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Nota di contenuto	Advances in Bioceramics and Porous Ceramics III; Contents; Preface; Introduction; BIOCERAMICS; Biodegradable Rare Earth Lithium Aluminoborate Glasses for Brachytherapy Use; Analytical Model for Prediction of Residual Stress in Zirconia-Porcelain Bi-Layer; Calcium-Aluminate Based Dental Luting Cement with Improved Sealing Properties-An Overview; Bioglass/Chitosan Composite as a New Bone Substitute; Development and Characterization of High Strength Porous Tissue Scaffolds; Grape® Technology or Bone-Like Apatite Deposition in Narrow Grooves Rapid Biomimetic Calcium Phosphate Coating on Metals, Bioceramics and Biopolymers at Room Temperature with 10xSBFChemically Bonded

Bioceramic Carrier Systems for Drug Delivery; POROUS CERAMICS; Low-O₂ Technology for Thermal Treatment of High Quality Porous Ceramics; Reticulated SiC Foam X-ray CT, Meshing, and Simulation; The Effects of -Si₃N₄ Seeding and -Si₃N₄ Powder Size on the Development of Porous -Si₃N₄ Ceramics; Development of Novel Microporous ZrO₂ Membranes for H₂/CO₂ Separation; Thermal Shock Properties of Porous Alumina for Support Carrier of Hydrogen Membrane Materials
In Situ Processing of Porous MgTi₂O₅ Ceramics with Pseudobrookite-Type Structure toward Third Generation Diesel Particulate Filter Materials
Aluminum Titanate Composites for Diesel Particulate Filter Applications; Weibull Analysis of 4-Point Flexure Strengths in Honeycomb Ceramic Structures (Cordierite and Silicon Carbide); Author Index

Sommario/riassunto

This issue contains the proceedings of the "Porous Ceramics: Novel Developments and Applications" and "Next Generation Bioceramics" symposia, which were held on January 24-29, 2010 at the Hilton Daytona Beach Resort and the Ocean Center in Daytona Beach, Florida, USA. The interaction between ceramic materials and living organisms is a leading area of ceramics research. Novel bioceramic materials are being developed that will provide improvements in diagnosis and treatment of medical and dental conditions. In addition, bioinspired ceramics and biomimetic ceramics have generated considerable i
