

|                         |  |
|-------------------------|--|
| 1. Record Nr.           | UNINA9910787245303321  |
| Titolo                  | 6th Forum on New Materials : proceedings of the 6th Forum on New Materials, part of CIMTEC 2014-13th International Ceramics Congress and 6th Forum on New Materials, June 15-19, 2014, Montecatini Terme, Italy. Part D // edited by Pietro Vincenzini, World Academy of Ceramics and National Research Council, Italy ; co-edited by Aldo R. Boccaccini, University of Erlangen-Nuremberg, Germany, Danilo de Rossi, University of Pisa, Italy  |
| Pubbl/distr/stampa      | Faenza, Italy : , : TTP, , [2014]<br>©2014   |
| ISBN                    | 3-03826-693-0  |
| Descrizione fisica      | 1 online resource (136 p.)   |
| Collana                 | Advances in science and technology, , 1662-8969 ; ; volume 96  |
| Disciplina              | 620.14   |
| Soggetti                | Ceramics<br>Ceramic materials<br>Ceramic engineering   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Description based upon print version of record.  |
| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | 6th Forum on New Materials - Part D; Preface; Table of Contents; Chapter 1: Advances in Biomaterials; Macromolecular Crowding: The Next Frontier in Tissue Engineering; Facile In Situ Synthesis and Impregnation of Silver Nanoparticles in a Hydrophobic Polymer for Antimicrobial Biomaterials; Diopside Glass-Ceramics for Dental and Biomedical Applications; Bioactive and Biocompatible Silica/Pseudowollastonite Aerogels; Characterization and Biocompatibility Evaluation of Hydroxyapatite Doped with Silver and/or Fluorine<br>Effect of Titanium Dioxide Nanoparticles on Mechanical and Thermal Properties of Poly(Lactic Acid) and Poly(Butylene Succinate) Blends<br>Natural Polymers as Heat and Moisture Exchange Devices for Medical Applications; Electrochemical Detection of Bacteria Using Graphene Oxide Electrodeposited on Titanium Implants; Development of Novel Mesoporous Silica-Based Bioactive Glass Scaffolds with Drug Delivery Capabilities; Mechanical Behavior of Alumina Toughened |

Zirconia Nanocomposites with Different Alumina Additions  
Residual Thermal Stress of Spinell Based-Ceramic Infiltrated with Glass  
Rich in Lanthanum  
Chapter 2: Wearable and Implantable Sensors and  
Body Sensor Networks; Tools for the Care of Elderly People Applying  
Information and Communications Technology to Fall Risk Assessment;  
On-Body Chemo/Bio-Sensing - Opportunities and Challenges;  
Fluctuations in Frequency Composition of Neural Activity Observed by  
Portable Brain Intention Detection Device; High-Density Implantable  
Microelectrode Arrays for Brain-Machine Interface Applications  
Soft Conductive Polymer Dry Electrodes for High-Quality and  
Comfortable ECG/EEG Measurements  
Power Management for Vibrational  
Energy Harvesters; Hybrid Energy Harvesting Using Electroactive  
Polymers Combined with Piezoelectric Materials; Keywords Index;  
Authors Index

---

Sommario/riassunto

Collection of selected, peer reviewed papers from the 6 th Forum on  
New Materials, part of CIMTEC 2014-13th International Ceramics  
Congress and 6 th Forum on New Materials, June 15-19, 2014,  
Montecatini Terme, Italy. The 18 papers are grouped as follows:  
Chapter 1: Advances in Biomaterials, Chapter 2: Wearable and  
Implantable Sensors and Body Sensor Networks.

---