

1. Record Nr.	UNINA9910460058503321
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] ©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 Ceramic materials Ceramic engineering Electronic books.
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 Effect of Titanium Dioxide Nanoparticles on Mechanical and Thermal Properties of Poly(Lactic Acid) and Poly(Butylene Succinate) Blends 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.
