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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; NOVEL, GREEN, AND STRATEGIC PROCESSING ANDMANUFACTURING TECHNOLOGIES; Optimized Shaping Process for Transparent Spinel Ceramic; ABSTRACT; INTRODUCTION; MATERIAL PREPARATION; UNIAXIAL HYDRAULIC PRESSING; THERMAL PROCESSING; SAMPLE CHARACTERIZATION; SUMMARY AND OUTLOOK; REFERENCES; Thermal Diffusion Coatings for Wear-Resistant Components for Oil and Gas Industry; ABSTRACT; INTRODUCTION; BASIC PRINCIPLES OF THERMAL DIFFUSION BORONIZING PROCESS; EXPERIMENTAL; Starting Materials and Processing; Testing and Evaluation; RESULTS AND DISCUSSION CONCLUSIONACKNOWLEDGEMENT; REFERENCES; POLYMER DERIVED CERAMICS AND COMPOSITES; Polymer-Derived Ceramics for Development of Ultra-High Temperature Composites; ABSTRACT; I.

INTRODUCTION; II. EXPERIMENTAL; II.1 Woven Fabric HfB₂-SiC Matrix Laminate Fabrication; II.2 Unidirectional Tape HfB₂-SiC Matrix Laminate Fabrication; II.3 CMC/PMC Hybrid Fabrication; III. RESULTS AND DISCUSSION; III.1 Woven SiC Fabric Reinforced UHTCs; III.2 Filament Wound SiC Fiber Reinforced UHTCs; III.3 CMC and Ceramic Components for Hybrid TPS; IV. CONCLUSION; ACKNOWLEDGEMENTS
Siliconboronoxycarbide (SiBOC) Foam from Methyl Borosiloxane ABSTRACT; INTRODUCTION; EXPERIMENTAL; Materials; Preparation of SiBOC foam from borosiloxane; Characterization; RESULTS AND DISCUSSION; Synthesis and Characterization of methylborosiloxane; Siliconboronoxycarbide foam; CONCLUSIONS; REFERENCES; Synthesis of a Porous SiC Material from Polycarbosilane by Direct Foaming and Radiation Curing; ABSTRACT; INTRODUCTION; EXPERIMENTAL PROCEDURE; RESULTS AND DISCUSSION; CONCLUSION; REFERENCES
Fabrication of SiOC/C Coatings on Stainless Steel using Poly(Phenyl Carbosilane) and their Anti-Corrosion Properties ABSTRACT; INTRODUCTION; EXPERIMENTAL; Coating process; Characterization of the films; Corrosion testing; RESULTS AND DISCUSSION; Chemical structure of SiOC/C; Oxide layer between the SiOC/C film and the substrate; Microscopic analysis of the interface between the SiOC/C film and the substrate; Corrosion test and microstructure of the test surface; CONCLUSIONS; ACKNOWLEDGMENT
Photo Luminescent Properties of Polymer Derived Ceramics at Near Stoichiometric SiO₂-xSiC-y(H) Compositions ABSTRACT; INTRODUCTION; EXPERIMENTAL PROCEDURE; RESULTS AND DISCUSSION; SUMMARY; ACKNOWLEDGEMENTS; REFERENCES; Synthesis of Hierarchical Porous SiCO Monoliths from Pre-ceramic Polymer Impregnated with Porous Templates; ABSTRACT; INTRODUCTION; EXPERIMENTAL PROCEDURE; Porous SiCO ceramics prepared from PU sponge or wood biomass; Characterization; RESULTS AND DISCUSSION; XRD analysis; FTIR analysis; SEM analysis; N₂ adsorption isotherms and pore size distributions; CONCLUSIONS
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Sommario/riassunto

Contains collection of papers from the below symposia held during the 10th Pacific Rim Conference on Ceramic and Glass Technology (PacRim10), June 2-7, 2013, in Coronado, California 2012: Novel, Green, and Strategic Processing and Manufacturing Technologies
Polymer Derived Ceramics and Composites
Advanced Powder Processing and Manufacturing Technologies
Synthesis and Processing of Materials Using Electric Fields/Currents
