Ei 核心期刊, Scopus, CA, SA, P釆收录期刊



硅 酸 盐 学 报

总 354 期

#### 1957 年创刊

Guisuanyan Xuebao

(无机非金属材料)

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

第46卷 第9期 2018年9月,月刊

## 目 次

锡钛酸钡 BaSn<sub>x</sub>Ti<sub>1-x</sub>O<sub>3</sub> 厚膜陶瓷的大电卡效应

------李 江,路 标,李丹丹,姚英邦,梁 波,陶 涛,鲁圣国(1183)

Ba1-xSrxAl2Si2O8系陶瓷晶体结构及微波介电性能

Ce 掺杂 CaBi<sub>8</sub>Ti<sub>7</sub>O<sub>27</sub> 共生铋层状铁电陶瓷的结构与电学性能

牙科用氧化锆陶瓷的稳定性、制备工艺及临床应用研究进展(综合评述)

一一一类光烧,苏海军,张 军,刘 林,郭 敏,任 群,傅恒志(1263)
铁铜色釉的呈色特性及窑变机理
王 毅,余隋怀(1273)
基于紫外-可见-近红外光谱特征映射矩阵的古陶瓷分类方法
可见-近红外光谱特征映射矩阵的古陶瓷分类方法
可加,查尔,罗宏太(1280)
TiO<sub>2</sub>对(K,Na)<sub>2</sub>O-CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>系分相乳浊釉性能及结构的影响
二二二、刘 韩,周健儿,包启富,刘 昆,杨瑞强,董伟霞(1287)
温度和成分质量比对聚碳硅烷陶瓷先驱体产率的影响
二二二、除智勇,李妙玲,孙卫康,张东生,徐颖强,刘建寿,程广伟,李 彬 (1297)
金属-半导体-金属结构非极性 a-AlGaN 深紫外探测器的制备
一一一一一资本,常建、有路强,梁 征,张 滢 (1304)
氮气保护下镁砂对 Al-刚玉体系物相的影响
二、郑清瑶,李 勇,全尚好,闫明伟,李 玲,孙 洋 (1309)
氧化铝微粉对刚玉浇注料高温性能的影响

## JOURNAL OF THE CHINESE CERAMIC SOCIETY

#### Guisuanyan Xuebao

(Inorganic and Non-metallic Materials) http://www.gxyb.cbpt.cnki.net

September, 2018

# Vol. 46, No. 9, Monthly

### CONTENTS

Large Electrocaloric Effect in $BaSn_xTi_{1-x}O_3$ Thick Film Ceramics
LI Jiang, LU Biao, LI Dandan, YAO Yingbang, LIANG Bo, TAO Tao, LU Shengguo (1183)
Crystal Structure and Microwave Dielectric Properties of Ba <sub>1-x</sub> Sr <sub>x</sub> Al <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> Ceramics
SONG Tianxiu, DING Shihua, ZHANG Yao, ZHANG Yun, YAN Xinkan, HUANG Long, ZHANG Xiaoyun (1191)
Effect of Ni Doping on Microstructure and Ferroelectric Properties of Bismuth-layered Perovskite Bi <sub>6</sub> Fe <sub>2</sub> Ti <sub>3</sub> O <sub>18</sub> Thin Films
DAI Yuqiang, GAO Qianqian, LIU Zhendong (1196)
Structural and Electrical Properties of Ce Doped CaBi <sub>8</sub> Ti <sub>7</sub> O <sub>27</sub> Intergrowth Layered Ferroelectric Ceramics
FAN Gang, JIANG Xiangping, JIANG Fulan, CHEN Chao, TU Na, CHEN Yunjing, SHU Kaizheng, DU Keyi, JIANG Xingan (1203)
Influence of Nonstoichiometry on Electrical Properties of (SmLi) <sub>0.04</sub> (BiNa) <sub>0.46</sub> TiO <sub>3</sub> Ceramics
SUN Hongmei, LIU Xiao, LI Bo, LIU Xinyu (1210)
Synthesis of $Na-\beta''-Al_2O_3$ Solid Electrolytes by Solid-state Reaction Method
WANG Zhumei, ZHANG Tianfeng, ZUO Hongwei, XIE Zhixiang, LI Yueming, CHENG Liang (1217)
Microwave Absorption Behavior of Template-Assisted Combustion Synthesis of ZrB <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Fibers
DING Donghai, WANG Jing, ZHOU Pan, XIAO Guoqing (1222)
Effect of Radiation Field on Infrared Emissivity of $La_{1-x}Sr_xMnO_3$
SHEN Xingmei, WANG Ping, CAO Fabin, WU Xingrong, LI Liaosha, CHENG Guoqing (1228)
Thermal Shock Resistance and Failure Mechanism of ZrB2-based Ultra-high Temperature Ceramic Composites – a Short Review (Review)
CHEN Limin, SUO Xiangbo, WANG Anzhe, ZHANG Zhengjun (1235)
Fabrication, Pore Structure and Mechanical / Electrical Properties of Porous Titanium Nitride Ceramics
CHEN Fei, HUANG Mei, SHEN Qiang, ZHANG Lianmeng (1244)

Total No. 354

Preparation and Characterization of Composite Porous Ceramic Supports from Alumina and Magnesium Aluminate Spinel
LI zhifan, HUANG jianguo (1250)
Preparation and Properties of Gel-casting Magnesia-Alumina Spinel Porous Ceramics
LI Simeng, HUANG Jianguo (1257)
Research Progress on Reliability, Preparation Technology and Clinical Application of Zirconia Dental Ceramic (Review)
FAN Guangrao, SU Haijun, ZHANG Jun, LIU Lin, GUO Min, REN Qun, FU Hengzhi (1263)
Coloring Characteristics and Fambe Mechanism of Iron and Copper Coloring Glaze
WANG Yi, YU Suihuai (1273)
Ancient Ceramics Classification Using Ultraviolet-visible and Near-infrared Spectral Feature Mapping Matrix
HU Xunyin, GUAN Yepeng, LI Weidong, LUO Hongjie (1280)
Effect of Titanium Dioxide on Properties and Structure of Phase-separated Opaque Glaze in (K,Na) <sub>2</sub> O-CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> System
LIU Han, ZHOU Jian'er, BAO Qifu, LIU Kun, YANG Ruiqiang, DONG Weixia (1287)
Effects of Temperature and Composition Mass Ratio on Yield of Polycarbosilane Ceramic Precursor
CHEN Zhiyong, LI Miaoling, SUN Weikang, ZHANG Dongsheng, XU Yingqiang, LIU Jianshou, CHENG Guangwei, LI Bin (1297)
Fabrication of Metal-Semiconductor-Metal Deep Ultraviolet Photodetetor on Nonpolar a-AlGaN
JIA Hui, XU Jianfei, SHI Lushan, LIANG Zheng, ZHANG Ying (1304)
Phases of Al-Al <sub>2</sub> O <sub>3</sub> Materials by High Purity Magnesia in Nitrogen Atmosphere
Effect of Alumina Micron-sized Powder on High-temperature Performance of Corundum-based Refractory Castables

*BAI Chen, DENG Chengji, LI Xiangcheng* (1315)