Ausgewählte Publikationen zum Forschungsschwerpunkt

Tunnelöfen / Tunnel Kilns

Refaey, H.; Specht, E.: Flow Field Visualization to Simulate the Burning of Sanitaryware in Tunnel Kilns. Proceedings of ICFD11, Eleventh International conference of fluid Dynamics, December 19-21, 2013, Alexandria, Egypt.

Yu, J.L.; Redemann, T.; Specht, E.: Modeling for Prediction of Porcelain Products Temperature Profiles in a Tunnel Kiln. Advanced Materials Research 968 (2014) 151-155.

Redemann, T.; Specht, E.; Rimpel, E.: Limitations of the use of circulation systems and their influence on the temperature and velocity profile in tunnel kilns. Ziegelindustrie 4 (2015) 35-41.

Refaey, H.A.; Specht, E.; Salem, M.R.: Influence of Fuel Distribution and Heat Transfer on Energy consumption in tunnel Kilns. International Journal of Advances in Engineering & Technology, 8 (2015), 281-293. (ISSN: 22311963).

Becker, F.; Specht, E.: Heat Transfer in Rapid Firing Tunnel Kilns for Glost Firing of Porcelain Flatware. Ceramic Forum International 94 (2017) 6-7, E26-E29.

Al-Hasnawi, A.G.T.; Refaey, H.A.; Redemann, T.; Attalla, M.; Specht, E.: CFD Simulation of Flow Mixing in Tunnel Kilns by Air Side Injection. Journal of Thermal Science and Engineering Applications 10 (3) 2018. doi: 10.1115/1.4038840

Yu, J.L.; Redemann, T.; Specht, E.: Modeling for Prediction of Porcelain Products Temperature Profiles in a Tunnel Kiln. Advanced Materials Research 968 (2014) 151-155.

Meng, P.; Specht, E.; Tretau, A.; Rimpel, E.: The solid-solid-recuperator tunnel kiln for energy conserving firing of facing bricks and roof tiles. Annual for the Brick and Tile, Structural Ceramics and Clay Pipe Industries 2012, 89-100. (Bauverlag).

Hofmann, I.; Tretau, A., Specht, E.: Actuating variables for the tensile strength of drying brick green bodies. Annual for the Brick and Tile, Structural Ceramics and Clay Pipe Industries 2012, 74-88. (Bauverlag)

Specht, E.; Meng, P.; Tretau, A.; Rimpel, E.: The solid-solid recuperator – a forced-convection tunnel kiln for higher energy efficiency. Brick and Tile Industry International (2011) 10-21.

Specht, E.; Meng, P.; Tretau, A.; Rimpel, E.: Der Gegenlauf-Tunnelofen als zukünftiges Konzept zum energiearmen Brennen keramischer Produkte. Keramische Zeitschrift 02 (2011) 98-102.