Presentations and Posters at National and International Conferences

- L.-S. Unger, S. Baumann, C. Niedrig, W. Menesklou, S. F. Wagner, W. E. Meulenberg, and E. Ivers-Tiffée, "Influence of Yttrium Doping on $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$", abstract submitted for oral presentation at the 20th International Conference on Solid State Ionics (SSI-20), Keystone CO/USA, June 2015.

- L.-S. Unger, C. Niedrig, W. Menesklou, S. F. Wagner, and E. Ivers-Tiffée, "Oxygen Transport in $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})_{1-x}\text{Y}_{x}\text{O}_{3-\delta}$ ($x = 0.01…0.1$) Determined by ECR Measurements", abstract submitted for poster presentation at the 20th International Conference on Solid State Ionics (SSI-20), Keystone CO/USA, June 2015.

- K. Asano, C. Niedrig, W. Menesklou, S. F. Wagner, and E. Ivers-Tiffée, "Modification of Oxygen/$(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{3-\delta}$ Interfaces Derived By Metal-Organic Deposition", abstract submitted for oral presentation at the 227th Meeting of The Electrochemical Society (ECS), Chicago IL/USA, May 2015.


- M. Meffert, P. Müller, H. Störmer, L.-S. Unger, C. Niedrig, S. F. Wagner, S. Saher, H. Bouwmeester, and E. Ivers-Tiffée, D. Gerthsen, "Effect of yttrium (Y) and zirconium (Zr) doping on the thermodynamical stability of the cubic $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ phase", poster presentation at the Microscopy & Microanalysis 2014 conference, Hartford CT/USA, August 2014.


- M. Meffert, P. Müller, H. Störmer, L.-S. Unger, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Effect of Yttrium (Y) doping on the thermodynamical stability of the cubic $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ phase", poster presentation at the 13th International Conference on Inorganic Membranes (ICIM 2014), Brisbane/Australia, July 2014.

- L.-S. Unger, M. Meffert, H. Störmer, C. Niedrig, S. F. Wagner, W. Menesklou, D. Gerthsen, and E. Ivers-Tiffée, "Surface activation of $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{3-\delta}$ by means of a $(\text{La}_{0.6}\text{Sr}_{0.4})\text{CoO}_{3-\delta}$ functional layer", oral presentation at the Electroceramics XIV Conference, Bucharest/Romania, June 2014.

- M. Meffert, P. Müller, H. Störmer, L.-S. Unger, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Effect of Yttrium doping on the cubic phase of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ studied by electron microscopy", oral presentation at the Electroceramics XIV Conference, Bucharest/Romania, June 2014.


- L.-S. Unger, M. Meffert, C. Niedrig, H. Störmer, W. Menesklou, S. F. Wagner, D. Gerthsen, and E. Ivers-Tiffée, "Enhanced Oxygen Surface Reaction in $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_{3-\delta}$ by Nanoscaled $(\text{La}_{0.6}\text{Sr}_{0.4})\text{CoO}_{3-\delta}$ Functional Layer", oral presentation at the E-MRS Spring Meeting 2014, Lille/France, May 2014.


E. Ivers-Tiffée, C. Niedrig, and S. F. Wagner, "MIEC Materials for Membrane Applications: Enhancing the Oxygen Transport", invited talk given at the IMCC 9 Symposium of the 225th Meeting of The Electrochemical Society (ECS), Orlando FL/USA, May 2014.


L. Unger, C. Niedrig, S. F. Wagner, W. Menesklou, and E. Ivers-Tiffée, "Sintering behavior and electrical characterization of (Ba$_{0.5}$Sr$_{0.5}$)(Co$_{0.8}$Fe$_{0.2}$)$_{1-y}$X$_y$O$_3$-$\delta$ (X = Y, Zr, y = 0.01…0.1)", poster presentation at the MRS Fall Meeting 2013, Boston MA/USA, December 2013.


M. Meffert, P. Müller, H. Störmer, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Influence of yttrium doping on the stability of the cubic Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_3$-$\delta$ phase studied by electron microscopy", poster presentation at the Summer School on "Inorganic membranes for green chemical production and clean power generation", Valencia/Spain, September 2013.


M. Meffert, P. Müller, H. Störmer, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Electron microscopy study of Yttrium-doped Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_3$-$\delta$", poster presentation at the Microscopy Conference (MC-2013), Regensburg/Germany, August 2013.


• C. Niedrig, W. Menesklou, S. F. Wagner, C.-Y. Yoo, H. J. M. Bouwmeester, and E. Ivers-Tiffée, "Oxygen Transport Parameters of co-doped (Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})_{0.97}X_{0.03}O_{3-δ} (X = Y, Zr)", poster presentation at the 19th International Conference on Solid State Ionics (SSI-19), Kyoto/Japan, June 2013.

