Research outputs:

Enhanced reducibility and electronic conductivity of Nb or W doped Ce_{0.9}Gd_{0.1}O_{1.95-δ}
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 BaCe_{x}Zr_{(0.9-x)}Y_{0.1}O_{(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 BaZr_{0.9}Y_{0.1}O_{(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 LaNbO_{4}
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-δ} 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-δ} cathodes deposited on BaCe_{0.2}Zr_{0.7}Y_{0.1}O_{3-δ} 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-ξ)}Ni_{ξ}O_{(3-δ)}
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)}Zr_{x}Y_{0.1}O_{(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)}Zr_{x}Y_{0.1}O_{(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