

Dieter Rauch defended his doctoral thesis

Congratulations!

Mr. Dieter Rauch defended his doctoral thesis about “Microwave-based Characterization of the Ammonia Loading of SCR Catalysts Materials” (German original title “Mikrowellengestützte Untersuchung des NH_3 -Speicherverhaltens von SCR-Katalysatormaterialien”) on December 21st, 2016.

The research work for his dissertation was conducted at the Department of Functional Materials in the framework of the project “Korrelation der breitbandigen elektrischen und katalytischen Eigenschaften zeolithischer NH_3 /SCR-Katalysatormaterialien“, a joint project between the Department of Functional Materials at the University of Bayreuth and the Institute of Inorganic Chemistry (IAC) at RWTH Aachen University. It was funded by the German Research Foundation (DFG). Dr. Rauch received also funding from Ford Motor Company in Dearborn, MI, USA.

Dr. Rauch already published parts of his thesis. Two examples out of several are:

D. Rauch, D. Kubinski, G. Cavataio, D. Upadhyay, R. Moos: Ammonia Loading Detection of Zeolite SCR Catalysts using a Radio Frequency based Method, *SAE International Journal of Engines*, **8**, 1126-1135 (2015), doi: 10.4271/2015-01-0986

D. Rauch, D. Kubinski, U. Simon, R. Moos: Detection of the ammonia loading of a Cu Chabazite SCR catalyst by a radio frequency-based method, *Sensors and Actuators B: Chemical*, **205**, 88-93 (2014), doi: 10.1016/j.snb.2014.08.019



From left to right: Prof. Jess, Prof. Simon (RWTH Aachen), Dr. Rauch, Prof. Moos, Prof. Glatzel

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