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Nota di contenuto	13th International Ceramics Congress - Part D; Preface; Table of Contents; Chapter 1: Electroceramics; Structural and High Frequency Dielectric Properties of Ba(ZrxTi1-x)O3 Films Prepared by Reactive Magnetron Sputtering Using Metal Targets; The Effects of the Annealing Conditions on the Dielectric Properties of the Sol-Gel Derived MgNb2O6 Thin Films; Characterization of Nanostructured Phases and Peculiar Phase Transitions in BNBT Lead-Free Piezoceramics Photoluminescence, Ferroelectric, Dielectric and Piezoelectric Properties of Sol-Gel-Derived Er-Doped KNN-LN Lead-Free Multifunctional Ceramics; Electromechanical Properties and Microstructure of Undoped K0.5Na0.5NbO3 Ceramics and KNbO3-NaNbO3 Crystals; How Can Be Realized High Piezoelectricity from Measuring Acoustic Wave Velocities ?; Effect of Isovalent B-Site Doping on Structural and Electrical Properties of Bismuth-Sodium-Titanate; Effectiveness of Magnetic Sheets in Suppressing Magnetic Leakage in Automobile Wireless Energy Transfer Systems

Metal-Organic Chemical Vapor Deposition of BiFeO<sub>3</sub> Based MultiferroicsHigh Crystalline Cu<sub>2</sub>O Thin Films Prepared by Electric Current Heating Using Copper Wire; Modelling of the Oxygen Transport through MIEC Membrane in Transient Stage; Correlation between Powder Characteristic and Microstructure Development of Y-Doped BaCeO<sub>3</sub>; Screen-Printed Ceramic Based MEMS Piezoelectric Cantilever for Harvesting Energy; The PiezoElectronic Switch: A Path to High Speed, Low Energy Electronics; Observing the Chiral Charge Ordering Transition in TiSe<sub>2</sub> ; Chapter 2: Optical and Photonic Ceramics Transparent Nano-Glass-Ceramic for Photonic Applications - Distribution of RE-Doping Elements in the Fluoride Nano-Crystals Analysed by XAS and HR-TEMGlass-Based Photonic Crystals: From Fabrication to Applications; Luminescence Intensity Enhancement of Copper Doped Hydronium Alunite Synthesized under Hydrothermal Conditions Using Sulfates Solution; The Investigations on Luminescence Characteristics and Influence of Doping and Co-Doping Different Rare Earth Ions in White Phosphorescence Materials Having Different Luminescent Centers Synthesis and Optical Characterization of M--Sialon (M=Ca, Ba, Sr) Doped by EuropiumInfluence of m and n Parameters of Ca--Sialon: Eu Solid Solution on Phosphor's Optical Properties; Persistent Luminescence Cr<sup>3+</sup> Doped Spinels and Use as Biomarker for In Vivo Imaging; Femtosecond Laser Processing of Glass Materials for Assembly-Free Fabrication of Photonic Microsensors; Rare Earth Doped Glasses for Displays and Light Generation; Keywords Index; Authors Index

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#### 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 24 papers are grouped as follows: Chapter 1: Electroceramics, Chapter 2: Optical and Photonic Ceramics.

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