\(_{0.7}\)Y(0.1 − \(\xi\))Ni\(_{\xi}\)O(3 − \(\delta\)) - Research output: Research - peer-review › Journal article – Annual report year: 2011

Enhanced sintering and conductivity study of cobalt or nickel doped solid solution of barium cerate and zirconate - Research output: Research - peer-review › Journal article – Annual report year: 2010

Structural and conductivity study of the proton conductor BaCe\(_{0.9−x}\)ZnxY0.1O(3−δ) at intermediate temperatures - Research output: Research - peer-review › Journal article – Annual report year: 2009

Water vapour solubility and conductivity study of the proton conductor BaCe\(_{0.9−x}\)ZnxY0.1O(3−δ) - Research output: Research - peer-review › Journal article – Annual report year: 2009

Projects:
Durable and high performing steam electrode for proton conducting solid oxide cells
Project: PhD