

# Advanced Ceramics For Dentistry Chapter 2 Teeth

**Hamid Reza Rezaie,Hassan Beigi Rizi,Mojdeh Mahdi Rezaei Khamseh,Andreas Öchsner**

**Advanced Ceramics for Dentistry** James Shen,2013-09-05 The growth of implant and fixed prosthodontics practices in dentistry has created a rapidly increasing demand for advanced ceramics and ceramic processes. Innovations in ceramics and ceramic processes are vital to ensure reliable and affordable dental-restoration solutions with aesthetically pleasing outcomes. The work aims to engage the bioceramics and engineering communities to meet the challenges of modern dental restoration using advanced ceramics. Incorporating fundamental science, advanced engineering concepts, and clinical outcomes, the work is suitable for bioceramicists, ceramics manufacturers, dental clinicians and biologists. - State-of-the-art-coverage encompasses bioresorbable ceramics for bone regeneration and bioactivating surfaces of inert, high-strength ceramics for implantation, keeping research knowledge appropriately updated - Discusses transition from the baseline stable and physically stiff ceramics research into engineering of highly coherent laminate composites for prosthetic crowns and bridges - Showcases current feasible techniques for producing, in cost-effective and materials-saving ways, long-lasting individualized ceramic components with biocompatibility, complexity and high precision

*Advanced Ceramics for Dentistry* Haifeng Chen,Yihong Liu,2013-09-05 Teeth are vital organs of vertebrates of which the main function is to bite and chew food into pieces. Human teeth are always an essential concern in appearance and beauty, and they play an important role in everything from word pronunciation to the protection of support organs. The right anatomical shape and arrangement of teeth are the basis for these functions. Each tooth contains three hard calcified tissues, including enamel, dentin, and cementum, and one soft tissue, pulp, which contains blood vessels, nerves, and is connected with the periodontal tissue by a narrow root canal. The development, formation, composition, microstructure, optical and mechanical properties, and common defects of and damages to human teeth are reviewed in this chapter. This knowledge is of importance in restorative dentistry for designing preventive treatments to maintain tissue integrity and to replace damaged tissues with synthetic materials (e.g. ceramics, which mimic the natural appearance and performance of teeth).

Advanced Ceramics for Dentistry Jing Zhao,Xinzhi Wang,2013-09-05 Tooth defects and missing teeth are common oral diseases that threaten the patient's health, aesthetics, and self-confidence. Prosthodontics is a dental specialty with a long history of providing artificial prostheses to restore or replace the damaged or missing teeth and dentition of patients. Based on type and degree, there are three main categories of tooth damage: tooth defect, partial edentulism, and complete

edentulism. Various prosthetic treatments are available for restoration, and each of them has its specific advantages and limitations. This means that, the patient's oral and general health condition, and the individual's expectation. In that the decision to pursue prosthetic treatment should be made by fully understanding the characteristics of the defects, background knowledge of the characteristics of tooth defects and edentulism are introduced in combination with commonly used prostheses. Despite the fact that there are no omnipotent prostheses, some general guidelines of prostheses selection are given.

**Advanced Ceramics for Dentistry** Belinda Reinhardt, Thomas Beikler, 2013-09-05 Titanium and titanium alloys are considered standard materials for dental implants with very well documented, high rates of success and survival. Potential immunologic and aesthetic drawbacks associated with titanium implants have resulted in the development of alternatives like zirconia-based dental implants. Zirconia seems to be a suitable implant material because of its tooth-like color, mechanical properties, biocompatibility, and low plaque affinity. However, the use of zirconia in clinical implant dentistry is still controversial. The aim of this chapter is to review clinical and research articles conducted on zirconia dental implants, and to provide information on zirconia dental implant osseointegration, mechanical strength, and microbiology. Compared to titanium-based dental implants zirconia implants show promising results in clinical studies. However, there are a limited number of long-term studies on the outcome of zirconia implants and additional clinical research needs to be done to fully appraise zirconia-based dental implants.

