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Preparation of Ti02-Nanoparticles-Thin Films by Electrophoresis Deposition MethodEffect of Nano-Silica on Acid Resistance Properties of Enamel and Its Connection to Energy Saving; Immobilization of Myoglobin with Regenerated Silk Fibroin/MWCNTs on Screen-Printed Electrode: Direct Electrochemistry and Electrocatalysis of H202; Liquid Phase Patterning and Morphology Control of Metal Oxides; Role of Nano-Structured Domain Derived from Organically Modified Silicate in Electrocatalysis; Individual Metal Oxide Nanowires in Chemical Sensing: Breakthroughs, Challenges and Prospects
Preparation and Their Mechanical Properties of Al203/Ti Composite MaterialsBiphasic Nano-Materials and Applications in Life Sciences: 1D Al/Al203 Nanostructures for Improved Neuron Cell Culturing; Bioactive Glass-Ceramic/Mesoporous Silica Composite Scaffolds for Bone Grafting and Drug Release; Comparison of Oxide and Nitride Thin Films-Electrochemical Impedance Measurements and Materials Properties; Synthesis of PbTe Nanowires with Enhanced Seebeck Coefficient; Author Index

Sommario/riassunto

The Symposium on Nanostructured Materials and Systems was held during the 8th Pacific Rim Conference on Ceramic and Glass Technology (PACRIM 8) from May 31-June 5, 2009 in Vancouver, Canada. This symposium aimed to review the progress in the state-of-the-art of nanoscience and nanotechnology including synthesis, processing, modeling, applications and assessment of toxicological potential of nanomatter. More than 55 contributions (invited talks, oral presentations, and posters), were presented by participants, from all over the world, representing universities, research institutions, and