

ISSN 0454-5648
CN 11-2310/TQ
CODEN KSYHA5

硅酸盐学报

JOURNAL OF THE CHINESE CERAMIC SOCIETY

中国硅酸盐学会

THE CHINESE CERAMIC SOCIETY

<http://www.gxyb.cbpt.cnki.net>



F5000

Vol.44 No.2

2016

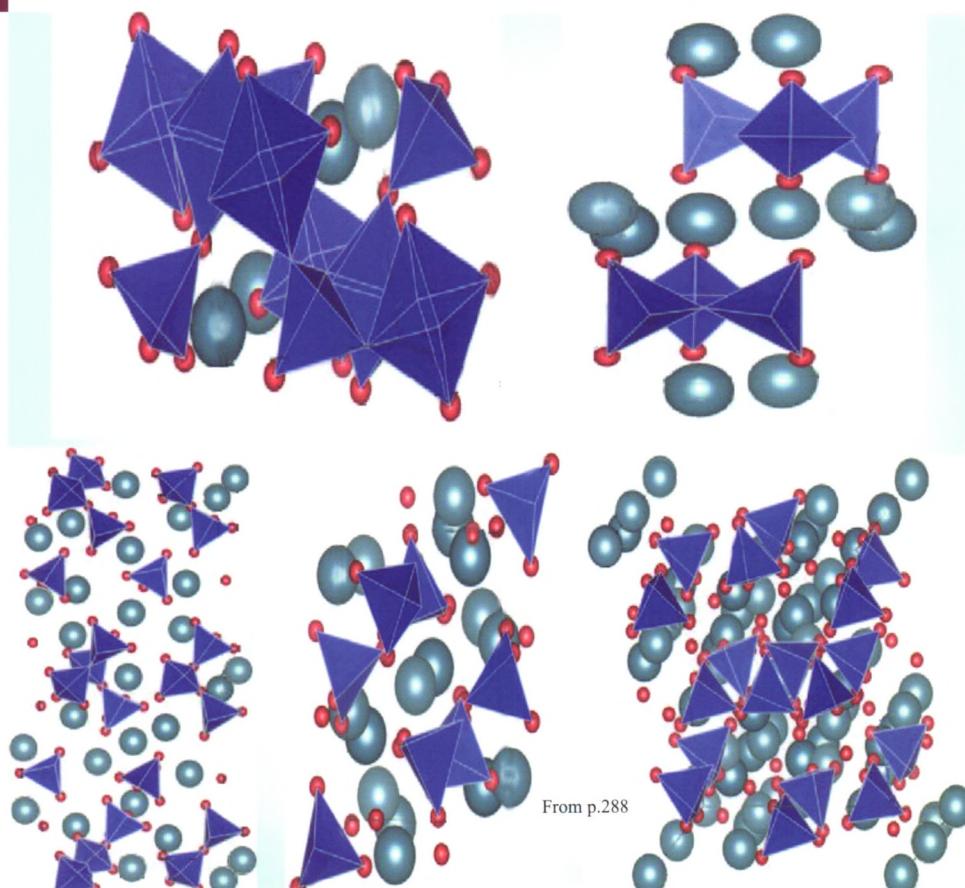
万方数据

硬化水泥净浆微观结构对微观徐变及力学性能的影响

梁思明, 魏 亚

Influence of Microstructure on Micro Creep and Mechanical Properties of Hardened Cement Paste

LIANG Siming, WEI Ya



Ei 核心期刊, Scopus, CA, SA, PЖ 收录期刊



F5000

1957 年创刊

硅酸盐学报

总 323 期

Guisuanyan Xuebao

(无机非金属材料)

