Record Nr. UNINA9910785904803321 Nanobiomaterials in clinical dentistry [[electronic resource] /] / edited **Titolo** by Karthikeyan Subramani, Waqar Ahmed, James K. Hartsfield, Jr Pubbl/distr/stampa Oxford,: William Andrew, 2013 **ISBN** 1-4557-3129-3 1-283-86848-2 Edizione [1st ed.] Descrizione fisica 1 online resource (542 p.) Collana Micro & nano technologies series Altri autori (Persone) SubramaniKarthikeyan AhmedWaqar HartsfieldJames K., Jr. 617.6 Disciplina 617.700284 Soggetti Nanotechnology Nanostructured materials Biomedical engineering **Dentistry** Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto section 1. Introduction -- section 2. Nanoscale materials and their applications in dental biomaterials -- section 3. Nanobiomaterials in preventive and restorative dentistry -- section 4. Nanobiomaterials in orthodontics -- section 5. Nanobiomaterials in prosthodontics -section 6. Nanobiomaterials in periodontics, implant dentistry, and dental tissue engineering -- section 7. Nanobiomaterials in endodontics -- section 8. Salivary diagnostics and nanoparticles as dental drug delivery systems and their biocompatibility/toxicity. Sommario/riassunto New nanomaterials are leading to a range of emerging dental treatments that utilize more biomimetic materials that more closely duplicate natural tooth structure (or bone, in the case of implants). This book brings together an international team of experts from the fields of materials science, nanotechnology and dentistry, to explain these new materials and their applications for the restoration, fixation, replacement, or regeneration of hard and soft tissues in and about the

oral cavity and craniofacial region. The main topics covered include