Ausgewählte Publikationen zum Forschungsschwerpunkt

Schachtöfen, Kalkbrennen / Shaft Kilns, Lime Calcination

Sandaka, G.; Specht, E.:
Influence of material properties on limestone decomposition.
Cement Lime Gypsum 3 (2018) 52-56.

Hallak, B.; Herz, F.; Specht, E.; Gröpler, R., Warnecke, G.:
Simulation of limestone calcination in normal shaft kilns – Part 3: Influence of particle size distribution and type of limestone.
Int. Journal of Cement Lime Gypsum 3 (2016), 64-68.

Specht, E.; Mohammadpour, K.; Alkhalaf, A.:
Ermittlung der Flammenlänge von gasförmigen Brennstoffen in Schachtöfen.
VDI-Berichte Nr. 267, 2015. VDI Verlag GmbH Düsseldorf, 291-299. (ISBN 978-3-18-092267-6)

Hallak, B.; Specht, E.; Herz, F.; Gröpler, R.; Warnecke, G.:
Simulation of lime calcination in Normal Shaft Kilns – Influence of process parameters.
Int. Journal of Cement Lime Gypsum 10 (2015) 46-50.

Hallak, B.; Herz, F.; Specht, E.; Gröpler, R., Warnecke, G.:
Simulation of limestone calcination in normal shaft kilns – Part 3: Influence of particle size distribution and type of limestone.
Int. Journal of Cement Lime Gypsum 3 (2016), 64-68.

Hallak, B.; Specht, E.; Herz, F.; Gröpler, R.; Warnecke, G.:
Simulation of lime calcination in Normal Shaft Kilns – Mathematical Model.
Int. Journal of Cement Lime Gypsum 9 (2015) 66-71.

Hallak, B.; Herz, F.; Specht, E.; Kehse, G.:
Energy consumption and CO2 content in the flue gas of normal shaft kilns: Part 1 Influence of the excess air number.
Cement, Lime, Gypsum, 11 (2014) 60-66.

Hallak, B.; Herz, F.; Specht, E.; Kehse, G.:
Energy consumption and CO2 content in the flue gas of normal shaft kilns: Part 2: Influence of the limestone quality and the process parameter.
Cement, Lime, Gypsum 12 (2014) 38-41.

Specht, E.; Woche, H.; Hallak, B.:
Zünd- und Abbrandverhalten stückiger Kokse und Anthrazite unter Schachtofenbedingungen.
VDI-Berichte 2119 (25. Deutscher Flammentag), 2011, 95-100.

Cheng, C.; Specht, E.; Kehse, G.:
Influence of origin and material property of limestone upon its decomposition behaviour in shaft kilns.
Cement, Lime, Gypsum 60 (2007) No. 1, 51-61.

Bes, A.; Specht, E.; Kehse, G.:
Calculation of the cooling zone length and the discharge temperature of lime shaft kilns.
Cement, Lime, Gypsum 60 (2007) No. 4, 63-73.

Bes, A.; Specht, E.; Kehse, G.:
Influence of the kind of fuel on the energy consumption in lime burning.
Cement, Lime, Gypsum 60 (2007) 9, 84-93.

Cheng, C.; Specht, E.:
Reaction rate coefficients in decomposition of lumpy limestone of different origin.
Thermochimica Acta 449 (2006) 8-15.

Specht, E.; Kainer, H.; Jeschar, R.:
Reaction, Pore Diffusion and Thermal Conduction Coefficients of Various Magnesites and their Influence on the Decomposition Time.
Radex-Rundschau (1986), 4, 248-268.

Kainer, H.; Specht, E.; Jeschar, R.:
Pore diffusion, reaction and thermal conduction coefficients of various limestones and their influence on decomposition time.
Cement, Lime, Gypsum 39 (1986), 5, 259-268 (deutsch).
Cement, Lime, Gypsum 39 (1986), 7, 214-219 (englisch).