**Advanced Ceramics for Dentistry** Simon Jegou Saint-Jean, 2013-09-05 Feldspathic porcelains, leucite, and lithium disilicate glass-ceramics are important materials used in restorative dentistry for their biocompatibility, excellent aesthetic properties, good mechanical strength, and relative ease of use. As a general rule in clinical practice, the choice of material should be dictated by the specific clinical situation. It depends on the space available to build the aesthetic and functional restoration, but also on the nature of the underlying tooth or restorative structure. The best aesthetic results are obtained with feldspathic porcelain restorations directly resin-bonded to the tooth, whereas the best function is obtained with the stronger and tougher fully anatomical or veneered glass-ceramic crowns and bridges. The main limitation with these ceramics is their insufficient strength for use as posterior crowns and bridges. Possible means to obtain aesthetically pleasing and long-term performing posterior restorations are the development of stronger glass-ceramics, the use of translucent colored zirconia, or the use of the new class of more elastic hybrid polymer-ceramic materials.

*Advanced Ceramics for Dentistry* Yihong Liu, James Zhijian Shen, 2013-09-05 Fractographic analysis is a useful tool for finding fracture origins that is necessary for improving the reliability of ceramic restorations. The general analysis begins with the determination of fracture patterns and origins. The crack propagation markings found by examination of fracture surfaces allow one to follow crack paths and to trace back to an origin, including fracture mirror, hackle, Wallner line, arrest

line, and compression curl. This method is introduced and applied to define the origins of common clinical failures of ceramic dental prostheses. They are classified as several major types, namely, cracking initiated at the margin or at occlusal contacts, and porcelain chipping or delamination. The fracture origin is always found near the spot where the highest tensile stress concentration accumulates, and/or microscopic defects or flaws are located nearby. The fracture of ceramic dental restorations may initiate at micro-defects in the porcelain or ceramic body that are introduced during the materials fabrication process or after clinical adjustment.

**Advanced Ceramics for Dentistry** James Zhijian Shen, Jenny Fäldt, 2013-09-05 Bioactive ceramics are used as bulk, porous bodies, or surface-active layers on dental implants and as morphogenetically active scaffolds inserted into the jawbone. While the former has been popularly applied as artificial dental roots for recovering the function of lost teeth, the latter are increasingly used for regenerating bone tissue. In both cases, the common fundamental basis is to understand how the new bone is formed on the surfaces of introduced foreign bodies, integrated together with the autologous bone through complex biological processes and cell-materials interactions. Efforts are thus made in this chapter to elucidate the biological origins of those phenomenological terms that have often eluded satisfactory scientific definition on this particular topic of practice-motivated science. Bone-growth mechanisms are discussed together with possible characterization and quantification methods. The role of surface morphology and multi-scale structures in promoting bone growth is emphasized. Based on the state-of-the-art understanding all the way down to molecular, cellular, and genetic levels, bioactive ceramics are categorized and presented in relation to their potential applications in dentistry. The design concept of implants for enhancing early healing and for enabling immediate loading is also discussed.

**Advanced Dental Biomaterials** Zohaib Khurshid, Shariq Najeeb, Muhammad Zafar, Farshid Sefat, 2019-05-24 Advanced Dental Biomaterials is an invaluable reference for researchers and clinicians within the biomedical industry and academia. The book can be used by both an experienced researcher/clinician learning about other biomaterials or applications that may be applicable to their current research or as a guide for a new entrant into the field who needs to gain an understanding of the primary challenges, opportunities, most relevant biomaterials, and key applications in dentistry. - Provides a comprehensive review of the materials science, engineering principles and recent advances in dental biomaterials - Reviews the fundamentals of dental biomaterials and examines advanced materials' applications for tissues regeneration and clinical dentistry - Written by an international collaborative team of materials scientists, biomedical engineers, oral biologists and dental clinicians in order to provide a balanced perspective on the field

**Advanced Ceramics for Dentistry** Corrado Piconi, Saverio Giovanni Condo, Tomaž Kosmač, 2013-09-05 This chapter reviews the structure, mechanical properties, and biocompatibility of load-bearing ceramics used in dentistry. The development of this class of ceramic biomaterials is traced from the late sixties when alumina was introduced in dentistry.

The literature on both polycrystalline and single crystal alumina dental implants is reviewed. The use of alumina declined when zirconia-toughened ceramics were introduced in orthopedics in the eighties. The use of yttria partially-stabilized tetragonal zirconia (Y-TZP) in dentistry allowed the production not only of dental implants and abutments, but also a broad range of load-bearing fixed partial dentures, such as multi-unit bridges and crowns, thanks to the development of CAD/CAM technology. Today, the trend is to use alumina and zirconia ceramics for making more aesthetic parts by improving their optical translucency.

