

# JOURNAL OF THE AUSTRALASIAN CERAMIC SOCIETY

J. AUST. CERAM. SOC., VOLUME 37, NUMBER 2, (2001)

- 1 Sol-Gel Processing for Porous Silica Antireflective Coatings  
**K. Wongcharee, M. Brungs, R. Chaplin, R. Pillar, Y. J. Hong and E. Sizgek**
- 7 Mechanism of Oxidation of Magnesia-Carbon Refractories  
**H. Sunayama and M. Kawahara**
- 13 Study of Spontaneous Crystalline-Phase Separative Opaque Glazes Fired Fast Under Low Temperature  
**W. Li, J. Huang, C. Sun and Q. Zhang**
- 21 The Dielectric and Piezoelectric Properties of BTZ-Series Ceramics with Addition of Glass Frit  
**C. H. Wang**
- 27 The Effects of Solid Lubricant Varieties on the Properties of Self-Lubricating Al<sub>2</sub>O<sub>3</sub>-based Ceramic Composite Materials  
**X. Chen**
- 33 Improvement of Thermoelectric Properties of FeSi<sub>2</sub> by Adding Oxides and their Interfaces  
**S. Sugihara, S. Mochizuki, H. Suzuki, T. Bak and J. Nowotny**
- 49 Hydrothermal Reactions in Inorganic Materials Science  
**S. Somiya**