

硅酸盐学报

JOURNAL OF THE CHINESE CERAMIC SOCIETY

中国硅酸盐学会

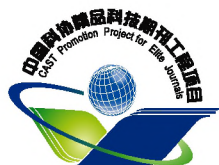
THE CHINESE CERAMIC SOCIETY

含不同掺量矿渣或粉煤灰的复合胶凝材料的水化动力学

韩方晖, 王栋民, 阎培渝

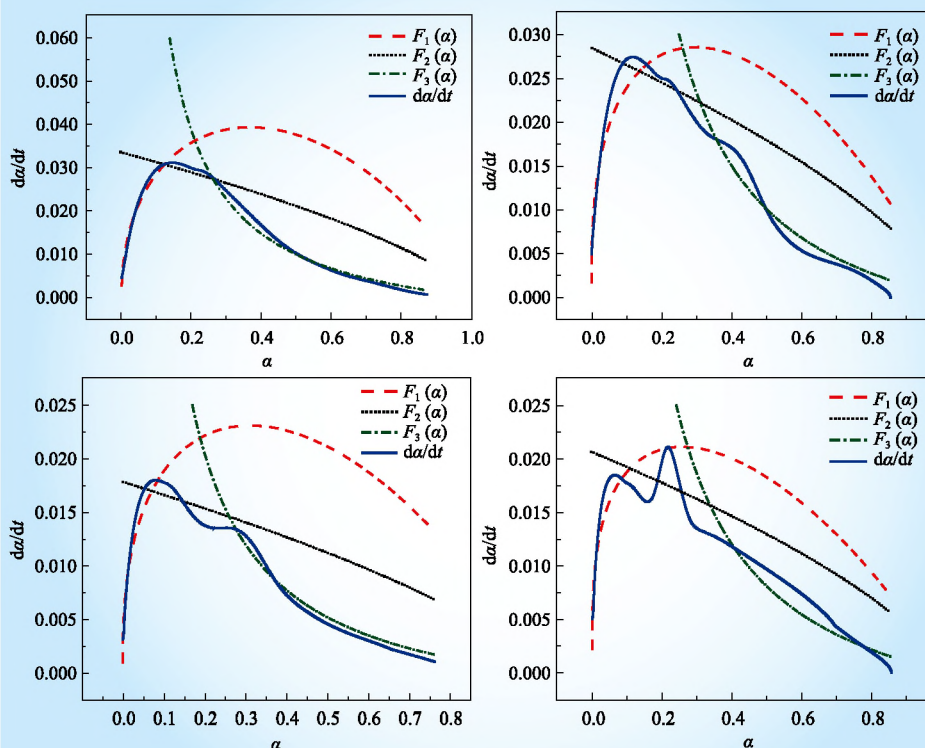
Hydration Kinetics of Composite Binder Containing
Different Content of Slag or Fly Ash

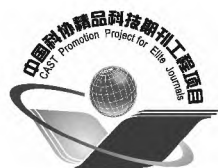
HAN Fanghui, WANG Dongmin, YAN Peiyu



Vol.42 No.5

2014





目 次

第八届水泥与混凝土国际会议专题(特约编辑: 阎培渝, 教授, 清华大学土木工程系; 史才军, 教授, 湖南大学土木工程学院)

