

EI Compendex

Scopus

CA

中文核心期刊要目总览(2011年版)

中国科技论文统计源期刊(中国科技核心期刊)

中国核心期刊(遴选)数据库

中国学术期刊文摘(中、英文版)源期刊

中国科技论文与引文数据库(CSTPCD)

中国科学引文数据库(CSCD)来源期刊

中国学术期刊综合评价数据库(CAJCED)

中国期刊全文数据库(CJFD)

中文科技期刊数据库

CEPS中文电子期刊全文数据库

RCCSE中国权威学术期刊

ISSN 1007-9629

CN 31-1764/TU

CODEN JCXUFN

建筑
材
料
学
报

建筑材料学报

JOURNAL OF
BUILDING
MATERIALS

Vol. 24
6
2021

同济大学

Tongji University

建筑材料学报

1998年创刊

总第 130 期

第 24 卷 第 6 期 2021 年 12 月

目 次

羟丙基甲基纤维素对 3D 打印砂浆性能的影响	朱艳梅	张冀	蒋正武(1123)
不同镁硅摩尔比下水化硅酸镁凝胶的微观结构		肖建敏	胡亚茹(1131)
高性能水泥基复合材料断裂性能	徐文磊	宣卫红	陈育志(1139)
不同密度等级泡沫混凝土的单轴压缩破坏特征	李升涛	陈徐东	程熙媛(1146)
基于图像统计的带预制缺陷混凝土破坏机理	孙浩凯	高阳	董文(1154)
不同养护温度下蒸养混凝土断裂性能研究	娄本星	胡少伟	郑新雨(1163)
冻融循环作用下 BSFC 的抗冻性及损伤模型		范向前	王亚民(1169)
基于 CT 技术的掺锂渣再生混凝土孔隙结构特征	陈洁静	秦拥军	马芹永(1169)
基于 Abaqus 模拟分层仿生梁的弯曲性能	余江滔	崔璨	肖建庄(1179)
氨基酸改性耐泥聚羧酸减水剂的制备及其作用机理	高育欣	杨文	卢义(1179)
环氧树脂修复水泥基材料微裂缝的渗透机理	王信刚	周镇	张江顿(1187)
锈蚀钢绞线与混凝土的黏结性能		赵华	曾超(1193)
锈蚀钢绞线与混凝土的黏结性能	刘云雁		王福涛(1200)
黏附砂浆含量对再生混凝土抗氯离子侵蚀性能影响	陈春红	刘荣桂	李玉洁(1200)
不同地聚物砂浆抗硫酸盐侵蚀性能及其机理分析	郑毅	王爱国	李秋超(1208)
硅藻土/泥炭藓基负载 g-C ₃ N ₄ -TiO ₂ 的光催化调湿性能	胡明玉	周侠	范颖芳(1216)
橡胶-粉土轻质混合土击实及动变形特性研究	周恩全	张蒋浩	朱平华(1224)
沥青混合料高温性能评价指标区分度研究		崔磊	臧旭航(1224)
木焦油基再生沥青低温性能评价及其作用机理分析	刘崇麟	蒋康	王星尧(1224)
伊朗岩沥青改性沥青的微观特性及性能	金鑫	郭乃胜	赵丽娜(1234)
热老化下沥青胶浆微观结构及自愈合性能评价		孙思威	宗之鑫(1242)
长期荷载作用对钢-竹组合梁力学性能影响	茅鸣	童科挺	陆建飞(1242)
开孔 Q460 高强钢在大应变循环拉伸下的力学性能	张家亮		杨彦海(1248)
开孔 Q460 高强钢在大应变循环拉伸下的力学性能	罗文伟	王迪(1255)	刘克非(1255)
		吴超凡	尤占平(1265)
		周军	赵琳(1271)
		王建民	李玉顺(1280)
		李海锋	曹宝安(1291)

工程应用

建筑外墙外保温做法对结构安全性影响分析	刘玉章	张君	王家赫(1300)
定向钢纤维增强地质聚合物复合梁的抗弯性能		张伟杰	么传杰(1300)
交变荷载和氯盐环境耦合作用下钢绞线的腐蚀特征及力学性能	喻宣瑞	姚国文	谢子令(1307)
		钟浩	周华飞(1307)
			蒋一星(1315)

研究简报

海水拌制珊瑚混凝土中不锈钢钢筋的锈蚀速率	冯兴国	卢潇	卢向雨(1322)
连续 RAFT 光聚合法合成聚羧酸减水剂	彭荩影	钱珊珊	杨雅师(1322)
生物基稳定剂对 SBS 改性沥青性能的影响	耿立涛	刘悦	王子明(1328)
基于表面能的氧化石墨烯改性沥青黏附性	赵艳	李波	韩洪超(1335)
基于响应面法的聚丙烯高强土工格室拉伸性能	张冰冰	刘杰	张哲(1341)
		阿肯江·托呼提	杨娟(1341)
		王斌	李志伟(1348)
		陈石	郑春扬(1348)

(第 24 卷 卷终)

