



第 38 卷 第 10 期 2010 年 10 月

目 次

[研究论文, 中文]

- La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-δ}-Sm_{0.2}Ce_{0.8}O_{1.9} 复合阴极的制备及性能表征 石 平, 程继贵, 董 洁, 何海根 (1857)
- Ca₃Sc₂Si₃O₁₂:Ce³⁺, Nd³⁺ 近红外荧光粉的制备和发光性质 万文娇, 肖全兰, 杨创涛, 孟建新 (1862)
- 碳热还原法合成硼化钛 马爱琼, 蒋明学, 王 臻 (1867)
- 化学溶液法制备 Pb(Zr_{0.52}Ti_{0.48})O₃-CoFe₂O₄ 复合薄膜及其电极 陈源清, 赵高扬, 夏卫民 (1872)
- 钙钛矿 La_{1-x}Zn_xMnO₃ 薄膜结构及巨磁电阻 刘利民, 刘 建, 金永军 (1876)
- Lu₂SiO₅:Ce 透明薄膜的制备及其发光性能 贾凌春, 顾 牡, 刘小林, 黄世明, 刘 波, 倪 晨 (1882)
- Zr_{1-x}Si_xN 纳米涂层的制备及其力学性能 黄若轩, 孙 鹏, 朱芳萍, 祁正兵, 王周成 (1886)
- CVD 金刚石衬底上抗氧化、增透膜的制备与性能 闫 锋, 刘正堂, 巨志高 (1891)
- 模板法制备 GdCo_xO_y 纳米管阵列及磁性能 庞 菲, 刘桂林, 昌 杰, 袁孝友 (1896)
- 平均孔径与改性氧化物对 α-Al₂O₃ 微滤膜油水分离效率的影响 胡学兵, 周健儿, 汪永清, 张小珍 (1900)
- 硼掺杂微晶硅薄膜的椭圆偏振光谱分析 李新利, 卢景霄, 王志永, 谷锦华, 李 瑞, 杨仕娥 (1905)
- 西兰花状碳酸钙粉体的制备及表征 陈先勇, 唐 琴, 胡卫兵, 周贵云 (1912)
- Er:LiGdF₄ 晶体生长及光谱性能 李 春, 张 莹, 张学建, 林 海, TONELLI M, DI LIETO A, 王成伟, 曾繁明, 刘景和 (1918)
- 银纳米颗粒/玻璃复合材料的吸收光谱特征 刘会欣, 杨修春, 赵建富, 李玲玲, 黄 敏 (1922)
- 快中子辐照直拉硅中的氧沉淀及诱生缺陷 马巧云, 陈贵锋, 马晓薇, 薛晶晶, 郝秋艳 (1927)
- 溶胶-凝胶法制备纳米级硅酸锆粉体的发光性能 谢建军, 林 挺, 施 鹰, 宋国新, 吴卫平 (1931)
- ZSM-5/MOR 共生分子筛的合成机理 II——合成中的相变过程 马广伟, 张慧宁, 姜向东 (1937)
- 六铝酸钙/镁铝尖晶石复相材料的制备及性能 刘艳改, 卫李贤, 房明浩, 冀新友, 黄朝晖 (1944)
- 以 MgSiN₂ 作烧结助剂制备高热导 β-Si₃N₄ 陶瓷 梁振华, 彭桂花, 李庆余, 王红强, 刘 茜, 李文兰 (1948)
- 注凝成型工艺制备 Al₂O₃-ZrO₂(3Y)-SiC 复相陶瓷及其性能 徐晓虹, 焦国豪, 吴建锋, 饶郑刚, 徐 瑜, 赵 芳 (1953)
- 高能球磨和热压烧结制备 SiC/Ti₃SiC₂ 复相陶瓷及其性能 刘波波, 王 芬, 朱建锋, 李亚玲, 杨志波 (1959)
- 城市污泥为部分原料制备黏土烧结普通砖 林子增, 孙克勤 (1963)
- 碳化硅装甲陶瓷的磨削钻孔及机理 高 超, 袁军堂, 宋中权, 金 浩 (1969)