<http://www.gxyb.cbpt.cnki.net>

第 44 卷 第 2 期 2016 年 2 月, 月刊

目 次

- 硬化水泥净浆微观结构对微观徐变及力学性能的影响..... 梁思明, 魏亚 (181)
内养护与膨胀剂复合作用对混凝土综合抗裂性能的影响..... 陈波, 丁建彤, 蔡跃波, 白银, 张文潇 (189)
以不同形态硅灰配制的高强混凝土的力学性能..... 阎培渝, 张波 (196)
玻璃粉的火山灰反应及对水化硅酸钙组成的影响..... 郑克仁, 陈楼, 周瑾 (202)
高温作用下牺牲混凝土的损伤演化..... 褚洪岩, 孙伟, 蒋金洋 (211)
磷酸盐对磷酸镁水泥粘结性能的影响..... 范英儒, 秦继辉, 汪宏涛, 尤超, 余金城, 钱觉时 (218)
用水量对偏高岭土基地聚合物微观结构及反应过程的影响..... 李款, 卢都友, 李孟浩, 陈贤瑞, 许仲梓 (226)
水泥浆体中氢氧化钙晶体的生长习性..... 沈裕盛, 唐明亮, 沈晓冬 (232)
电场与硫酸盐侵蚀共同作用下混凝土的劣化及其机理..... 黄谦, 王冲, 杨长辉, 周莹, 张超 (239)
不同水灰比、砂灰比下碳酸钙晶须对水泥砂浆流变性的影响..... 曹明莉, 许玲, 张聪 (246)
南海海域珊瑚混凝土结构的耐久性影响因素
..... 达波, 余红发, 麻海燕, 张亚栋, 朱海威, 余强, 叶海民, 景显双 (253)
自密实混凝土基本工作性能与其静态稳定性间的关系..... 张勇, 赵庆新, 李化建, 黄法礼 (261)
聚丙烯纤维增强水泥基复合材料界面过渡区的纳米力学性能..... 胡杰, 徐礼华, 邓方茜, 池寅, 刘素梅 (268)
生物膜对污水环境下混凝土腐蚀的影响..... 孔丽娟, 包昕, 曹梦凡 (279)
新型低钙水泥的制备及其碳化硬化过程
..... 侯贵华, 卢豹, 鄒效娇, 蒋伟丽, 张峰, 姜瑞雨, 许宁, 张勤芳, 邓晓 (286)
碳硫硅钙石和钙矾石的稳定性..... 王志娟, 郭川川, 宋远明, 王波, 徐惠忠 (292)
用低品位菱铁矿石去除水中低浓度磷酸盐..... 邢波波, 陈天虎, 刘海波, 庆承松, 谢巧勤, 谢晶晶 (299)
通过包覆含铝物质提高氧化铁的耐热性能..... 潘国祥, 盛欧微, 陈健, 李金花, 曹枫 (308)

- 羟基铁柱撑蒙脱石对庆大霉素的吸附性能 方圣琼, 潘 进, 李 晓, 翁洪平, 邱凌峰 (314)
- 用锰方硼石尾矿低温烧结制备微晶玻璃 穆小占, 汤庆国, 刘玉林, 段昕辉, 张 红, 梁金生 (322)
- 高氯酸对 SBA-15 的结构及水热稳定性的影响 王善民, 李 剑, 杨丽娜, 杨肖嵘, 陈国亮 (328)
- 黑云母/氯化镧复合粉体的摩擦性能 王进礼, 李立全, 刘 超, 周亮飞 (333)
- Gd³⁺/Si⁴⁺掺杂对 LiZnPO₄:Eu³⁺荧光粉发光性能的影响 熊晓波, 袁曦明, 宋江齐 (340)
- 氧化锆陶瓷子弹的高速冲击动态性能 付建平, 杨金龙, 印立魁, 刘 炜, 王坚茹, 陈智刚 (346)

JOURNAL OF THE CHINESE CERAMIC SOCIETY

Guisuanyan Xuebao

(Inorganic and Non-metallic Materials)

Total No. 323

<http://www.gxyb.cbpt.cnki.net>

February, 2016

Vol. 44, No. 2, Monthly

CONTENTS

Influence of Microstructure on Micro Creep and Mechanical Properties of Hardened Cement Paste	.....	LIANG Siming, WEI Ya (181)
Influence of Internal Curing and Expansive Agent on Concrete Complex Crack Resistance	.....	CHEN Bo, DING Jiantong, CAI Yuebo, BAI Yin, ZHANG Wenxiao (189)
Mechanical Properties of High Strength Concrete Prepared with Different Densities of Silica Fume	.....	YAN Peiyu, ZHANG Bo (196)
Pozzolanic Reaction of Soda-lime Glass and Its Influences on Composition of Calcium Silicate Hydrate	.....	ZHENG Keren, CHEN Lou, ZHOU Jin (202)
Damage Evolution of Sacrificial Concrete Subjected to Elevated Temperatures	.....	CHU Hongyan, SUN Wei, JIANG Jinyang (211)
Effect of Phosphates on Bond Performance of Magnesium Phosphate Cement	.....	FAN Yingru, QIN Jihui, WANG Hongtao, YOU Chao, YU Jincheng, QIAN Jueshi (218)
Effect of Water Content on Microstructure and Reaction Process of Metakaolin-based Geopolymers	.....	LI Kuan, LU Duyou, LI Menghao, CHEN Xianrui, XU Zhongzi (226)
Growth Habit of Portlandite Crystal in Cement Paste	.....	SHEN Yusheng, TANG Mingliang, SHEN Xiaodong (232)
Deterioration and Its Mechanism of Concrete under Combined Action of Electrical Field and Sulfate Attack	.....	HUANG Qian, WANG Chong, YANG Changhui, ZHOU Ying, ZHANG Chao (239)
Influence of Calcium Carbonate Whisker on Rheology of Cement Mortar with Different Water-Cement Ratios and Sand-Cement Ratios	.....	CAO Mingli, XU Ling, ZHANG Cong (246)
Factors Influencing Durability of Coral Concrete Structure in the South China Sea	.....	DA Bo, YU Hongfa, MA Haiyan, ZHANG Yadong, ZHU Haiwei, YU Qiang, YE Haimin, JING Xianshuang (253)
Relationship Between Basic Workability and Static Stability of Self-consolidating Concrete	.....	ZHANG Yong, ZHAO Qingxin, LI Huajian, HUANG Fali (261)
Nanoscale Mechanical Properties of Interfacial Transition Zone between Polypropylene Fiber and Cement Matrix	.....	HU Jie, XU Lihua, DENG Fangqian, CHI Yin, LIU Sumei (268)
Effect of Biofilm on Corrosion of Concrete in Sewage	.....	KONG Lijuan, BAO Xin, CAO Mengfan (279)
Preparation and Carbonation-Hardening Process of Low-Calcium Cement Composition	.....	HOU Guihua, LU Bao, GAO Xiaoqiao, JIANG Weili, ZHANG Feng, JIANG Ruiyu, XU Ning, ZHANG Qinfang, ZHI Xiao (286)
Stability of Thaumasite and Ettringite	.....	WANG Zhijuan, GUO Chuanchuan, SONG Yuanming, WANG Bo, XU Huizhong (292)
Removal of Low Concentration Phosphate Using Low Grade Siderite	.....	XING Bobo, CHEN Tianhu, LIU Haibo, QING Chengsong, XIE Qiaoqin, XIE Jingjing (299)