*Advanced Ceramics for Dentistry* Dag Henrik Bergsjö, Matts Andersson, Rikard Söderberg, Johan Carlson, 2013-09-05 In the early 1980s the industrialization of products based on the osseointegration principle discovered by Professor Per-Ingvar Brånemark started. The industrialization system has since gone through digitalization and automation, where now computer-aided design, design, and milling are standard features of a highly flexible production process for customized products. Lab production and central production are two ways of producing dental products. The central production principle offers the potential for better economy of scale and turnover of products, and the local dental lab can offer a higher degree of customization and personal service. Quality of dental products has always been of central importance and continues to grow. New technology and a highly digital treatment process are open for even better quality by the use of production simulations and tolerance analysis in all parts of the manufacturing process.

**Advanced Technical Ceramics Directory and Databook** Robert John Hussey, Josephine Wilson, 2012-09-08 *Advanced Technical Ceramics Directory and Databook* is a world-wide directory of the properties and suppliers of advanced technical ceramic material used in, or proposed for, numerous engineering applications. The information is subdivided into sections based on the class of ceramic, e.g. Nitrides-silicon nitride, sialon, boron carbide, aluminium nitride etc. Each section consists of a short introduction, a table comparing basic data and a series of data sheets. The book adopts standardised data in order to help the reader in finding and comparing different data and identifying the required information. It is designed to complement the existing Chapman & Hall publications on high performance materials.

Phillips' Science of Dental Materials Kenneth J. Anusavice, DMD, PhD, Chiayi Shen, H. Ralph Rawls, 2012-09-27 Learn the most up-to-date information on materials used in the dental office and laboratory today. Emphasizing practical, clinical use, as well as the physical, chemical, and biological properties of materials, this leading reference helps you stay current in this very important area of dentistry. This new full-color edition also features an extensive collection of new clinical photographs to better illustrate the topics and concepts discussed in each chapter. Organization of chapters and content into four parts (General Classes and Properties of Dental Materials; Auxiliary Dental Materials; Direct Restorative Materials; and Indirect Restorative Materials) presents the material in a logical and effective way for better comprehension and readability. Balance between materials science and manipulation bridges the gap of knowledge between dentists and lab technicians. Major

emphasis on biocompatibility serves as a useful guide for clinicians and educators on material safety. Distinguished contributor pool lends credibility and experience to each topic discussed. Critical thinking questions appearing in boxes throughout each chapter stimulate thinking and encourage classroom discussion of key concepts and principles. Key terms presented at the beginning of each chapter helps familiarize readers with key terms so you may better comprehend text material. NEW! Full color illustrations and line art throughout the book make text material more clear and vivid. NEW! Chapter on Emerging Technologies keeps you up to date on the latest materials in use. NEW! Larger trim size allows the text to have fewer pages and makes the content easier to read.

**Dental Laboratory Procedures** Sanjna Nayar,2021-08-24 -Detailed dental implant laboratory procedures for multiple clinical conditions with recent advances -Extensive chapter on virtual laboratory -Laboratory disinfection protocol for COVID-19 -Detailed discussion of metal ceramics and all ceramics -More than 3400 coloured photos and illustrations -More than 100 flowcharts and diagrams for easy understanding -Mouthguards and TMJ appliances -Digital version and videos for enhanced learning -Comprehensive laboratory reference for prosthodontists and clinicians

Dental Materials-E-Book John M. Powers,John C. Wataha,2012-02-08 - New and updated discussions address advances in areas such as esthetics, ceramics, and materials for dental impressions and dental implants. - Full-color illustrations improve clarity and realism, including for example, color photos of esthetics and bleaching showing the differences in shades of color. - More than 100 new illustrations and photographs include images showing the materials being used and applied.

**A Review on Dental Materials** Hamid Reza Rezaie,Hassan Beigi Rizi,Mojdeh Mahdi Rezaei Khamseh,Andreas Öchsner,2020-06-25 This book discusses the current biomaterials used for dental applications and the basic sciences underpinning their application. The most critical structures in the oral cavity are the teeth, which play a central role in speaking, biting, chewing, tasting and swallowing. Teeth consist of three types of tissue: the cementum, enamel and dentin, with bone and gingival tissue serving as supporting structures. Caries, tooth wear, trauma and mechanical defects can lead to severe facial conditions; however, correcting these defects remains a challenge for scientists and dentists. Presenting insights from a broad range of disciplines, including materials science, biology, physiology and clinical science, this book provides a timely review of the principles, processing and application of dental materials.

