

Journal of Iron and Steel Research International

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



Springer

Journal of Iron and Steel Research International

Volume 27 · Number 10 · October 2020

ORIGINAL PAPERS

Synthesis, characterization and properties of organically compounded bentonite by molecular intercalation process

S.W. Li · J. Pan · D.Q. Zhu · Z.Q. Guo · J.W. Xu · J.L. Chou 1127

Physical simulation of bubble refinement in bottom blowing process with mechanical agitation

J.M. Su · Z.H. Dou · T.A. Zhang · Y. Liu 1137

Effect of TiO_2 on reduction behavior of Cr_2O_3 in $\text{CaO-SiO}_2\text{-Al}_2\text{O}_3\text{-MgO-TiO}_2\text{-Cr}_2\text{O}_3$ by carbon from Fe-C melt

J.Y. Xiang · G.S. Pei · W. Lv · B.H. Li · G.B. Qiu · X.W. Lv 1145

Factors influencing dissolution of carbonaceous materials in liquid Fe-Mn

H. Kaffash · M. Tangstad 1153

Prediction of maximum carbon element content in continuous casting billets of 82B cord steel based on statistics of extreme values method

D.W. Guo · Z.B. Hou · J.H. Cao · Z.A. Guo · Y. Chang · G.H. Wen 1163

Effect of tempering on bonding characteristics of cross wedge rolling 42CrMo/Q235 laminated shafts

S. Zhu · W.F. Peng · X.D. Shu 1170

Effect of Ti addition on high-temperature oxidation behavior of Co-Ni-based superalloy

Y.X. Zhu · C. Li · Y.C. Liu · Z.Q. Ma · H.Y. Yu 1179

Thermodynamic modeling of Cr-Al-C and Ni-Al-C systems for low-density steels

W.S. Zheng · Y.L. He · X.G. Lu 1190

Effect of dew point on hot-dip galvanizing behavior of a high-manganese TWIP steel for automotive application

T.D. Ren · W. Shi · R.D. Liu · L. Lin · H.G. Yang · L. Li · B. Shahzad 1200

Determination of continuous constitutive relationship of weld zone of high-strength steel rectangular welded tube

H.L. Liu · Y.L. Liu · Z. Yang · K. Wang · M.M. Liu 1212

Cyclic oxidation behavior of NiCoCrAlY/YSZ@Ni composite coatings fabricated by laser cladding

H.Z. Zheng · P.F. Zhou · G.F. Li · P. Peng 1226

Highly improved hydrogen storage dynamics of nanocrystalline and amorphous NdMg_{12} -type alloys by mechanical milling

Y.C. Liu · Y. Qi · W. Zhang · J.L. Gao · Y.H. Zhang 1236

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