JOURNAL OF BUILDING MATERIALS

Started in 1998

Series No. 130

Vol. 24 No. 6 Dec. 2021

Contents

- Effect of Hydroxypropyl Methylcellulose Ether on Properties of 3D Printing Mortar *ZHU Yanmei, ZHANG Yi, JIANG Zhengwu* (1123)
Microstructure of Magnesium Silicate Hydrates in Different Mg/Si Molar Ratios *XIAO Jianmin, HU Yaru* (1131)
Fracture Performance of High-Performance Cement-Based Composites *XU Wenlei, XUAN Weihong, CHEN Yuzhi, CHEN Xudong, CHENG Xiyuan* (1139)
Failure Characteristics of Foam Concrete with Different Density under Uniaxial Compression *LI Shengtao, CHEN Xudong, ZHANG Jinhua, DONG Wen* (1146)
Failure Mechanism of Precast Defective Concrete Based on Image Statistics *SUN Haokai, GAO Yang, ZHENG Xinyu, CHEN Yibo* (1154)
Fracture Properties of Steam-Cured Concrete under Different Curing Temperatures *LOU Benxing, HU Shaowei, FAN Xiangqian, YE Yuxiao, WANG Yamin* (1163)
Frost Resistance and Damage Model of BSFC under Freeze-Thaw Cycles *WU Qianyun, MA Qinyong* (1169)
Pore Structure Characteristics of Recycled Concrete with Lithium Slag Based on CT Technology *CHEN Jiejing, QIN Yongjun, XIAO Jianzhuang, LU Yi* (1179)
Simulation of Bending Behavior of Bio-inspired Stacked Beams Based on Abaqus *YU Jiangtao, CUI Can, YE Junhong, ZHANG Jiangdi* (1187)
Preparation and Mechanism of Amino Acid Modified Clay Resistant Polycarboxylate Superplasticizers *GAO Yuxin, YANG Wen, LIU Ming, ZENG Chao, WANG Futao* (1193)
Capillary Transport Mechanism of Epoxy Resin Repairing Micro-cracks in Cement-Based Materials *WANG Xingang, ZHOU Zhen, ZHAO Hua, ZHANG Chenyang, LI Yujie* (1200)
Bonding Properties between Corroded Steel Strand and Concrete *LIU Yunyan, FAN Yingfang, LI Qiuchao* (1208)
Effect of Attached Mortar Content on Chloride Ion Erosion Resistance of Recycled Concrete *CHEN Chunhong, LIU Ronggui, ZHU Pinghua, ZANG Xuhang* (1216)
Sulfate Resistance and Mechanism Analysis of Different Geopolymer Mortars *ZHENG Yi, WANG Aiguo, LIU Kaiwei, ZHU Yingcan, WANG Xingyao* (1224)
Photocatalytic Humidity-Controlling Performance of g-C₃N₄-TiO₂ Loaded on Diatomite/Sphagnum Composite *HU Mingyu, ZHOU Xia, YAN Sheng, ZHAO Lina* (1234)
Compaction and Dynamic Deformation Properties of Rubber-Silt Lightweight Mixed Soil *ZHOU Enquan, ZHANG Jianghao, CUI Lei, ZONG Zhixin, LU Jianfei* (1242)
High Temperature Performance Evaluation Indices of Asphalt Mixtures *ZHANG Huaizhi, WANG Di, YANG Yanhai* (1248)
Low Temperature Performance Evaluation and Mechanism Analysis of Wood Tar-Based Rejuvenated Asphalt *LIU Chonglin, JIANG Kang, WU Chaofan, LIU Kefei* (1255)
Microstructure Characteristic and Properties of Iranian Rock Asphalt Modified Asphalt *JIN Xin, GUO Naisheng, SUN Siwei, SONG Chengzhe, YOU Zhanping* (1265)
Evaluation of Microstructure and Self-healing Properties of Asphalt Mortar under Heat Aging *CUI Yanan, ZHOU Jun, ZHAO Lin* (1271)
Effect of Long-Term Load on Mechanical Properties of Steel-Bamboo Combination Beams *MAO Ming, TONG Keting, ZHANG Jialiang, WANG Jianmin, LI Yushun* (1280)
Mechanical Properties of Q460 High-Strength Steel with Holes under High-Strain Cyclic Tensile Loading *LUO Wenwei, LI Haifeng, CAO Baoan* (1291)

Engineering Application

- Analysis on Influence of External Thermal Insulation on Structural Safety *LIU Yuzhang, ZHANG Jun, WANG Jiahe, YAO Chuanjie* (1300)
Flexural Property of Directional Steel Fiber Reinforced Geopolymer Composite Beams *ZHANG Weijie, XIE Ziling, ZHOU Huafei* (1307)
Corrosion Characteristics and Mechanical Properties of Steel Strands under Coupling Effect of Alternating Load and Chloride Salt Environment *YU Xuanrui, YAO Guowen, ZHONG Hao, JIANG Yixing* (1315)

Research Notes

- Corrosion Rate of Stainless Steel Rebar in Coral Concrete Prepared with Seawater *FENG Xingguo, LU Xiao, LU Xiangyu, YANG Yashi, LUO Feng* (1322)
Preparation of Polycarboxylate-Based Superplasticizer by Continuous Photo-Mediated RAFT Polymerization *PENG Jinying, QIAN Shanshan, YAO Yan, WANG Ziming, ZHENG Chunyang* (1328)
Effect of Bio-based Stabilizer to Technical Performance of SBS Modified Asphalt *GENG Litao, LIU Yue, HAN Hongchao, ZHANG Zhe, HAN Fangyan* (1335)
Adhesion Characteristics of Graphene Oxide Modified Asphalt Based on Surface Free Energy *ZHAO Yan, LI Bo, CAO Gui, YANG Juan, LI Zhiwei* (1341)
Tensile Properties of Polypropylene High Strength Geocell Based on Response Surface Method *ZHANG Bingbing, LIU Jie, AKENJIANG Tuohuti, WANG Bin, CHEN Shi* (1348)
(End of volume 24)