[综合评述]

- 新型闪烁晶体 SrI₂:Eu 及研究进展 秦来顺, 史宏声, 舒康颖, 任国浩 (1977)

[研究论文, 英文]

稀土氧化物对氮化铝瓷介电性能的影响.....姚义俊, 李纯成, 蒋晓龙, 刘 斌, 丘 泰 (1982)

掺杂 Sm^{3+} 对 $\text{Ce}_{0.84}\text{Y}_{0.16}\text{O}_{2-\delta}$ 固体电解质材料性能的影响.....周 明, 高 凌, 郑益锋, 葛 林, 郭露村 (1986)

阴极共电沉积制备 $\text{ZnO}/\alpha\text{-FeOOH}$ 复合膜及其光催化活性.....魏守强, 陈玉叶, 马玉燕, 卢旭东, 邵忠财 (1991)

正交结构与黄铜矿结构 LiGaSe_2 的制备及结构表征.....马天慧, 杨春晖, 朱崇强, 孙 亮, 任玉兰 (1996)

CdSe/SiO_2 荧光微球的制备及其荧光性能
.....王德平, 胡 朗, 吴立功, 姚爱华, 黄文岳, 林文庆, 奥野敦史, 益永达则 (2001)

$\text{RE:KYb(WO}_4)_2$ ($\text{RE}=\text{Nd}^{3+}, \text{Er}^{3+}$) 激光晶体生长与结构特性
.....张 莹, 曾繁明, 李 春, 林 海, 王成伟, 秦杰明, TONELLI Mauro, 刘景和 (2005)

Na 掺杂 ZnO 薄膜光诱导亲水性的转化.....吕建国, 黄 凯, 陈学梅, 朱剑博, 孟凡明, 宋学萍, 孙兆奇 (2010)

碳纤维增强碳复合材料表面多层复合涂层中 SiC 和 TiC 内层的比较.....焦更生, 李贺军, 卢国锋 (2014)

以工业钛液为原料低成本制备锐钛矿型纳米二氧化钛.....陈小泉, 李宗任, 沈文浩 (2021)

石英玻璃和载玻片衬底磁控溅射纳米 TiO_2 薄膜的光致亲水性.....孟凡明, 鲁 飞 (2026)

红色荧光粉 $\gamma\text{-LiAlO}_2\text{:Eu}^{3+}$ 的溶胶-凝胶法制备及发光性能.....吉红新, 杨定明, 胡文远, 谢礼梅, 叶 旭 (2030)

JOURNAL OF THE CHINESE CERAMIC SOCIETY

(Guisuanyan Xuebao)

(A Monthly Journal of the Arts and Sciences of Ceramics)

Total No. 259

October, 2010

Vol. 38 No. 10

CONTENTS

[Research Paper, in Chinese]

