

List of publication Klas Engvall

V. Nemanova, A. Abedini, T. Liliedahl and K. Engvall, “Co-gasification of petroleum coke and biomass”, *Fuel*, 117 (2014) 870–875.

2013

M. Gołda, M. Brzywczy-Włoch, M. Faryna, K. Engvall and A. Kotarba, “Oxygen plasma functionalization of parylene C coating for implants surface: Nanotopography and active sites for drug anchoring Original Research Article”, *Materials Science and Engineering: C*, 33(7) (2013) 4221-4227

M. Ahmadi, H. Knoef, B. Van de Beld, T. Liliedahl and K. Engvall, “Development of a PID based on-line tar measurement method – Proof of concept”, *Fuel*, 113 (2013) 113-121.

M. Ahmadi, E.E. Svensson and K. Engvall, “Application of Solid-Phase Microextraction (SPME) as a Tar Sampling Method”, *Energy & Fuels*, 27 (7) (2013) 3853–3860

K. Engvall, T. Liliedahl and Erik Dahlquist, “Biomass and Black Liquor Gasification”, chapter 6 in CRC book “Technologies for Converting Biomass to Useful Energy: Combustion, Gasification, Pyrolysis, Torrefaction and Fermentation Sustainable Energy Developments”, ed. E. Dahlquist, ISBN 9780415620888, April 2013.

M. Gołda, K. Engvall, M. Hakkarainen, N. Aminlashgari, M. Brzywczy-Włoch and A. Kotarba, “Parylene C protective coating with controlled drug delivery: fabrication, characterization and evaluation for bone fixation implants applications”, Oral presentation at 5th International Conference on Mechanics of Biomaterials and Tissues (ICMOBT), 8-12 December 2013, , Sitges, Spain.

E. Dahlquist, G. Mirmoshtaghi, E. K. Larsson, E. Thorin, J. Yan, K. Engvall, T. Liliedahl, Changqing Dong and Xiaoying Hu, Qiang Lu, “Modelling and simulation of biomass conversion processes”, Paper in the proceedings of 8th EUROSIM Congress on Modelling and Simulation, EUROSIM2013, Sept 10-13 2013 Cardiff, UK.

P. Haghghi Moud and K.Engvall, “Gas phase alkali interaction with tar reforming catalyst and tar cracking in biomass gasification”. Poster at TCbiomass2013 The International Conference on Thermochemical Conversion Science, 3-6 September 2013, Chicago, US.

C. Rosén, M. Lundgren and K. Engvall, Pressurized steam-oxygen gasification of biomass in BFB using dolomite as bed material. Poster at TCbiomass2013 The International Conference on Thermochemical Conversion Science, 3-6 September 2013, Chicago, US.

L.N. Samuelsson, K. Engvall and R. Moriana, A New Methodology to Model the Kinetics of Torrefaction. Oral presentation at TCbiomass2013 The International Conference on Thermochemical Conversion Science, 3-6 September 2013, Chicago, US.

L.N. Samuelsson, K. Engvall and R. Moriana,, State of the art study of cellulose pyrolysis kinetics. Poster at CEEC-TAC2, 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August 2013, Vilnius, Lithuania.

A.V. González, J. Rostrup-Nielsen, K. Engvall, L. J. Pettersson, “Full-scale hydrogen generation for transport applications: Aged catalysts characterization”. Oral presentation at 11th European Congress on Catalysis – EuropaCat-XI, Lyon, France, September 1st-6th, 2013

E. Robert, R. Imani Jajarmi, J.B. Pettersson, K. Engvall, Acoustic separation of sub-micron particles in gases. Proceedings of Meetings on Acoustics, Vol. 19, 045020 (2013), ICA 2013, Montreal, Canada, 2 - 7 June 2013.

E. Robert, R. Imani Jajarmi, M. Steibel, and K. Engvall, “Acoustophoresis in gases: Effect of turbulence and geometrical parameters on separation efficiency”. Oral presentation at International Conference on Multiphase Flow 2013, Jeju, South Korea, 26-31 May.

E. Robert, R. Imani Jajarmi, M. Steibel, and K. Engvall, "Acoustophoresis in gases: Effect of turbulence and geometrical parameters on separation efficiency". Oral presentation at International Conference on Multiphase Flow 2013, Jeju, South Korea, 26-31 May.

A.V. González, L. Arkatova and K. Engvall, "Ni₃Al intermetallites for biomass-derived tar reforming", Poster at the 23rd North American Meeting of the Catalysis Society, which will be held on June 2 - 7, 2013 at the Galt House Hotel in Louisville, Kentucky, US.

L.J. Pettersson and K. Engvall, "Efficient Chemical Processing of Biomass and Waste – Research at KTH Chemical Technology". Invited lecture at Process Chemistry Center Winter Colloquium, Åbo Akademi University, Turku, Finland, 13 February, 2013.

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M. Cieřlik, S. Zimowski, M. Gołda, K. Engvall, J. Pan, W. Rakowski, A. Kotarba, "Engineering of Bone Fixation Metal Implants Biointerface – Application of Parylene C as a Protective Coating", *Materials Science and Engineering C*, 32 (2012) 2431–2435.

V. Nemanova, K. Engvall, "Development and Optimisation of Biomass Gasification at KTH" International Workshop X <<Energy, Environment and Sustainable Development>> CUBASOLAR, Santiago de Cuba, Cuba, 23-27 April 2012

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