

Veröffentlichungen

14. Guba, F.; **Ziegenbalg, D.**: Rapid Prototyping of Photoreactors, *in preparation*, **2016**.
13. Hermann, P.; Cents, T.; Klemm, E.; **Ziegenbalg, D.**: Kinetics of the Ethoxylation of Octanol under Supercritical Conditions, *in preparation*, **2016**.
12. Hermann, P.; Timmermann, J.; Hoffmann, M.; Schlüter, M.; Löb, P.; **Ziegenbalg, D.**: Optimizing Split and Recombine Mixers, *to be submitted*, **2016**.
11. Wriedt, B.; **Ziegenbalg, D.**: An Adapted Method of Ferrioxalate Actinometry, *to be submitted*, **2016**.
10. Sender, M.; **Ziegenbalg, D.**: Light Sources for Photochemical Processes – Estimation of Technological Potentials, *Chemie Ingenieur Technik*; *submitted*, **2016**.
9. Tastan, U.; Guba, F.; **Ziegenbalg, D.**: Photochemical Reactions as Switchable Tool for Mass Transfer Investigations, *Chemical Engineering & Technology*; *submitted*, **2016**.
8. Hermann, P. D.; Cents, T.; Klemm, E.; **Ziegenbalg, D.**: Simulation Study of the Ethoxylation of Octanol in a Microstructured Reactor, *Industrial & Engineering Chemistry Research*, **2016**, DOI: 10.1021/acs.iecr.6b04110.
7. Ümit Taştan; **Ziegenbalg, D.**: Getting the Most out of Solar Irradiation: Efficient Use of Polychromatic Light for Water Splitting, *Chemistry - A European Journal*, **2016**, DOI: 10.1002/chem.201602709.
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3. Al-Rawashdeh, M.; Cantu-Perez, A.; **Ziegenbalg, D.**; Löb, P.; Gavriilidis, A.; Hessel, V.; Schönfeld, F.: Microstructure-based intensification of a falling film microreactor through optimal film setting with realistic profiles and in-channel induced mixing, *Chem. Eng. J.*, **2012**, 179, 318–329, DOI: 10.1016/j.cej.2011.11.014.
2. **Ziegenbalg, D.**; Kompter, C.; Schönfeld, F.; Kralisch, D.: Evaluation of different micromixers by CFD simulations for the anionic polymerisation of styrene, *Green. Process. Synth.*, **2012**, 1 (2), 211–214, DOI: 10.1515/gps-2012-0004.
1. **Ziegenbalg, D.**; Löb, P.; Al-Rawashdeh, M.; Kralisch, D.; Hessel, V.; Schönfeld, F.: Use of „smart“ interfaces to improve the liquid-sided mass transport in a falling film microreactor, *Chem. Eng. Sci.*, **2010**, 65 (11), 3557–3566, DOI: 10.1016/j.ces.2010.02.039.

Konferenzbeiträge – Vorträge

15. **Ziegenbalg, D.; Tastan, U.; Wriedt, B.; Machinek, M.; Guba, F.:** Reaction Engineering of Photoreactions – Aspects to be Considered and Possible Benefits, *24th International Symposium on Chemical Reaction Engineering*, **2016**.
14. **Ziegenbalg, D.; Tastan, U.; Wriedt, B.; Machinek, M.; Guba, F.:** Photoreaktionen und Reaktionstechnik – Synergie oder Dyssynergie?, *Jahrestagung Reaktionstechnik*, **2016**.
13. **Ziegenbalg, D.; Tastan, Ü.:** Rapid prototyping for fast and easy optimization of microstructured photoreactors, *ACHEMA*, **2015**.
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11. **Ziegenbalg, D.:** Mikrostrukturierte Photoreaktoren – Lösung für die reaktionstechnischen Ansprüche von Photoreaktionen?, *Jahrestagung Reaktionstechnik*, **2014**.
10. **Ziegenbalg, D.; Tastan, Ü.:** Reaction engineering review on microstructured photoreactors, *24. Lecture Conference on Photochemistry*, **2014**.
9. **Ziegenbalg, D.; Tastan, Ü.:** Microstructured Photoreactors – Answer to the Reaction Engineering Demands of Photoreactions? – Do we Speak the Same Language?, *International Conferences on Microreaction Technology 13*, **2014**.
8. **Ziegenbalg, D.; Tastan, Ümit.:** Microstructured Photoreactors – Answer to the Reaction Engineering Demands of Photoreactions? – Do we Speak the Same Language?, *Lecture Conference on Photochemistry*, **2014**.
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9. Hermann, P.; Rupp, M.; Cents, T.; Klemm, E.; **Ziegenbalg, D.**: Ethoxlation of Octanol – Process Modeling using CFD, *European Symposium on Chemical Reaction Engineering*, **2015**.
8. Tastan, Ümit.; **Ziegenbalg, D.**: A new Reactor Concept for Efficient Use of Polychromatic Light, *European Symposium on Chemical Reaction Engineering*, **2015**.
7. **Ziegenbalg, D.**; Kreisel, G.; Kralisch, D.: Photon Balance of a Photomicroreactor - Fundament for an Optimized Reactor Design, *9th European Congress of Chemical Engineering*, **2013**.
6. **Ziegenbalg, D.**; Löb, P.; Hessel, V.; Schlüter, M.; Hoffmann, M.: Optimization of a Split-And-Recombine Micromixer by Utilization of Dean-Vortices, *International Conferences on Microreaction Technology 12*, **2012**.
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