

Process Intensification of the Propane Dehydrogenation considering Coke Formation, Catalyst Deactivation and Regeneration - Transient Modelling and Analysis of a Heat-integrated Membrane Reactor

Jan P. Walter ^{1,*}, Andreas Brune ^{1,2}, Andreas Seidel-Morgenstern ^{1,3} and Christof Hamel ^{1,2}

¹ Otto von Guericke University Magdeburg, Institute of Process Engineering, Universitätsplatz 2, 39106 Magdeburg, Germany; andreas.brune@ovgu.de (A.B.); aseidel@ovgu.de (A.S.-M.); christof.hamel@hs-anhalt.de (C.H.)

² Anhalt University of Applied Sciences, Process Engineering, Bernburger Straße 55, 06354, Köthen, Germany

³ Max Planck Institute for Dynamics of Complex Technical Systems, Sandtorstraße 1, 39106, Magdeburg, Germany

* Correspondence: jan.walter@ovgu.de

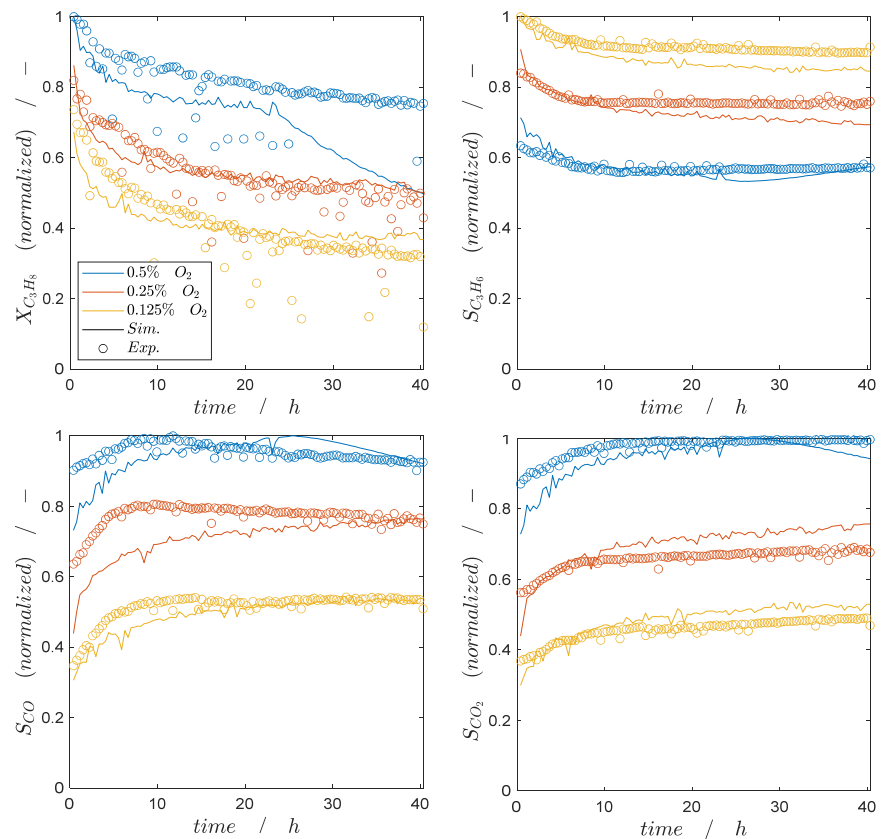


Figure S1. Normalized experimental data and model results.