| Record Nr. | UNISA996212919403316 |
|-------------------------|---|
| Titolo | Surfaces, interfaces, and the science of ceramic joining [[electronic resource]] : proceedings of the 106th Annual Meeting of the American Ceramic Society, Indianapolis, Indiana, USA (2004) / / editors K. Scott Weil, Ivar E. Reimanis, Charles A. Lewinsohn |
| Pubbl/distr/stampa | Westerville, Ohio, : American Ceramic Society, c2005 |
| ISBN | 1-280-67544-6 9786613652379 1-118-40714-8 1-118-40713-X |
| Descrizione fisica | 1 online resource (196 p.) |
| Collana | Ceramic transactions ; ; v. 158 |
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| Disciplina | 666 |
| Soggetti | Ceramics - Surfaces Ceramic to metal bonding Interfaces (Physical sciences) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "This volume contains the proceedings of 'Surfaces, Interfaces, and the Science of Ceramic Joining,' a symposium held in Indianapolis, IN, April 18-21, 2004, as part of the 106th Annual Meeting of The American Ceramic Society"Pref. |
| Nota di bibliografia | Includes bibliographical references and indexes. |
| Nota di contenuto | Surfaces, Interfaces, and the Science of Ceramic Joining; Contents; Preface; Surface and Interfacial Phenomena; The Role of Interfacial Phenomena in Wetting-Bonding Relationship in Al/Ceramic Couples; Interface Structures and Diffusion Paths in SiC/Metal Couples; Photocatalytic Titania Coatings by a Low Temperature Sol-Gel Process; Effect of Surface Treatment on Chiral and Achiral SrTiO3 Surface Morphology and Metal Thin Film Growth; Surface Characterization of Low-Temperature Processed Titania Coatings Produced on Cotton Fabrics; Thermodynamics of Refractories for Black Liquor Gasification MechanicsAn Investigation of Wettability, and Microstructure in Alumina Joints Brazed with Ag-CuO-TiO2; An Engineering Test Useful in |

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| | Developing Glass Seals for Planar Solid Oxide Fuel Cells; Fracture in Nb/Al2O3 Particulate Composites; Practical Adhesion and Cohesion Assessments of Al2O3 (0.1 \m) Oxide Layer on Top of AlN Substrates by Microscratch Technique; Wetting and Mechanical Characteristics of the Reactive Air Braze for Yttria-Stabilized Zirconia (YSZ) Joining; Computational Analysis of Residual Stress for Si3N4-Al2O3 Joint Using Polytypoid Functional Gradients; Joining Joining Si3N4 to an Iron Aluminide Alloy Using Soft InterlayersGlass Sealing in Planar SOEC Stacks and Chemical Stability of Seal Interfaces: |
|--------------------|--|
| | Pd-Modified Reactive Air Braze for Increased Melting Temperature; Evaluation of Gold ABA Braze for Joining High Temperature Electrochemical Device Components; TiO2-Modified Ag-CuO Reactive Air Brazes for Improved Wettability on Mixed Ionic/Electronic Conductors; Microstructure, Melting and Wetting Properties of Pd-Ag- CuO Air Braze on Alumina; Author Index; Keyword Index |
| Sommario/riassunto | This proceedings offers information for those interested in the fundamental aspects of ceramic surface and interfacial phenomenon such as wetting, adhesion, chemical reactivity, and structure-property relationships, and the influence of these factors on the nature of bonding/joining of ceramic materials. |