Record Nr. UNINA9910830823803321 Characterization and control of interfaces for high quality advanced **Titolo** materials III [[electronic resource]]: proceedings of the Third International Conference on Characterization and Control of Interfaces for High Quality Advanced Materials, Kurashiki, Japan (2009) / / edited by Kevin Ewsuk ... [et al.] Hoboken, N.J., : John Wiley & Sons, Inc., 2010 Pubbl/distr/stampa **ISBN** 1-282-84914-X 9786612849145 0-470-91714-8 0-470-91713-X Descrizione fisica 1 online resource (419 p.) Collana Ceramic transactions;; v. 219 Altri autori (Persone) EwsukKevin Disciplina 666 Soggetti Interfaces (Physical sciences) **Nanoparticles** Surfaces (Technology) Ceramic materials Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Characterization and Control of Interfaces for High Quality Advanced Materials III: Contents: Preface: JOINING TECHNOLOGY FOR NEW METALLIC GLASSES AND INORGANIC MATERIALS; Devitrification Behavior and Crystal-Glassy Mixed-Phase Structures Observed in Partially Crystallized Cu-Based Glassy Alloys; Direct Bonding of Copper to Alumina and Its Characterization; Synthesis and Characterization of Materials Harmonized with the Environment-Proton Conductive Silica-Based Hybrid Membranes for Fuel Cells at Intermediate Temperatures Formation of Bone-Like Hydroxyapatite on Surface-Modified Bulk Metallic Glass Using a Hydrothermal-Electrochemical MethodLow Temperature Bonding of Bulk Metallic Glass Using an Ultrasonic Process; Microstructure and Properties of a Ni-Based Metallic Glass

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Sommario/riassunto

This proceedings volume features 59 peer-reviewed papers from ICCCI2009 on interface characterization and control technology, powder and composite processing, joining, the control of airborne particulates, new metallic glasses, and interface phenomena at high temperature. ICCCI2009 was supported by the Global COE Program "Center of Excellence for Advanced Structural and Functional Materials Design" lead by Professor Tomoyuki Kakeshita at Osaka University, the Project on Joining Technology for New Metallic Glasses and Inorganic Materials, the Institute of Materials Research (IMR) of Tohoku Univ