- Preparation and Characterization of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}\text{-Sm}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ Composite Cathodes
..... SHI Ping, CHENG Jigui, DONG Jie, HE Heigen (1857)
- Synthesis and Near-Infrared Luminescence of $\text{Ca}_3\text{Sc}_2\text{Si}_3\text{O}_{12}:\text{Ce}^{3+}, \text{Nd}^{3+}$ Phosphor Powders
..... WAN Wenjiao, XIAO Quanlan, YANG Chuangtao, MENG Jianxin (1862)
- Synthesis of Titanium Diboride by Carbonthermal Reduction Method..... MA Aiqiong, JIANG Mingxue, WANG Zhen (1867)
- Synthesis of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3\text{-CoFe}_2\text{O}_4$ Composite Films and Their Electrodes by Chemical Solution Deposition
..... CHEN Yuanqing, ZHAO Gaoyang, XIA Weimin (1872)
- Structure and Giant Magnetic Resistance of Perovskite $\text{La}_{1-x}\text{Zn}_x\text{MnO}_3$ Thin Films..... LIU Limin, LIU Jian, JIN Yongjun (1876)
- Preparation and Luminescent Properties of $\text{Lu}_2\text{SiO}_5:\text{Ce}$ Transparent Thin Film
..... JIA Lingchun, GU Mu, LIU Xiaolin, HUANG Shiming, LIU Bo, NI Chen (1882)
- Preparation and Mechanical Properties of $\text{Zr}_{1-x}\text{Si}_x\text{N}$ Nano-Coatings
..... HUANG Ruoxuan, SUN Peng, ZHU Fangping, QI Zhengbing, WANG Zhoucheng (1886)
- Preparation and Properties of Antioxidative and Antireflective Films on CVD Diamond
..... YAN Feng, LIU Zhengtang, JU Zhigao (1891)
- Fabrication of GdCo_2O_y Nanotube Arrays in Anodic Aluminium Oxide Templates and Magnetic Behaviour
..... PANG Fei, LIU Guilin, CHANG Jie, YUAN Xiaoyou (1896)
- Influence of Average Pore Diameter and Modifying Oxide on the Oil-Water Separation Efficiency of $\alpha\text{-Al}_2\text{O}_3$ Microfiltration Membrane..... HU Xuebing, ZHOU Jianer, WANG Yongqing, ZHANG Xiaozhen (1900)
- Boron-Doped Microcrystalline Silicon Films Using Spectroscopic Ellipsometry Analysis
..... LI Xinli, Lu Jingxiao, WANG Zhiyong, GU Jinhua, LI Rui, YANG Shi'e (1905)
- Preparation and Characterization of Broccoli Flower-Like Calcium Carbonate Powder
..... CHEN Xianyong, TANG Qin, HU Weibing, ZHOU Guiyun (1912)
- Growth and Spectral Properties of $\text{Er}:\text{LiGdF}_4$ Crystal
..... LI Chun, ZHANG Ying, ZHANG Xuejian, LIN Hai, TONELLI M, DI LIETO A, WANG Chengwei, ZENG Fanning, LIU Jinghe (1918)
- Absorption Spectra Characteristics of Ag Nanoparticles/Glass Composites
..... LIU Huixin, YANG Xiuchun, ZHAO Jianfu, LI Lingling, HUANG Min (1922)
- Oxygen Precipitation and Induced Defects in Fast Neutron Irradiated Czochralski Silicon
..... MA Qiaoyun, CHEN Guifeng, MA Xiaowei, XUE Jingjing, HAO Qiuyan (1927)
- Luminescence Properties of Nano-Sized $\text{Lu}_2\text{SiO}_5:\text{Ce}$ Phosphors Prepared by Sol-Gel Method
..... XIE Jianjun, LIN Ting, SHI Ying, SONG Guoxing, WU Weiping (1931)
- Synthesis Mechanism of ZSM-5/Mordenite Intergrowth Molecular Sieves II—The Phase Transition Process
..... MA Guangwei, ZHANG Huining, JIANG Xiangdong (1937)
- Fabrication and Properties of Calcium-Hexaluminate/Magnesium-Aluminium Spinel Composites
..... LIU Yangai, WEI Lixian, FANG Minghao, JI Xinyou, HUANG Zhaohui (1944)
- Fabrication of High Thermal Conductivity $\beta\text{-Si}_3\text{N}_4$ Ceramics with MgSiN_2 As Additive
..... LIANG Zhenhua, PENG Guihua, LI Qingyu, WANG Hongqiang, LIU Qian, LI Wenlan (1948)
- Preparation of $\text{Al}_2\text{O}_3\text{-ZrO}_2(3\text{Y})\text{-SiC}$ Composite Ceramics by Gelcasting and Its Properties
..... XU Xiaohong, JIAO Guohao, WU Jianfeng, RAO Zhenggang, XU Yu, ZHAO Fang (1953)
- Preparation of $\text{SiC}/\text{Ti}_3\text{SiC}_2$ Composite Ceramics by High Energy Ball Milling and Hot Pressing and Its Properties
..... LIU Bobo, WANG Fen, ZHU Jianfeng, LI Yaling, YANG Zhibo (1959)
- Preparation of Common Clay Brick by Sewage Sludge As the Partial Raw Material..... LIN Zizeng, SUN Keqin (1963)