• M. Meffert, P. Müller, H. Störmer, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Electron Microscopy Study of Yttrium-doped (Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})_{0.97}Y_{0.03}O_{3-δ}", oral presentation at the 19th International Conference on Solid State Ionics (SSI-19), Kyoto/Japan, June 2013.

• K. Asano, C. Niedrig, S. F. Wagner, W. Menesklou, and E. Ivers-Tiffée, "Characterization of Nanoscale Surface Modifications of (Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})O_{3-δ} Thin Films Made by a MOD Method", poster presentation at the 19th International Conference on Solid State Ionics (SSI-19), Kyoto/Japan, June 2013.


• M. Meffert, P. Müller, H. Störmer, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Electron microscopy study of surface-functionalized Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-δ} membranes for oxygen separation", poster presentation at the 15th European Microscopy Congress, Manchester/UK, September 2012.

• M. Meffert, P. Müller, H. Störmer, C. Niedrig, S. F. Wagner, and E. Ivers-Tiffée, "Analysis of co-doped (Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})_{0.97}X_{0.03}O_{3-δ} (BSCFX5582, X=Zr, Y, Sc) by Electron Microscopy", poster presentation at the International Conference on Inorganic Membranes (ICIM-2012), Enschede/The Netherlands, July 2012.


P. Müller, M. Meffert, H. Störmer, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Electron Microscopy investigations of zirconium-, yttrium- and scandium-doped (Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})_{0.97}X_{0.03}O_{3-δ} (BSCFX5582)", oral presentation at Electroceramics-XIII, Enschede/The Netherlands, June 2012.

C. Niedrig, P. Müller, W. Menesklou, S. F. Wagner, H. Störmer, D. Gerthsen, and E. Ivers-Tiffée, "Enhanced Oxygen Surface Exchange in Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-δ}", poster presentation at Electroceramics-XIII, Enschede/The Netherlands, June 2012.


P. Müller, H. Störmer, L. Dieterle, C. Niedrig, S. F. Wagner, D. Gerthsen, and E. Ivers-Tiffée, "Determination of the Phase Composition in Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3-δ} by means of Electron Microscopy", oral presentation, 18th International Conference on Solid State Ionics (SSI-18), Warsaw/Poland, July 2011.


P. Müller, L. Dieterle, E. Müller, H. Störmer, D. Gerthsen, C. Niedrig, S. Taufall, S. F. Wagner, and E. Ivers-Tiffée, "Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$ for Oxygen Separation Membranes", oral presentation, *217th Meeting of The Electrochemical Society (ECS)*, Vancouver/Canada, April 2010.

C. Niedrig, M. Burriel, S. Taufall, S. F. Wagner, P. Müller, H. Störmer, D. Gerthsen, and E. Ivers-Tiffée, "Transport Properties and Stability Issues of Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$ (BSCF)", oral presentation, *4th International Conference on Electroceramics (ICE-2009)*, New Delhi/India, December 2009.

M. Burriel, C. Niedrig, S. Baumann, S. F. Wagner, and E. Ivers-Tiffée, "Electrical and Oxygen Transport Properties of Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$", oral presentation, *E-MRS Fall Meeting 2009*, Warsaw/Poland, September 2009.

P. Müller, H. Störmer, D. Gerthsen, J. Santiso, J. Roqueta, M. Burriel, C. Niedrig, S. F. Wagner, and E. Ivers-Tiffée, "TEM investigations of mixed ionic/electronic conducting Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$ materials", poster presentation, *Microscopy Conference 2009*, Graz/Austria, September 2009.

P. Müller, H. Störmer, M. Burriel, C. Niedrig, S. F. Wagner, E. Ivers-Tiffée, and D. Gerthsen, "Microstructural and Electrochemical Properties of Mixed Ionic/Electronic Conducting (MIEC) Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$ (BSCF) Perovskite Materials", poster presentation, *11th International Fischer Symposium on "Microscopy in Electrochemistry"*, Benediktbeuern/Germany, July 2009.

C. Niedrig, M. Burriel López, S. F. Wagner, W. Menesklou, and E. Ivers-Tiffée, "Electrochemical Behaviour of Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$ Thin Films", oral presentation, *17th International Conference on Solid State Ionics (SSI-17)*, Toronto/Canada, June/July 2009.

M. Burriel, C. Niedrig, S. F. Wagner, W. Menesklou, and E. Ivers-Tiffée, "A study of the electrochemical properties of Ba$_{0.5}$Sr$_{0.5}$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$", oral presentation, *MRS Fall Meeting 2008*, Boston MA/USA, December 2008.