



Ei Compendex核心期刊
RCCSE中国权威学术期刊

ISSN 1005-3026
CN 21-1344/T
CODEN DDXKEZ

东北大学学报

自然科学版

Vol.42 No.7



JOURNAL OF
NORTHEASTERN UNIVERSITY
NATURAL SCIENCE

ISSN 1005-3026



9 771005 302215

07>

中国·沈阳
Shenyang China

7
2021

万方数据

东北大学学报

自然科学版

Vol.42 No.7

2021-07-15

东北大学学报(自然科学版)

Dongbei Daxue Xuebao (Ziran Kexue Ban)

第 42 卷 第 7 期 (总第 370 期) 2021 年 7 月

目 次

材 料 与 冶 金

- 热芯大压下轧制厚板坯缩孔及表面开裂的数值模拟 李天祥, 李海军, 王昭东, 王国栋(913)
- 700 MPa 级高强度钢水蒸气条件下的高温氧化行为 王 皓, 曹光明, 汤军舰, 刘振宇(920)
- 回火温度对在线淬火 Q690q 桥梁钢显微组织和力学性能的影响 高彩茹, 屈兵兵, 田余东, 杜林秀(927)
- CoCrFeNi 高熵合金组织演变规律及再结晶动力学 毕梦园, 谢仁义, 张艺凡, 衣海龙(933)
- 差温轧制连铸钢坯芯部孔洞压合过程数值模拟 王 斌, 宁新禹, 李方坡, 李海军(939)
- 中间辐射体对加热炉内传热过程影响的数值模拟 姜天驰, 张卫军, 刘 石, 王 鑫(947)

信 息 与 控 制

- 基于特征融合的话务人聚类算法 郑 艳, 姜源祥(952)
- 基于加权因子的双重延时乘累加波束形成算法 鲍喜荣, 历正双, 高浩森, 张 石(960)

机 械 工 程

- 考虑频变特性的约束阻尼结构建模与试验研究 罗 忠, 郭思伟, 于长帅, 何凤霞(966)
- 不锈钢材料预应力磨削表面耐蚀性能数值模拟 侯壮壮, 修世超, 王雨时, 姚云龙(972)
- 熔丝成型薄板表面粗糙度理论模型与实验验证 姜世杰, 胡 科, 陈丕峰, SIYAJEU Yannick(980)

资 源 与 土 木 工 程

- 节理千枚岩能量传递与动力学特性 许江波, 费东阳, 孙浩琿, 崔易仑(986)
- 基于 EPHF 模型均质多孔岩石材料水力压裂特性 李 明, 张砚琨, 赵 岐, 梁 力(996)
- 基于稳定流场的水力旋流器入料口直径设计 崔宝玉, 马聪玉, 沈岩柏, 宋振国(1005)
- 污泥基磁性生物炭及其对水体中铜离子的吸附性能 赵 冰, 张 冉, 徐新阳(1012)
- 大麦虫取食塑料影响因素及肠道功能菌群探究 赵 鑫, 罗丽萍, 王宇萌, 郭鸿钦(1019)
- 寒区隧道衬砌电加热试验研究 王连广, 徐 宵, 李 雪(1025)
- 地面沉降对地下水时空响应及其非工程控沉 贾 超, 张少鹏, 丁朋朋, 吴 静(1032)
- 基于 EPC 模式的安全生产管理系统分析与仿真 齐锡晶, 康伟鑫, 赵 磊(1041)

管 理 科 学

- 董事网络位置对高管薪酬水平影响的实证研究 孙 宸, 庄新田(1049)
- 共享自动驾驶汽车使用意愿模型及其影响因素 霍月英, 郭 晨, 朱 援, 冯晨曦(1057)

JOURNAL OF NORTHEASTERN UNIVERSITY (NATURAL SCIENCE)