Hole-Drilling and Mechanisms of SiC Armor Ceramic..... GAO Chao, YUAN Juntang, SONG Zhongquan, JIN Hao (1969)

[Review]

Research Progress of A New Scintillation Crystal $\text{SrF}_2\text{:Eu}$

.....QIN Laishun, SHI Hongsheng, SHU Kangying, REN Guohao (1977)

[Research Paper, in English]

Effects of Rare Earth Oxide Additives on Dielectric Behaviors of Aluminum Nitride Ceramics

.....YAO Yijun, WANG Ling, JIANG Xiaolong, LI Chuncheng, QIU Tai (1982)

Effect of Sm^{3+} Doping on Properties of $\text{Ce}_{0.84}\text{Y}_{0.16}\text{O}_{2-\delta}$ Solid Electrolyte Materials

.....ZHOU Ming, GAO Ling, ZHENG Yifeng, GE Ling, GUO Lucun (1986)

Cathodic Co-Electrodeposition of $\text{ZnO}/\alpha\text{-FeOOH}$ Composite Films and Their Photocatalytic Performance

.....WEI Shouqiang, CHEN Yuye, MA Yuyan, LU Xudong, SHAO Zhongcai (1991)

Preparation and Structure Characteristics of Orthorhombic and Chalcopyrite LiGaSe_2

.....MA Tianhui, YANG Chunhui, ZHU Chongqiang, SUN Liang, REN Yulan (1996)

Preparation and Photoluminescence Properties of CdSe/SiO_2 Fluorescent Microspheres

.....WANG Deping, HU Lang, WU Ligong, YAO Aihua, HUANG Wenhai, HAYASHI Fumiyoshi,
OKUNO Atsushi, MASUNAGA Tatsunori (2001)

Growth and Structure Characteristics of $\text{Re}(\text{Nd}^{3+}, \text{Er}^{3+})$ -Doped Potassium Ytterbium Tungstate Laser Crystal

.....ZHANG Ying, ZENG Fanming, LI Chun, LIN Hai, WANG Chengwei, QIN Jieming,
TONELLI Mauro, LIU Jinghe (2005)

Photo-Induced Hydrophilicity Conversion of Na-Doped ZnO Thin Films

.....LÜ Jianguo, HUANG Kai, CHEN Xuemei, ZHU Jianbo, MENG Fanming, SONG Xueping, SUN Zhaoqi (2010)

Comparisons of SiC and TiC Inner Coatings of Three Layers Composite Coatings on the Surface of Carbon Fiber Reinforced

Carbon Composites.....JIAO Gengsheng, LI Hejun, LU Guofeng (2014)

Low Cost Preparation of Nanosized Anatase Titania with Industrial Titanic Solution as Start Materials

.....CHEN Xiaoquan, LI Zongren, SHEN Wenhao (2021)

Photo-Induced Hydrophilicity of Nano- TiO_2 Thin Films on Quartz Glass and Glass Substrates Prepared by rf Magnetron

Sputtering.....MENG Fanming, LU Fei (2026)

Synthesis of $\gamma\text{-LiAlO}_2\text{:Eu}^{3+}$ by Sol-Gel Method and Its Luminescence Properties

.....JI Hongxin, YANG Dingming, HU Wenyuan, XIE Limei, YE Xu (2030)