- Thermal Resistant Properties Improvement of Iron Oxide Yellow *via* Coating Substances Containing Aluminum PAN Guoxiang, SHENG Ouwei, CHEN Jian, LI Jinhua, CAO Feng (308)
- Adsorption Property of Gentamicin on Hydroxy-Fe Intercalated Montmorillonite FANG Shengqiong, PAN Jin, LI Xiao, WENG Hongping, QIU Lingfeng (314)
- Preparation of Glass Ceramics from Chambersite Ore Tailings *via* Low Temperature Sintering MU Xiaozhan, TANG Qingguo, LIU Yulin, DUAN Xinhui, ZHANG Hong, LIANG Jinsheng (322)
- Effect of Perchloric Acid on Mesostructre and Hydro-thermal Stability of SBA-15 WANG Shanmin, LI Jan, YANG Lina, YANG Xiaorong, CHEN Guoliang (328)
- Tribological Properties of Biotite/Lanthanum Chloride Composite Powders WANG Jinli, LI Liquan, LIU Chao, ZHOU Liangfei (333)
- Effect of Gd³⁺/Si⁴⁺ Doping on Luminescence Properties of LiZnPO₄:Eu³⁺ Phosphor XIONG Xiaobo, YUAN Ximin, SONG Jiangqi (340)
- Dynamic Properties of Zirconia Ceramic Bullets under High-Speed Impact FU Jianping, YANG Jinlong, YIN Likui, LIU Wei, WANG Jianru, Chen Zhigang (346)

April 7-11, 2016
Shanghai, China

24th International Congress on Glass

www.icg2016shanghai.com



SECOND ANNOUNCEMENT

Welcome to ICG Congress 2016!

Call for abstract (Abstract Due Date: October 15, 2015)

Participants are invited to submit abstracts in English. The abstracts of orals and posters will be published on the conference proceedings. The length is maximum 300 words. The format is available on the congress web page.

Session Arrangement (the following 11 sessions are suggested)

- Glass Structure and Theoretical Simulations
- Sol-gel and its application
- Thin-films, Coating and Surface treatment
- Glass properties, Testing and Characterization
- Functional Glasses
- Advanced Glass Melting, Forming and Processing
- Joint session on optical fibers among USA, UK and China
- Archaeometry of Glass
- Glass Transition and Relaxation
- Glass Crystallization and Phase Separation
- Glass Fibers
- Non-oxide Glasses

Plenary lectures

E. M. Dianov, The Fiber Optics Research Center (RAS), Russia

Bismuth-doped glass optical fibers: a new breakthrough in active laser media

F. X. Gan, Shanghai Institute of Optics and Fine Mechanics (CAS), China

Investigations on ancient Chinese glasses and related materials using modern techniques

J. Mauro, Corning Ltd. USA

Statistical mechanics of glass

P. S. Russell, Max Planck Inst Sci Light, Germany

Recent research progress on photonic Glass fibers

S. Peng, CTIEC, China

The strategic prospect of glass in world economic development

W. Kob, University of Montpellier, France

Computer simulations of glasses: What can be done today and tomorrow?

Y. Hirai, Asahi Glass Co. Ltd., Japan

New applications and technologies of glass for smart communities

E-mail: icg2016@vip.sina.com

定价：50 元

国外代号 BM57

万方数据

2016 年 2 月出版

国内代号 2-695

ISSN 0454-5648



9 770454 564151

02>