

## Ausgewählte Publikationen zum Forschungsschwerpunkt

### Drehrohrröfen / Rotary Kilns

Karali, M.; Specht, E.; Herz, F.; Mellmann, J.:

Unloading characteristics of flights in a flighted rotary drum operated at optimum loading. Powder Technology, 333 (2018), 347-352.

Wu, W.; Liu, X.; Hu, Z.; Herz, F.; Specht, E.:

Measurement of the local material depth in a directly heated pilot rotary kiln based on temperature fields.

Powder Technology, 330 (2018), 12-18.

Herz, F.; Specht, E.: Simulation of lime burning in rotary kilns.

Cement International 3 (2017) Vol. 15, 40-49.

Karali, M.A.; Specht, E.; Herz, F.; Mellmann, J.:

Different camera and light positions to facilitate image analysis processing in rotary drums studies.

Powder Technology 306 (2017) 55-60.

Liu, X.; Hu, Z.; Wu, W.; Zhan, J.; Herz, F.; Specht, E.:

DEM study on the surface mixing and whole mixing of granular materials in rotary drums.

Powder Technology 315 (2017) 438-444.

Nafsun, A.I. Herz, F.; Specht, E.; Komossa, H.; Wirtz, S.; Scherer, V.; Liu, X.:

Thermal Bed Mixing in Rotary Drums for Different operational Parameters.

Chemical Engineering Science 160 (2017) 346-353.

Liu, X.; Xuekui X.; Weining, W.; Herz, F.; Specht, E.:

A simplified model to calculate the power draw for material movement in industrial rotary kilns.

Powder Technology 301 (2016) 1294-1298.

Elattar, H.; Specht, E.; Fouda, A. Bin-Mahfouz, A.S.:

Study of Parameters Influencing Fluid Flow and Wall Hot Spots in Rotary Kilns using CFD.

The Canadian Journal of Chemical Engineering Vol. 94 (2016) Feb., 335-367.

Herz, F.; Specht, E.:

Simulation thermischer Prozesse in direkt beheizten Drehrohrröfen – Teil 1 Modellentwicklung.

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Gas Wärme international 6 (2016) 75-81.

Elattar, H. F.; Specht, E.; Fouda, A.; Bin-Mahfouz, A.S.:

CFD modeling using PDF approach for investigating the flame length in rotary kilns.

Heat and Mass Transfer 52 (2016) 2635-2648.

Nafsun, A.I.; Herz, F.; Specht, E.; Scherer, V.; Wirtz, S.:  
Heat Transfer Experiments in a Rotary Drum for a Variety of Granular Materials.  
Experimental Heat Transfer. 29 (2016) 520-535.

Herz, F.; Mitov, I.; Specht, E.; Stanev, R.:  
Influence of the motion behavior on the contact heat transfer between the covered wall and solid bed in rotary kilns.  
Experimental Heat Transfer 28 (2015) 174-188.

Sunkara, K.; Herz, F.; Specht, E.; Mellmann, J.:  
Transverse flow at the flight surface in flighted rotary drum.  
Powder Technology 275 (2015), 161-171.

Karali, M. A.; Sunkara, K.R.; Herz, F.; Specht, E.:  
Experimental analysis of a flighted rotary drum to assess the optimum loading.  
Chemical Engineering Science 138 (2015) 772-779.

Komossa, H.; Wirtz, S.; Scherer, V.; Herz, F.; Specht, E.:  
Heat transfer in indirect heated rotary drums filled with monodisperse spheres: Comparison of experiments with DEM simulations.  
Powder Technology 286 (2015) 722-731.

Stanev, R.; Mitov, I.; Specht, E.; Herz, F.:  
Geometrical characteristics of the solid bed in a rotary kiln.  
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Komossa, H.; Wirtz, S.; Scherer, V.; Herz, F.; Specht, E.:  
Transversal bed motion in rotating drums using spherical particles: Comparison of experiments with DEM simulations. Powder Technology, 264 (2014) 96-104.

Elattar, M.E.; Stanev, R.; Specht, E., Fouda, A.:  
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