

Chemical Technology – Publications / Chemische Technik Publikationen

2024

O. Furst, O. Deutschmann Development and calibration of a fast flow model for solid oxide cell stack internal manifolds. *Journal of Power Sources*, accepted 4.6.2024

L. Wehrle, A. Ashar, O. Deutschmann, R.J Braun. Evaluating high power density, direct-ammonia SOFC stacks for decarbonizing heavy-duty transportation applications. *Appl. Energy*, accepted 3.6.2024

C. Kuhn, M. Kirn, S. Tischer, O. Deutschmann. Micron-sized iron particles as energy carrier: Cycling experiments in a fixed-bed reactor. *Proceedings of the Combustion Institute (2024)*, accepted for publication.

C. Kuhn, A. Knapp, M.P. Deutschmann, J. Spielmann, S. Tischer, U.I. Kramm, H. Nirschl, O. Deutschmann. Iron as recyclable metal fuel: Unraveling oxidation behavior and cyclization effects through thermogravimetric analysis, wide-angle X-ray scattering and Mössbauer spectroscopy. *ChemSusChem (2024)* accepted 3.5.2024

C. Kuhn, A. Knapp, M.P. Deutschmann, J. Spielmann, S. Tischer, U.I. Kramm, H. Nirschl, O. Deutschmann. Iron as recyclable metal fuel: Unraveling oxidation behavior and cyclization effects through thermogravimetric analysis, wide-angle X-ray scattering and Mössbauer spectroscopy. *ChemSusChem (2024)* accepted 3.5.2024

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P. Lott, K. Schäfer, O. Deutschmann, M. Werner, P. Weinmann, L. Zimmermann, H. Toebben. Reducing emissions from lean-burn hydrogen combustion engines using a state-of-the-art oxidation catalyst and a VWTi-based SCR catalyst: Potentials and challenges. *SAE Technical Paper (2024)* 2024-01-2634.

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