Alexander Fateev - DTU Orbit (29/11/2017)

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Publications:

**A DEVICE AND METHOD FOR MEASURING TAR IN A TAR-ENVIRONMENT**
Clausen, S. & Fateev, A. 31 Aug 2017
Publication: Research › Patent – Annual report year: 2017

**High-resolution absorption measurements of NH₃ at high temperatures: 2100–5500 cm⁻¹**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Measurements of NOx precursor concentration profile above the bed at a full scale W-t-E plant and the effect of precursor speciation on the NOx formation**
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

**Direct and inverse problems of infrared tomography**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**ExoMol molecular line lists - XIV. The rotation-vibration spectrum of hot SO₂**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**ExoMol molecular line lists - XVII. The rotation-vibration spectrum of hot SO₃**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**High temperature and high pressure gas cell for quantitative spectroscopic measurements**
Christiansen, C., Stolberg-Rohr, T., Fateev, A. & Clausen, S. 2016 In : Journal of Quantitative Spectroscopy & Radiative Transfer. 169, p. 96-103
Publication: Research - peer-review › Journal article – Annual report year: 2016

**In-Flame Characterization of a 30 MWth Bio-Dust Flame**
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

**An inverse radiation model for optical determination of temperature and species concentration: Development and validation**
Publication: Research - peer-review › Journal article – Annual report year: 2014

**A Scientific Basis for the Development of the Next Generation of Biodust Burners**
High-resolution spectroscopy of gases for industrial applications
Fateev, A. & Clausen, S. 2012
Publication: Research › Poster – Annual report year: 2012

High-resolution spectroscopy of gases for industrial applications
Fateev, A. & Clausen, S. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

High-resolution transmission measurements of CO$_2$ at high temperatures for industrial applications
Publication: Research - peer-review › Journal article – Annual report year: 2012

Influence of ultrasonic irradiation on ozone generation in a dielectric barrier discharge
Publication: Research - peer-review › Conference article – Annual report year: 2012

Variationally computed ro-vibrational energies of sulphur trioxide
Publication: Research › Poster – Annual report year: 2012

Combustion zone investigation in fuel flexible suspension fired boilers, Experimental
Clausen, S., Fateev, A., Hvid, S. L., Beutler, J. B. & Evseev, V. 2011 Roskilde: Technical University of Denmark, Department of Chemical Engineering. 127 p. (Denmark. Forskningscenter Risoe. Risoe-R; No. 1751(EN)).
Publication: Research › Report – Annual report year: 2012

Investigation of NOx and CO Formation at Ultra-Wet Conditions
Publication: Research › Article in proceedings – Annual report year: 2011

On the development of methods and equipment for 2D-tomography in combustion
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Sulfur trioxide on-line measurement technique for power plants
Fateev, A. & Clausen, S. 2011
Publication: Research › Sound/Visual production (digital) – Annual report year: 2011

Validation of spectral gas radiation models under oxyfuel conditions. Part A: Gas cell experiments
Publication: Research - peer-review › Journal article – Annual report year: 2011

A multichannel spectroscopic system for simultaneous gas temperature measurements from several lines of sight
Evseev, V., Nielsen, K. L., Clausen, S. & Fateev, A. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Biomass co-firing for CO2 management: Full-scale field test
Publication: Research › Article in proceedings – Annual report year: 2011
Gas Temperature Measurements with High Temporal Resolution
Fateev, A. & Evseev, V. 2010
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

IR and UV gas absorption measurements during NOx reduction on an industrial natural gas fired power plant
Publication: Research - peer-review › Journal article – Annual report year: 2010

New IR-UV gas sensor to energy and transport sector
Fateev, A. & Clausen, S. 2010 Roskilde: Danmarks Tekniske Universitet, Risø Nationallaboratoriet for Bæredygtig Energi. 34 p. (Denmark. Forskningscenter Risoe. Risoe-R; No. 1758(EN)).
Publication: Research › Report – Annual report year: 2010

In situ gas temperature measurements by UV-absorption spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2009

NO reduction in the flue gas reaction with N2- and ammonia-derived radicals
Publication: Research - peer-review › Book chapter – Annual report year: 2009

On line non-contact gas analysis on an industrial scale
Fateev, A. & Evseev, V. 2009
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

Full-scale boiler measurements demonstrating striated flows during biomass co-firing
Clausen, S. & Fateev, A. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

In Situ Fast UV Gas Absorption Measurements on a Large Scale Boiler
Fateev, A. & Clausen, S. 2008
Publication: Research › Poster – Annual report year: 2008

IR and UV absorption measurements during NOx reduction by plasma-generated ozone in a large scale experiment
Publication: Research › Conference abstract in proceedings – Annual report year: 2008

Novel methods of ozone generation by micro-plasma concept: Final report
Publication: Research › Report – Annual report year: 2008

On-line non-contact gas analysis
Fateev, A. & Clausen, S. 2008 Roskilde: Danmarks Tekniske Universitet, Risø Nationallaboratoriet for Bæredygtig Energi. 22 p. (Denmark. Forskningscenter Risoe. Risoe-R; No. 1636(EN)).
Publication: Research › Report – Annual report year: 2008

In-situ gas temperature measurements by UV-absorption spectroscopy
Fateev, A. & Clausen, S. 2007
Publication: Research › Conference abstract for conference – Annual report year: 2007

Ozone generation by micro-plasma devices: Feasibility study
Emission reduction by means of low temperature plasma. Summary
Publication: Research - peer-review › Report – Annual report year: 2006

Methane conversion by plasma assisted methods
Fateev, A. & Egsgaard, H. 2006
Publication: Research › Conference abstract for conference – Annual report year: 2006

Plasma chemistry in atmospheric pressure dielectric barrier discharges
Publication: Research › Article in proceedings – Annual report year: 2006

Real-time mass spectrometric analysis of plasma
Egsgaard, H. & Fateev, A. 2006
Publication: Research › Conference abstract for conference – Annual report year: 2006

Reduction of NO in the exhaust gas by reaction with N radicals
Publication: Research - peer-review › Journal article – Annual report year: 2006

Reduction of NOx by plasma-assisted methods
Publication: Research › Article in proceedings – Annual report year: 2006

Plasma chemistry in an atmospheric pressure Ar/NH3 dielectric barrier discharge
Publication: Research - peer-review › Journal article – Annual report year: 2005

Production of ammonia-derived radicals in a dielectric barrier discharge and their injection for denitrification
Publication: Research - peer-review › Journal article – Annual report year: 2005

Detection of NH2 and NH in atmospheric pressure Ar/NH3 dielectric barrier discharge
Publication: Research › Article in proceedings – Annual report year: 2004

Plasma chemistry in an atmospheric pressure Ar/NH3 dielectric barrier discharge (oral presentation)
Publication: Research › Article in proceedings – Annual report year: 2004

Production of ammonia radicals in a dielectric barrier discharge and their injection for denitrification
Publication: Research › Conference abstract in proceedings – Annual report year: 2004

Projects:
On-line trace gas measurement technique for gasification
Grosch, H., Fateev, A., Clausen, S., Damø, A. J., Ebert, V. & Neubauer, Y.
01/12/2011 → 25/03/2015
Project: PhD

Optical Tomography in Combustion
01/04/2009 → 21/05/2013
Project: PhD

Activities:

IR (og UV) målemetoder
Fateev, A. (Speaker)
28 Oct 2010
Activity: Other