



Q K 2 1 4 3 1 6 6

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 28 · Number 10 · October 2021

ORIGINAL PAPERS

Preparation of active coke combining coal with biomass and its denitrification performance

X.H. Zhou · S.F. Zhang · Y.Y. Wei · F. Sher · Y. Li · W.Z. Yu · L.Y. Wen 1203

Influence of basicity on metallurgical performances of fired super high-grade magnetite pellets in hydrogen-rich gases

F. Zhang · D.Q. Zhu · J. Pan · Z.Q. Guo · M.J. Xu 1212

Effect of $w(\text{MgO})/w(\text{Al}_2\text{O}_3)$ ratio and basicity on microstructure and metallurgical properties of blast furnace slag

W.G. Kong · J.H. Liu · Y.W. Yu · X.M. Hou · Z.J. He 1223

Properties of ten-year-aged argon oxygen decarburization stainless steel slag

Y.J. Wang · Y.N. Zeng · J.G. Li · Y.Z. Zhang · W. Wang 1233

Bubble behavior in cylindrical and square vessels under centric mechanical stirring

K. Wang · Y. Liu · M. Sano · T.A. Zhang 1243

Effect of Ce on solute redistribution in liquid ahead of solid-liquid interface during solidification of Fe-4 wt.%Si alloy

Y.P. Ji · M.X. Zhang · Y. Hou · T.X. Zhao · Y.M. Li · H.P. Ren 1251

Effect of Mg addition on temper embrittlement in 2.25Cr-1Mo steel doped with 0.056% P-Mg segregation behavior at grain boundary

X.B. Li · X. Dong · P.X. Zhao · W.W. Xing · L.L. Ding · N.N. Zhang · Y.C. Ma · K. Liu 1259

Relationship between martensite microstructure and ductility of H13 steel from aspect of crystallography

J. Zhu · Z.H. Zhang · J.X. Xie 1268

Precipitation kinetics of carbides during cyclical and isothermal aging of 2.25Cr-1Mo steel and its effect on mechanical properties

M.L. Saucedo-Muñoz 1282

Hot deformation behavior and microstructure evolution of an Fe-30Cr-2Mo ultra-pure super ferritic stainless steel

Y.Y. Zhu · L.K. Ning · T.Z. Xin · E.Z. Liu · J. Tong · Z. Tan · Y.T. Zhou · Z. Zheng 1291

Analysis on hot deformation and following cooling technology of 25Cr2Ni4MoVA steel

J. Yang · Z.H. Su · F.L. Sui 1305

Thermal deformation behavior and microstructure evolution of modified IN617 alloy with different initial states

Q. Li · X.L. Jiang · Z.Z. Chen · Z.D. Liu · L. Zuo 1315

Structure and electrochemical characteristics of Mg-Ti-Ni-based electrode alloys synthesized by mechanical milling

Z.H. Hou · X. Wei · W. Zhang · Z.M. Yuan · H. Yong · Q.L. Ge 1329

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

Journal of Iron and Steel Research International

Volume 28 · Number 10 · October 2021

EDITORIAL COMMITTEE

Honorary Editor-in-Chief

Rui-yu Yin (China)

Editor-in-Chief

Zhi-ling Tian (China)

Associate Editors-in-Chief

Han Dong (China)

Jian-xin Xie (China)

Xing-zhong Zhang (China)

Advisory Board

Hong-nian Cai (China)

Yong Gan (China)

Hai-zhou Wang (China)

Xi-shan Xie (China)

Zeng-yong Zhong (China)

Jing Zhu (China)

Director

Yuan-qi Wang (China)

Deputy Director

Yan-jing Shao (China)

EDITORIAL BOARD

Fujio Abe (Japan)

Visvalingam Balasubramanian (India)

Wolfgang Bleck (Germany)

Geoff Brooks (Australia)

Huan-tang Cai (USA)

Jian-chun Cao (China)

Dao-lun Chen (Canada)

Man-sheng Chu (China)

Yu-wen Cui (Spain)

Chen-hong Deng (China)

Hong-biao Dong (UK)

Jian-xin Dong (China)

Alan P Druschitz (USA)

Si-chen Du (Sweden)

Feng Fang (China)

Zhan-cheng Guo (China)

Ke Han (USA)

Xiao-xu Huang (China)

Qing Jiang (China)

Yong-lin Kang (China)

Hui-jun Li (Australia)

Jin-shan Li (China)

Sheng-li Li (China)

Wei Li (China)

Yong-chang Liu (China)

Hong-ming Long (China)

Xiao-gang Lu (China)

Xiong-gang Lu (China)

Alan A. Luo (USA)

Jia-ming Luo (China)

Zhi-ping Luo (USA)

Xue-wei Lv (China)

Han Ma (China)

Yong-lin Ma (China)

Xin-ping Mao (China)

Hiroyuki Matsuura (Japan)

Devesh Misra (USA)

Zuo-ren Nie (China)

Hiroshi Nogami (Japan)

Fu-sheng Pan (China)

Jun-wei Qiao (China)

Cheng-jia Shang (China)

Il Sohn (Korea)

Chang-jiang Song (China)

Prakash Srirangam (UK)

Kiet Tieu (Australia)

Cong Wang (China)

Fu-hui Wang (China)

Guo-dong Wang (China)

Shu-qi Wang (China)

Wan-lin Wang (China)

Xin-hua Wang (China)

Zhao-dong Wang (China)

Bryan Webler (USA)

Kai-ming Wu (China)

Ying Wu (China)

Zhi-dong Xiang (China)

Qing-yan Xu (China)

Wei Xu (China)

Ke Yang (China)

Zhi-gang Yang (China)

Man Yao (China)

Xiao-qin Zeng (China)

Qi-jie Zhai (China)

Ji Zhang (China)

Jie-yu Zhang (China)

Li-feng Zhang (China)

Yu-zhu Zhang (China)

Ming-yi Zheng (China)

Ke-chao Zhou (China)

Shao-xiong Zhou (China)

Miao-yong Zhu (China)

JOURNAL OF IRON AND STEEL RESEARCH INTERNATIONAL

(Monthly, Started in 1994)

Editor-in-Chief

Administred by

Sponsored by

Edited and Published by

Printed by

Domestic Distribution

Abroad Distribution

Copyright © 2021

Zhi-ling Tian

China Iron and Steel Association

China Iron and Steel Research Institute Group

CISRI Boyuan Publishing Co., Ltd.

No.76 Xueyuan Nanlu, Beijing 100081, China

Beijing Kexin Printing Co., Ltd.

Beijing Newspapers and Periodicals Distribution Bureau

China Post Group (Code: 82-767)

China International Book Trading Corporation (M 1464)

The Editorial Board of

JOURNAL OF IRON AND STEEL RESEARCH INTERNATIONAL

Tel.: +86 10 62182295

Fax: +86 10 62182817

E-mail: gtyjxb-e@163.com

http://www.chinamet.cn

Domestic cost ¥100

Abroad cost \$100

ISSN 1006-706X

CN 11-3678/TF



ISSN 1006-706X

