

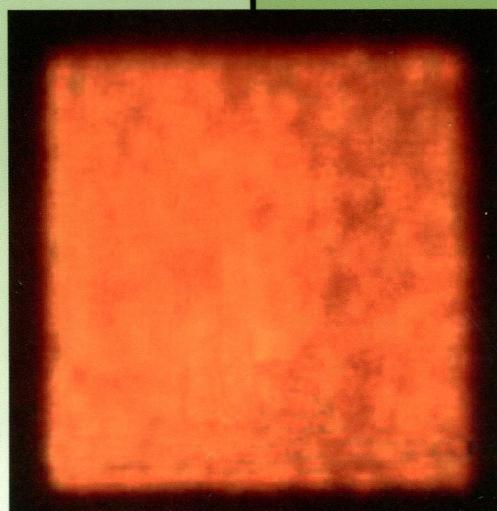
NY  
169/jac

VOLUME 10 | ISSUE 4  
JULY/AUGUST 2013

*International Journal of*  
**Applied  
Ceramic  
TECHNOLOGY**

**Topical Focus**

LED Technologies



**WILEY**

## EMERGING OPPORTUNITIES IN CERAMICS: REPORTS FROM THE 4<sup>TH</sup> INTERNATIONAL CONGRESS ON CERAMICS

Nanoceramics: Issues and Opportunities.....	565
<i>O. Van der Biest</i>	
Nanoscale Ceramics: Environmental, Health, and Safety (EHS) Implications.....	577
<i>S. M. Johnson, L. D. Madsen, and S. Freiman</i>	
Sustainable Infrastructure Materials: Challenges and Opportunities .....	584
<i>M. Pour-Ghaz</i>	

## TOPICAL SECTION: LED TECHNOLOGIES

Photoluminescence Investigations of the Near White Light Emitting Perovskite Ceramic SrZrO <sub>3</sub> :Dy <sup>3+</sup> Prepared Via Gel-Combustion Route.....	593
<i>S. K. Gupta, M. Mohapatra, V. Natarajan, and S. V. Godbole</i>	
Improved Photoluminescence Property of YBO <sub>3</sub> :Eu <sup>3+</sup> Phosphor by Structure Tailoring.....	603
<i>D. Jin, J. Yang, X. Miao, and L. Wang</i>	
Effect of Boron Nitride (BN) on Luminescent Properties of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce Phosphors and their White Light-Emitting Diode Characteristics.....	610
<i>X. Wang, X. Liu, H. Li, Z. Zhang, Z. Sun, H. Zhang, and Y. Zhao,</i>	
Effect of Particle Size on the Optical Properties of Yellow Silicate Phosphor in Light-Emitting Diodes .....	617
<i>M.-S. Jang, W.-H. Kim, Y.-R. Kang, S.-B. Song, J.-P. Kim, and J.-H. Kim</i>	
Homogeneous Precipitation Synthesis and Low-Voltage Cathodoluminescence of SnO <sub>2</sub> :Eu <sup>3+</sup> Phosphors for Field Emission Displays.....	625
<i>T. Huang, X. Wang, P. Zhu, H. Li, T. Feng, and Z. Sun</i>	
Synthesis and Photoluminescence Characteristics of YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Tb <sup>3+</sup> Phosphors by Combustion Process .....	631
<i>G. Li, Z. Li, Q. Cao, Y. Huang, and J. Shi</i>	
The Thermal Stability and Photoluminescence Degradation of Mn <sup>2+</sup> in Fluorescent Lamp used BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> ,Mn <sup>2+</sup> Phosphor.....	638
<i>J. Zhang, M. Zhou, B. Liu, and Y. Wang</i>	

## GENERAL SECTION

Factors Influencing the Thermal Stability and Lead Sorption Capacity of Hydroxyapatite Manufactured by Precipitation Method Using Industrial Calcium Hydroxide .....	643
<i>A. Salem and E. Velayi</i>	
Improvement of Mullite and Magnesia-Based Refractory Castables Through Addition of Nano-Spinel Powder .....	655
<i>N. M. Khalil, M. M. S. Wahsh, E. M. M. Ewais, M. B. Hassan, and S. M. Mehrez</i>	
Application of Design of the Experiment in Preliminary Investigations on the end Milling of Low Temperature Co-fired Ceramics .....	671
<i>D. Jurkow and L. Golonka</i>	
Piezoelectric and Pyroelectric Materials Selection .....	682
<i>R. Vaish</i>	
Effects of Impurity Iron Content on Characteristics of Sintered Reaction-Bonded Silicon Nitride.....	690
<i>D. Kusano, Y. Noda, H. Shibusaki, H. Hyuga, Y. Zhou, and K. Hirao</i>	
Effects of LiF on the Structure and Properties of Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> Lead-Free Piezoelectric Ceramics .....	701
<i>C. K. I. Tan, K. Yao, and J. Ma</i>	
Synthesis of Alkali Aluminosilicates — Materials for Alkali Contaminated Environments at High Temperatures .....	707
<i>N. Brachhold and C. G. Aneziris</i>	
Sintering and Dielectric Properties of Li <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Glass-Added (Ca <sub>0.7</sub> Sr <sub>0.3</sub> O) <sub>1.03</sub> (Ti <sub>0.1</sub> Zr <sub>0.9</sub> )O <sub>2</sub> for Copper Electrode .....	716
<i>H. Shin, S.-W. Lee, and H. S. Jung</i>	