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Titolo	Traditional and advanced ceramics : selected, peer reviewed papers from the International Conference on Traditional and Advanced Ceramics (ICTA 2013), September 11-13, 2013, Bangkok, Thailand / / edited by Somnuk Sirisoonthorn [and five others] ; Somnuk Sirisoonthorn, Sirithan Jiemsirilers, conference chairs ; organizers, The Thai Ceramic Society [and twenty-three others] ; sponsors, Asian Exhibition Services (AES) Ltd., Office of Naval Research, Siam Cement Public Company Limited
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
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 Mould Effects 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 Deposition Metakaolin-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 Fibers Influence 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