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Nota di contenuto	13th International Ceramics Congress - Part C; Preface; Table of Contents; Chapter 1: Materials for Tribology Applications; Novel Super-Elastic Materials for Advanced Bearing Applications; Tribological Behaviour of Ceramic Hip Replacements; Carbon Based Coatings for Hermetic Compressor Applications; Effect of Different Form of Carbon Addition on the Wear Behaviour of Copper Based Composites; Chapter 2: High and Ultra High Temperature Ceramics; Amorphization, Field Activated Sintering and Superplastic Forming of UHTCs; Nonoxide High-Melting Point Compounds as Materials for Extreme Conditions Reaction Bonded Si ₃ N ₄ (RBSN)/BN Composites for Industrial Applications Development and Processing of SiAlON Nano-Ceramics by Spark Plasma Sintering; Two-Step Pressureless Sintering of Silicon Carbide-Based Materials; Dispersion of Carbon Nanotubes in Alumina Using a Novel Mixing Technique and Spark Plasma Sintering of the

Nanocomposites with Improved Fracture Toughness; Corrosion of Polymer-Derived Ceramics in Hydrofluoric Acid and Sodium Salts; Fracture Mechanics of Y₂O₃ Ceramics at High Temperatures; Development of Cordierite Ceramics from Natural Raw Materials First Principles Calculations of Interfaces in Ultra High Temperature Ceramics Influence of B₄C, SiC and Si₃N₄ Additions on Microstructures and Selected Properties of Titanium Nitride Matrix Materials Obtained by HPHT Method; Chapter 3: Max Phases; Critical Review of the Oxidation of Cr₂AlC; Study of the Thermal Stability and Mechanical Characteristics of MAX Phases of Ti-Al-C(N) System and their Solid Solutions; Chapter 4: Fiber Composites; Heat-Resistant Inorganic Fibers; Poly-Siloxane Impregnation and Pyrolysis of Basalt Fibers for the Cost-Effective Production of CFCCs Multilayered Fiber-Reinforced Oxide Composites Produced by Lamination of Thermoplastic Prepregs Evaluation of Wearing Properties of Polyamide 66 Containing Glass Wool; Keywords Index; Authors Index

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 21 papers are grouped as follows: Chapter 1: Materials for Tribology Applications, Chapter 2: High and Ultra High Temperature Ceramics, Chapter 3: Max Phases, Chapter 4: Fiber Composites.