*Advanced Ceramics for Dentistry* Tanja Lube,Robert Danzer,2013-09-05 Ceramic materials are frequently and increasingly used in dentistry. However, they are very brittle, the tensile strength has a large scatter, and their total fracture strain is very low. The strength depends on the loaded volume and on time under load. These properties cause special needs with respect to design, manufacturing tolerances, and handling, in production as well as in application. In ceramics, strength is limited by small flaws that are either caused by the processing of the material or by the machining of surfaces of specimens and components. This chapter introduces the principles of linear elastic fracture mechanics as the basis for

understanding brittle fracture, and then presents fracture statistics. These topics are followed by an example for designing with ceramics. In subsequent sections, several other damage mechanisms and their relevance in dental applications will be discussed. The chapter closes with sections that deal with mechanical testing of ceramics and fractography.

*Phillips' Science of Dental Materials E-Book* Chiayi Shen,H. Ralph Rawls,Josephine F. Esquivel-Upshaw,2021-05-13  
\*\*Selected for Doody's Core Titles® 2024 with Essential Purchase designation in Dentistry\*\* Keep current with the evolving technology of dental materials! Phillips' Science of Dental Materials, 13th Edition provides comprehensive, up-to-date information on the materials used in cosmetic and restorative procedures in dentistry. It introduces the physical and chemical properties that are related to selection and use of dental biomaterials, including their composition, mechanical properties, manipulative variables, and the performance of dental restorations and prostheses. This edition adds three new chapters and hundreds of new full-color photographs. Written by dental scientists Chiayi Shen and H. Ralph Rawls along with prosthodontist Josephine Esquivel-Upshaw, this leading text/reference helps dentists select the right materials for oral procedures and helps dental labs ensure high-quality restorations. - 500 full-color photos and illustrations show concepts, dental instruments, and restorations. - Key terms are defined at the beginning of each chapter, covering terminology related to dental biomaterials and science. - Critical thinking questions stimulate thinking and emphasize important concepts and principles. - Logical, five-part organization of chapters makes the content easier to read and understand, with units on General Classes and Properties of Dental Materials, Direct Restorative Materials, Indirect Restorative Materials, Fabrication of Prostheses, and Assessing Dental Restorations. - Balance between materials science and manipulation bridges the gap of knowledge between dentists and lab technicians. - Major emphasis on biocompatibility serves as a useful guide to the principles and clinical implications of restorative materials safety. - Diverse and respected pool of contributors lends credibility and experience to each dental science topic. - NEW! Three new chapters are added: Digital Technology in Dentistry, In Vitro Research of Dental Materials, and Clinical Research of Restorations.

**Current Trends on Glass and Ceramic Materials** Sooraj H. Nandyala José D. Santos, José D. Santos,2013-01-22  
Biomaterials created from innovative glass and bioceramic research are emerging as a precursor to several developments useful for solving a wide variety of industry and health related issues. Current Trends on Glass and Ceramic Materials is a review on the latest developments in glass and ceramic materials for technological applications along with biomedical applications in vivo. The volume serves as a useful reference to readers interested in learning about this area of materials science and its multidisciplinary array of applications

Advanced Ceramics for Dentistry Erik Adolfsson,James Zhijian Shen,2013-09-05 The mechanical reliability and aesthetic appearance of ceramic dental prostheses are strongly influenced by the presence of defects. When several processes are used during fabrication of ceramic dental prostheses, additional defects are unavoidably introduced in each process step;

these are in addition to the ones that already exist in raw materials. To avoid the degeneration of material performance by the accumulated defect population, process optimization is needed to minimize the defects introduced. Standardized mechanical evaluations are usually performed on samples with carefully prepared surfaces in order to minimize the influence from the defects usually induced by fabrication processes. The results from such mechanical evaluation indicate the strength level that is achievable by the material with the given population of bulk defects. In order to avoid a reduction in the performance of the ceramic material by the additional defects normally induced by the fabrication process, it must be understood how these defects are introduced, and solutions must be found to reduce their size and frequency through modifications of the material and processes. The aim of this chapter is to elucidate the sources of defects that are common for ceramic dental prostheses and to determine how to minimize them.

Craig's Restorative Dental Materials John M. Powers, Ronald L. Sakaguchi, 2006 Presenting a comprehensive exploration of restorative dental materials, this book provides the information readers need to know to correctly use dental materials in the clinic and dental laboratory. Ranging from fundamental concepts to advanced skills, it also provides the scientific basis for technical procedures and manipulation of materials.

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