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Nota di contenuto	13th International Ceramics Congress - Part F; Preface; Table of Contents; Chapter 1: Geopolymers and Geocements; Fabrication and Characterization of Geopolymers from Japanese Volcanic Ashes; Addition of Ammonium Molybdate in Geopolymer Formulation; Alkali-Activated Fly Ash Foams - Synthesis, Chemo-Physical Properties and Microstructure Modeling; Effect of the Reactivity of the Alkaline Solution and the Metakaolin on the Geopolymer Formation; Ceramic Waste as New Precursors for Geopolymerization; Synthesis of Inorganic Polymers Using a CaO-Al <sub>2</sub> O <sub>3</sub> -FeO-SiO <sub>2</sub> Slag Studies of Natural and Accelerated Carbonation in Metakaolin-Based GeopolymerA Taguchi Approach for the Synthesis Optimization of Metakaolin Based Geopolymers; Mechanical Performances and Corrosion Resistance of Reinforced Fly Ash Geopolymer Mortars; The Influence of Short Fibres and Foaming Agents on the Physical and Thermal Behaviour of Geopolymer Composites; Different Treatment

Application of Illite Clay for Low Temperature Ceramics; btaining of  
 Lightweight Geopolymer Using Ash from Thermal Power Plants;  
 Application of Fly Ash-Based Geopolymer for Structural Member and  
 Repair Materials  
 Durability of Fly Ash Geopolymer Mortars in Corrosive Environments,  
 Compared to that of Cement MortarsChapter 2: Science and Technology  
 for Silicate Ceramics; Chapter 2-A - Functionalized Surfaces;  
 Antibacterial and Self-Cleaning Coatings for Silicate Ceramics: A  
 Review; Nanocomposite Photocatalyst Based on Layered Double  
 Hydroxides (LDHs) Associated with TiO<sub>2</sub>; Solar Reflectance of Glazed  
 Tiles; Chapter 2-B - Manufacturing; Development of a Semi-Wet  
 Process for Ceramic Floor Tile Granule Production; Determination of  
 Dry Grinding Properties of Floor Tile Wastes  
 Effect of Alternative Materials Added to the Plaster  
 CompositionPreparation of Exfoliated Melamine Modified  
 Mica/Polyamide-6 Nanocomposite and its Properties; Chapter 2-C -  
 New Products and Challenges; Towards Rational Design of Porcelain  
 Tile Glazes; New Ceramic Pigments for the Coloration of Ceramic  
 Glazes; Design of a Cool Color Glaze for a Solar Reflective Tile; Study of  
 the Variables that Lead to Hue Variations on Tiles Decoration Based on  
 Silicon Cylinder Technique Laser Engraving Method; Vitrification and  
 Sinter-Crystallization of Iron-Rich Industrial Wastes  
 Development of the Alternative Whitening System for Zirconium Silicate  
 Substitution in Porcelain Tile BodiesThe Effect of Lithium Alumina Silicate  
 Phases on Elastic Modulus of Porcelain Tiles; Chapter 2-D -  
 Characterization Studies; Characterization of Silicate Ceramics Using  
 Ultrasonics Test Method; Microstructure of Ceramic Brick Contaminated  
 by Magnesium Sulphate; Composition and Ceramic Characteristics of  
 Cretaceous Clays from Morocco; Study of Processing Techniques for  
 Nepheline Syenitic Raw Material Exploitation; Chapter 3: Ceramic  
 Refractories  
 Creep Testing of Refractories at Service Related Load Levels and  
 Application for Material Simulation

## Sommario/riassunto

Collection of selected, peer reviewed papers from the 13 th  
 International Ceramics Congress, part of CIMTEC 2014-13 th  
 International Ceramics Congress and 6 th Forum on New Materials, June  
 8-13, 2014, Montecatini Terme, Italy. The 45 papers are grouped as  
 follows: Chapter 1: Geopolymers and Geocements, Chapter 2: Science  
 and Technology for Silicate Ceramics, Chapter 2-A - Functionalized  
 Surfaces, Chapter 2-B - Manufacturing, Chapter 2-C - New Products  
 and Challenges, Chapter 2-D - Characterization Studies, Chapter 3:  
 Ceramic Refractories.