- 微生物与矿物建筑材料的相互作用(英文)
Nele DE BELIE, WANG Jianyun, Willem DE MUYNCK, Sandra MANSO BLANCO, Ignacio SEGURO PÉREZ(563)
- 监测喷射混凝土的硬化和强度发展的一种新方法(英文)
..... David STACKELBERG, Boris WILGE, Shimon BOIKO(568)
- 模拟水泥孔溶液环境下钢筋阻锈剂对极化电阻常数的影响(英文)
..... 骆 琳, A ADRIAENS, A ELIA, G DE SCHUTTER(574)
- 光催化混凝土的性能(英文) D K PANESAR, M DOLATABADI(579)
- 不同水胶比的粉煤灰混凝土的自收缩(英文) 阎培渝, 陈志城(585)
- 激光共聚焦原位观察水泥早期水化(英文) 陈 登, 邓 敏, 兰祥辉, 莫立武(590)
- 超低温冻融循环对砂浆性能的影响(英文) 蒋正武, 邓子龙, 李文婷, 周 磊(596)
- 矿化剂硫酸钙和氟化钙作用下硅酸三钙的合成(英文) 周勇敏, Tom ROBL, Kevin HENKE(601)
- 亚硝酸盐在混凝土结构中的阻锈作用(英文) 柳俊哲, 孙 武, 贺智敏, 巴明芳, 袁伟静(607)

水泥基材料

- 含不同掺量矿渣或粉煤灰的复合胶凝材料的水化动力学 韩方晖, 王栋民, 阎培渝(613)
- 硅酸盐水泥-阳离子乳化沥青浆体的流变模型 彭建伟, 邓德华, 元 强, 刘赞群, 田 青(621)
- 水泥-钢渣-矿渣复合胶凝材料的水化特性 王 强, 黎梦圆, 石梦晓(629)
- 含硅烷官能团聚羧酸减水剂对水泥浆体流动性和力学性能的影响 孔祥明, 刘 辉, 蒋凌飞, 路振宝, 王栋民(635)
- 沥青对水泥沥青砂浆力学性能的影响 傅 强, 谢友均, 郑克仁, 宋 昊, 周锡玲(642)
- 磨细矿渣复合浆体流变参数与流动度的相关性 唐修生, 蔡跃波, 温金保, 黄国泓(648)
- 聚合物水泥混凝土的微观结构的研究进展 王培铭, 赵国荣, 张国防(653)

陶瓷

- 用聚碳硅烷制备柔性疏水型碳化硅纤维毡(英文) 余煜玺, 陈 勇, 吴晓云, 方庆玲, 吴小龙(661)
- 铋掺杂对铌酸钾钠无铅压电陶瓷结构和性能的影响 田爱芬, 徐志蓬, 刘淑娟, 蒋 妮, 杜慧玲(667)
- 过氧化氢/蒸馏水溶液冷冻干燥制备多孔羟基磷灰石陶瓷 程 喆, 赵 康, 张 伟, 郭彩霞(672)
- 低温自反应淬熄法制备微纳米钡铁氧体空心复相陶瓷微珠吸波剂 王建江, 姜鸿飞, 许宝才, 侯永伸, 高海涛(677)

矿物材料

- 不同矿石类型凹凸棒石黏土热处理后对磷的吸附性能 谢晶晶, 邢波波, 陈天虎, 庆承松, 谢巧勤, 徐 彬(683)
- 镁-铝类水滑石的摩擦性能 王晓波, 白志民, 贺智勇, 张启富(688)

JOURNAL OF THE CHINESE CERAMIC SOCIETY

Guisuanyan Xuebao

(Inorganic and Non-metallic Materials)

Total No. 302

May, 2014

Vol. 42, No. 5, Monthly

CONTENTS

The 8th International Symposium on Cement & Concrete Topics(Invited editors: YAN Peiyu, Professor, Department of Civil Engineering, Tsinghua University; SHI Caijun, Professor, College of Civil Engineering, Hunan University)

