CV for Associate Professor **Reidar Haugsrud,**
University of Oslo**,** Dept. of Chemistry**,** FERMiO
Gaustadalleen 21, 0349 Oslo, NORWAY
Born 1970, Norway, Cohabitant, Mona Kværnæs, 3 Children

Associate Professor Dept. Chemistry, FERMiO (2008-)
Research Scientist, Centre for Materials Science and Nanotechnology, UiO (2003-2008)
Post doc, Centre for Materials Science, UiO (2000-2002)
Research Scientist, SINTEF Materials Technology (1999-2000)
Dr.Scient, Materials Science/Inorganic Chemistry, Department of Chemistry, UiO (1999)
Research Scientist, Centre for Materials Science, UiO (1995)
Cand.Scient, Materials Science/Inorganic Chemistry, Department of Chemistry, UiO (1995)

Main Scientific activities: Dr. Reidar Haugsrud, has undertaken research within high-temperature solid-state sciences since 1996. In the period 1996-2001 Haugsrud explored complex corrosion mechanism for metals and single and multi-phase alloys under different reaction conditions. From 2002, Haugsrud has been developing mixed ionic electronic conductors for hydrogen separation (proton conductors) and ionic conductors for high temperature fuel cells.

Within the end of 2008 Haugsrud will have published/submitted ~50 papers in international peer reviewed journals within solid-state chemistry, and given a number of contributions at national and international conferences and meetings: Invited keynotes include: 2006 MRS Fall meeting, Boston (Nov. 2006), Marie Cürie Actions - New Materials for Membranes (June 2007), SSI-16 Shanghai (July 2007), 9. Jülicher Werkstoffsymposium, Gas Separation Membranes for Zero-emission Fossil Power Plants (Nov 2007), 14th Symposium on Solid State Proton Conductors (SSPC-14) Kyoto Japan (Sept 2008). He, furthermore, co-holds one patent within high-temperature proton conductors. Haugsrud is referee for high-ranking international scientific journals in fields of high-temperature solid-state sciences including e.g. J. Electrochem. Soc., Oxid. Met., Corr. Sci., Surf. Coat. Techn., Mat. Sci. Eng., J. Am. Ceram. Soc.., Solid State Ionics, Mater Chem. Etc.

Haugsrud co-supervises presently 9 PhD Students and 8 Master Students.

First-author publications last ~5 years

22. R. Haugsrud, O. Nilsen, A.E. Gunnæs, *Oxid. Met.*, **59** (2003) 215« High-Temperature Oxidation of La_2O_3 coated Ni by ALCVD »
26. R. Haugsrud Proceedings-Electrochemical Society (2003) **PV 2003-16**, p. 200 «A Mass Spectrometry-Based study on the Effects of H_2 and H_2O on the High-Temperature Oxidation of Ti»
28. R. Haugsrud, Y. Larring, T. Norby, *Solid State Ionics* **176** (2005) 2957«Proton Conductivity of Ca-doped Tb_2O_3
29. R. Haugsrud and T. Norby, Proc. Risø International Conf. on Solid State Electrochemistry, 2005 p. 209 «Mixed Ionic-Electronic Conductivity in Ca doped $La_2Ti_2O_7$»
30. R. Haugsrud, K.L. Lee, *Mater. Sci. Eng. A*, **396** (2005) 87 «Oxidation Behaviour of Copper-Chromium In-Situ Composite»
31. R. Haugsrud, T. Norby, *Nature Materials* **5** (2006) 193 «Proton conduction in rare-earth ortho-niobates and ortho tantalates»
33. R. Haugsrud, B. Ballesteros, M. Lira-Cantú and T. Norby, *J. Electrochem.* **153** (2006) J87 «On the Ionic and Electronic Conductivity of Ca-doped $GdNbO_4$»
34. R. Haugsrud and T. Norby, *Solid State Ionics* **177** (2006) 1129«Proton Conductivity in Acceptor doped $LaNbO_4$»
35. R. Haugsrud and T. Norby Proc ICIM 9, Lillehammer June 25-29, 2006, Eds. R. Bredesen and H. Ræder «On the Mixed Ionic-Electronic Conductivity of Nd_6WO_{12}» p. 566
38. R. Haugsrud, H. Fjeld, K.R. Haug and T. Norby, *J. Electrochem. Soc.* **154** (2007) B77 «Mixed Ionic Electronic Conductivity of Er_6WO_{12}»
40. R. Haugsrud, *Solid State Ionics* **178** (2007) 555«Defects and Transport in Rare-Earth Tungstates, Ln_6WO_{12}»
41. R. Haugsrud and T. Norby, *J. Am. Ceram. Soc.* **90** (2007) 1116 «Proton Conductivity in Acceptor doped $LnTaO_4$»
44. R. Haugsrud, C. Kjølseth, *J. Phys. Chem. Solids*, **69** (2008) 1758 «Effects of protons and acceptor substitution on the electrical conductivity of La_6WO_{12}»