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Glasses; SOLID OXIDE FUEL CELLS AND HYDROGEN TECHNOLOGY; Low Temperature Hydrogen Release from Boron Tetrahydride- Sodalite and Its Reloading: Observations in In-situ and Ex-situ TIR Experiments Synthesis and Characterization in the New System $\text{Bi}_2(\text{Al}/\text{Ga})_4\text{O}_9$ and $^{18}\text{O}/^{16}\text{O}$ Exchange Experiments Microstructure of Sm-Doped Ceria Interlayer and the Impedance of $\text{LaSrCoFeO}_3/\text{SDC/LAMOX}$ Half Cell; CERAMICS FOR ELECTRIC ENERGY GENERATION, STORAGE AND DISTRIBUTION; Environmental Impact Evaluation of Ceramics Using Exergy Analysis; The Dynamic Characteristics of Ultrasonic Therapeutic Transducers Using Lead-Free $\text{Na}_0.5\text{K}_0.5\text{NbO}_3$ Based Ceramics; Direct In-Situ Growth of Multiwalled Carbon Nanotubes on Silicon Carbide Particles as a Precursor for Fabricating Silicon Carbide-Carbon Nanotube Composites
PHOTOCATALYTIC MATERIALS Effect of Functional Coatings on Topographical Properties of Glass; Skin Damage by Different Shapes of Photocatalyst Nanoparticles; Characterization of Crystallized TiO_2 Film by Post Plasma Treatment; DIRECT THERMAL TO ELECTRICAL ENERGY CONVERSION MATERIALS; Thermoelectric Properties of Oxygen Deficient $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ - Ceramics; Author Index

Sommario/riassunto

This volume is a collection of 17 papers from six symposia held during the 8th Pacific Rim Conference on Ceramic and Glass Technology (PACRIM-8) in Vancouver, British Columbia, Canada, May 31-June 5, 2009. These symposia include: Glasses and Ceramics for Nuclear and Hazardous Waste Treatment Solid Oxide Fuel Cells and Hydrogen Technology Ceramics for Electric Energy Generation, Storage and Distribution Photocatalytic Materials: Reaction, Processing, and Applications Direct Thermal to Electrical Energy Conversion Materials and Applications PACRIM-8 is the eighth in a series