Volume 42 Number 7 (Sum 370) July 2021

CONTENTS

Materials & Metallurgy

- Numerical Simulation of Shrinkage Porosities and Surface Cracks of Slab with Hot-Core Heavy Reduction Rolling *LI Tian-xiang, LI Hai-jun, WANG Zhao-dong, WANG Guo-dong*(913)
- High Temperature Oxidation Behavior of 700 MPa Grade High Strength Steel Under Water Vapor Condition *WANG Hao, CAO Guang-ming, TANG Jun-jian, LIU Zhen-yu*(920)
- Effect of Tempering Temperature on Microstructure and Mechanical Properties of On-Line Quenched Q690q Bridge Steel *GAO Cai-ru, QU Bing-bing, TIAN Yu-dong, DU Lin-xiu*(927)
- Microstructure Evolution and Recrystallization Kinetics of CoCrFeNi High Entropy Alloy *BI Meng-yuan, XIE Ren-yi, ZHANG Yi-fan, YI Hai-long*(933)
- Numerical Simulation of Void Closure in the Core of Continuous Casting Steel During Temperature Gradient Rolling Process *WANG Bin, NING Xin-yu, LI Fang-po, LI Hai-jun*(939)
- Numerical Simulation of Influence of Intermediate Radiator on Heat Transfer Process in Heating Furnace *JIANG Tian-chi, ZHANG Wei-jun, LIU Shi, WANG Xin*(947)

Information & Control

- Speaker Clustering Algorithm Based on Feature Fusion *ZHENG Yan, JIANG Yuan-xiang*(952)
- Double Delay Multiplication and Accumulation Beamforming Algorithm Based on Weighting Factor *BAO Xi-rong, LI Zheng-shuang, GAO Hao-sen, ZHANG Shi*(960)

Mechanical Engineering

- Modeling and Experimental Research of Constrained Damping Structure Considering Frequency-Dependent Characteristics *LUO Zhong, GUO Si-wei, YU Chang-shuai, HE Feng-xia*(966)
- Numerical Simulation on Corrosion Resistance of Pre-stress Grinding Surface of Stainless Steel *HOU Zhuang-zhuang, XIU Shi-chao, WANG Yu-shi, YAO Yun-long*(972)
- Theoretical Model and Experimental Verification of Surface Roughness of Fused Filament Fabrication Plates *JIANG Shi-jie, HU Ke, CHEN Pi-feng, SIYAJEU Yannick*(980)

Resources & Civil Engineering

- Energy Transfer and Dynamic Characteristics of Jointed Phyllite *XU Jiang-bo, FEI Dong-yang, SUN Hao-hui, CUI Yi-lun*(986)
- Characteristics of Hydraulic Fracture in Homogeneous Porous Rock Material Based on EPHF Model *LI Ming, ZHANG Yan-kun, ZHAO Qi, LIANG Li*(996)
- Design of Inlet Diameter of Hydrocyclone Based on Stable Flow Field *CUI Bao-yu, MA Cong-yu, SHEN Yan-bai, SONG Zhen-guo*(1005)
- Magnetic Bio-char Derived from Sewage Sludge and Its Adsorption Ability for Cu(II) in Aqueous System *ZHAO Bing, ZHANG Ran, XU Xin-yang*(1012)
- Research on Influencing Factors of Polystyrene Consumption by *Zophobas atratus* Larvae, and Gut Core Functional Microbiome *ZHAO Xin, LUO Li-ping, WANG Yu-meng, GUO Hong-qin*(1019)
- Experimental Study on Electric Heating of Tunnel Lining in Cold Region *WANG Lian-guang, XU Xiao, LI Xue*(1025)
- Temporal-Spatial Response of Land Subsidence to Groundwater and Its Non-engineering Subsidence Control *JIA Chao, ZHANG Shao-peng, DING Peng-peng, WU Jing*(1032)
- Analysis and Simulation of Safety Production Management System Based on EPC Mode *QI Xi-jing, KANG Wei-xin, ZHAO Lei*(1041)

Management Science

- Empirical Study on Influence of Directors' Network Position on Executive Compensation *SUN Chen, ZHUANG Xin-tian*(1049)
- Use Intention Model of Shared Autonomous Vehicles and Its Impact Factors *HUO Yue-ying, GUO Chen, ZHU Yuan, FENG Chen-xi*(1057)