- Microbial Interactions with Mineral Building Materials (English)
Nele DE BELIE, WANG Jianyun, Willem DE MUYNCK, Sandra MANSO BLANCO, Ignacio SEGURO PÉREZ(563)
Principles of Monitoring Hardening and Strengthening of Shotcrete (English)
..... David STACKELBERG, Boris WILGE, Shimon BOIKO(568)
Influence of Corrosion Inhibitors on Stern-Geary Constant in Simulated Cement Pore Solutions (English)
..... LUO Lin, A ADRIAENS, A ELIA, G DE SCHUTTER(574)
Properties of Photocatalytic Concrete (English) D K PANESAR, M DOLATABADI(579)
Autogenous Shrinkage of Fly Ash Concrete with Different Water-Binder Ratios (English)
..... YAN Peiyu, CHEN Zhicheng(585)
In-situ Investigation of Cement Hydration at Early Age by Laser Scanning Confocal Microscopy (English)
..... CHEN Deng, DENG Min, LAN Xianghui, MO Liwu(590)
Freeze-Thaw Effect at Ultra-Low Temperature on Properties of Mortars (English)
..... JIANG Zhengwu, DENG Zilong, LI Wenting, ZHOU Lei(596)
Synthesis of Pure Tricalcium Silicate with Calcium Sulfate and Calcium Fluorides as Mineralizers (English)
..... ZHOU Yongmin, ROBL Tom, HENKE Kevin(601)
Corrosion Inhibition of Nitrite Salt in Existing Reinforced Concrete Structures (English)
..... LIU Junzhe, SUN Wu, HE Zhimin, BA Mingfang, YUAN Weijing(607)

Cement-based Material

- Hydration Kinetics of Composite Binder Containing Different Content of Slag or Fly Ash
..... HAN Fanghui, WANG Dongmin, YAN Peiyu(613)
Rheological Models for Portland Cement-Cationic Emulsified Asphalt Pastes
..... PENG Jianwei, DENG Dehua, YUAN Qiang, LIU Zhanqun, TIAN Qing(621)
Hydration Properties of Cement-Steel Slag-Ground Granulated Blast Furnace Slag Complex Binder
..... WANG Qiang, LI Mengyuan, SHI Mengxiao(629)
Influence of Silanized Polycarboxylate Polymers on Fluidity and Strength Development of Cementitious Material
..... KONG Xiangming, LIU Hui, JIANG Lingfei, LU Zhenbao, WANG Dongmin(635)
Influence of Asphalt on Mechanical Properties of Cement and Asphalt Mortar
..... FU Qiang, XIE Youjun, ZHENG Keren, SONG Hao, ZHOU Xiling(642)
Correlation Between Slump Flow and Rheological Parameters of Compound Pastes with High Volume of Ground Slag
..... TANG Xiusheng, CAI Yuebo, WEN Jinbao, HUANG Guohong(648)
Research Progress on Microstructure of Polymer Cement Concrete
..... WANG Peiming, ZHAO Guorong, ZHANG Guofang(653)

Ceramics

- Flexible and Hydrophobic Silicon Carbide Fibrous Mats Prepared from Polycarbosilane (English)
..... YU Yuxi, CHEN Yong, WU Xiaoyun, FANG Qingling, WU Xiaolong(661)
Influence of Bismuth Doping on Structure and Properties of Potassium Sodium Niobate Lead-free Ceramics
..... TIAN Aifen, XU Zhipeng, LIU Shujuan, JIANG Ni, DU Huiling(667)
Preparation of Hydroxyapatite Scaffolds *via* Freeze-casting Using Hydrogen Peroxide/Distilled Water
..... CHENG Zhe, ZHAO Kang, ZHANG Wei, GUO Caixia(672)
Barium-ferrite Hollow Multiphase Ceramic Micro-/Nano-sized Spheres Absorbent Prepared by Low-temperature Self-reactive
Quenching Technology WANG Jianjiang, LOU Hongfei, XU Baocai, HOU Yongshen, GAO Haitao(677)

Mineral Material

- Phosphate Removal Performance of Different Ore Type Palygorskites Clay after Thermal Treatment
..... XIE Jingjing, XING Bobo, CHEN Tianhu, QING Chengsong, XIE Qiaoqin, XU Bin(683)
Friction Performances of Magnesium-Aluminium Layered Double Hydroxide
..... WANG Xiaobo, BAI Zhimin, HE Zhiyong, ZHANG Qifu(688)

原书缺封底