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Nota di contenuto	Traditional and Advanced Ceramics; Preface, Committee, Organizers and Sponsors; Table of Contents; Chapter 1: Ceramic Industrial Technology; Using Lime Mud Waste from Pulp Mill as an Additive in Brick Clay; Valorization of Mill Scale Waste by its Incorporation in Fired Clay Bricks; Study of Residual Stresses in Traditional Ceramics; Effect of Flux Materials on the Melting Characteristics of Ash Glaze; Strength Improvement of Porous Ceramics by the Surface Infiltration of Strengthening Materials; Improvement of Mechanical Properties of Lightweight Ceramics with the Addition of Alumina Fiber Construction of a Glaze DatabaseInfluence of Grog and Cement on Physical and Mechanical Properties of Unfired Clay Bricks; Properties of Dan Kwian, Sukhothai and Ratchaburi Pottery Clays Fired at 700 and 900 °C; Development of Carbon Emission Label for Local Ceramic Product; Preparation of Nanocomposite Particles from Typha

angustifolia and Egg Shells; Foam Glass Development Using Glass Cullet and Fly Ash or Rice Husk Ash as the Raw Materials; Preparation of Xylem-Imitating Porous Ceramic by Coconut Coir and Pottery Clay; Development of Ceramic Candle Filters by Slip Casting Process Characteristics of Automotive Glass Waste-Containing Gypsum Bodies Made from Used Plaster MouldEffects of Waste from HDPE Catalyst Process on Melting Behaviour and Thermal Properties of White Opaque Glazes; Utilization of Rice Husk Ash and Waste Sludge from Cutting Glass Manufacturing with Angthong Pottery; Preparation and Characterization of Fly Ash and Aluminium Waste Geopolymer; Effect of Firing Temperatures on Physical Properties and Phase Evolutions of Fine Stoneware Bodies; Low-Temperature Synthesis of Cordierite Using Magnesite
Zinc Oxide Nano Walls Synthesized by Chemical Vapor DepositionMetakaolin-Based Porous Geopolymer with Aluminium Powder; Chapter 2: Advanced Ceramics; Influence of N-Doped TiO2 Nanocomposite Film on Hydrophilic Property of Rubber Dipping Former Surface; Microwave-Assisted Hydrothermal Synthesis and Photocatalytic Properties of Cr and La-Codoped SrTiO3 Photocatalyst; Microwave Assisted Method on the Morphology of Aluminium Doped ZnO Nanocrystals; Morphology Controlled Flower-Like ZnO Particles Synthesized by Low Cost High Pressure Cooker
Photocatalytic Degradation of Humic Acid Using Fe3+ and N-Doped 3SnO2/TiO2 Thin Films Coated on Glass FibersInfluence of Specimen Dimensions and Temperature on the Debinding Behavior of Alumina Feedstock; A Study of Alumina Spray Dried Granules on Packing Density and Sintering Shrinkage of Simple and Complex Shape; Effect of Sintering Conditions on Mechanical and Optical Properties of 3Y-TZP Dental Ceramic; Effect of MnCO3 Doping on Microstructure and Electrical Properties of PSZT Ceramics; Enhancement of Dielectric Constants in Strontium Titanate through Mg and Al Doping Photocatalytic Performance of ZnO Nanoparticles Synthesized by Microwave-Assisted Process Using Zinc-Dust Waste as a Starting Material

Sommario/riassunto

Collection of selected, peer reviewed papers from the International Conference on Traditional and Advanced Ceramics (ICTA 2013), September 11-13, 2013, Bangkok, Thailand. The 59 are grouped as follows: Chapter 1: Ceramic Industrial Technology, Chapter 2: Advanced Ceramics, Chapter 3: Glass Science and Technology, Chapter 4: Ceramic Art and Design The 59 papers cover ceramic industrial technology, advanced ceramics, glass science and technology, and ceramic art and design. Among specific topics are improving the mechanical properties of lightweight ceramics by adding alumina fiber, the low-temp