

钢铁研究学报(英文版)



中国钢研科技集团有限公司
CHINA IRON & STEEL RESEARCH INSTITUTE GROUP

Journal of Iron and Steel Research International

Volume 27 · Number 8 · August 2020

ORIGINAL PAPERS

Influence of initial iron ore particle size on CO₂ gasification behavior and strength of ferro-coke

R.S. Xu · S.L. Deng · H. Zheng · W. Wang · M.M. Song · W. Xu · F.F. Wang 875

Analysis of operational parameters affecting denitrification rate of sintering flue gas in cross-flow activated coke purification facility

W.L. Zhang · S.L. Wu · Z.J. Hu 887

Numerical investigation and optimisation of heat transfer performance in a vertical sinter cooling packed bed using Taguchi and ANOVA methods

J.P. Fu · J.J. Cai 898

Influence of refining process and utilization of different slags on inclusions, titanium yield and total oxygen content of Ti-stabilized 321 stainless steel

X.R. Chen · G.G. Cheng · Y.Y. Hou · J.Y. Li · J.X. Pan 913

Investigation of processing–microstructure–property relationship using hot compression of a cone-shaped specimen

W.H. Huang · P. Zeng · L.P. Lei 922

Effects of annealing temperature on microstructure and properties of tailor-rolled blank of medium-manganese steel

Y. Zhi · D.W. Ke · X.H. Liu · Z.X. Feng 933

Homogeneity analysis of Y-bearing 12Cr ferritic/martensitic steel fabricated by vacuum induction melting and casting

W.W. Guo · X.X. Zhang · Y.X. Chen · Z.Y. Hong · Q.Z. Yan 940

Structure and electrochemical hydrogen storage characteristics of nanocrystalline and amorphous MgNi-type alloy synthesized by mechanical milling

Y.H. Zhang · W. Zhang · Z.M. Yuan · W.G. Bu · Y. Qi · S.H. Guo 952

Effect of specimen gauge reduction on uniaxial tension properties of reinforcing steel

A. Triwiyono · A.L. Han · A. Aryanto · S. Tadjono · B.S. Gan 964

Steel scrap melting model for a dephosphorisation basic oxygen furnace

S. Deng · A.J. Xu 972

Influence of annealing temperatures on microstructure evolution and mechanical properties in a low-carbon steel

Y.H. Jiang · S. Yao · W. Liu · Y. Han · S.P. Liu · G. Tian · A.M. Zhao 981

Microstructure and impact toughness of 16MND5 reactor pressure vessel steel manufactured by electrical additive manufacturing

X.K. He · C.S. Xie · L.J. Xiao · Y. Luo · D. Lu · Z.D. Liu · X.T. Wang 992

Further articles can be found at link.springer.com

Indexed/abstracted in *Current contents (ISI)*, *Index Medicus/Medline*, *Chemical Abstracts*, *Bioscience Information Service (BIOSIS)*, *CAS*, *METADEx*, *INSPEC*, *Science Citation Index*, *Ei Compendex*

Instructions for Authors for *J. Iron Steel Res. Int.* are available at www.springer.com/42243