

Advances In Glass Ionomer Cements

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Interface Oral Health Science 2016
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Applied Dental Materials
American Book Publishing Record
Tooth-colored Restoratives
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Operative Dentistry
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Emerging Trends in Oral Health Sciences and Dentistry
Dental Materials in Vivo
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Contemporary Restoration of Endodontically Treated Teeth
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Compendium of Continuing Education in Dentistry
Materials for the Direct Restoration of Teeth
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Advances in Operative Dentistry: Contemporary clinical practice
Bioactive and Therapeutic Dental Materials
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Advances in Glass-ionomer Cements

Emerging Trends in Oral Health Sciences and Dentistry is the second book on Oral Health Science. The first book is Oral Health Care-Pediatric, Research, Epidemiology and clinical Practices and Oral Health Care-Prosthodontics, Periodontology, Biology, Research and systemic Conditions published in February 2012. The present book is a reflection of the progress in Oral Health Sciences, practices and dentistry indicating the direction in which this stream of knowledge and education is likely to head forward. The book covers areas of General Dentistry, Paediatric and Preventive Dentistry, Geriatric and Prosthodontics, Orthodontics, Periodontology, Conservative Dentistry and Radiology and Oral Medicine.

Interface Oral Health Science 2016

Natural Aesthetics with Composite Resin

Applied Dental Materials

American Book Publishing Record

This textbook covers all aspects of materials science relevant to the practice of dentistry. It is aimed primarily at undergraduatedental students, although it will

also be useful for practising dentists, dental technicians and dental assistants. The 9th edition has been extensively revised to include the many advances in dental materials and their use that have occurred during the past nine years. The chapters on Resin-based filling materials and Adhesive restorative materials have been expanded significantly with new coverage of fibre reinforcement of composite structures and polymerisable luting agents. A brand new chapter has been added on endodontic materials.

Tooth-colored Restoratives

Bioceramics are an important class of biomaterial. Due to their desirable attributes such as biocompatibility and osseointegration, as well as their similarity in structure to bone and teeth, ceramic biomaterials have been successfully used in hard tissue applications. In this book a team of materials research scientists, engineers and clinicians bridge the gap between materials science and clinical commercialization providing integrated coverage of bioceramics, their applications and challenges. Medical-grade ceramic biomaterials are introduced in the context of hard tissue applications, followed by a review of the evolution and commercial perspectives of bioceramics for dental bone and joint replacement applications. Specific consideration is given to the regulatory and commercial issues of ceramic biomaterials. The main challenges and future development of ceramic biomaterials and engineering technologies are also explored. With a strong focus on the dialogue between surgeons, industrials, engineers, material scientists and biologists, as well as lessons learned from the last 20 years of clinical use, this book is a valuable resource for researchers and engineers working towards long-lasting, reliable, customized biomedical ceramic and composites devices. Edited by a team of experts with expertise in industry and academia Compiles the most relevant aspects on regulatory issues, standards and engineering of bioceramic medical devices inspired by commercial and clinical needs Introduces bioceramics, their evolution and applications in hard tissue engineering and medical devices

Phillips' Science of Dental Materials - eBook

A two-volume set offering readers a comprehensive insight into the contemporary practice of operative dentistry and the scientific principles upon which it is based. Written by a group of experts, these volumes address all aspects of everyday procedures as well as the latest innovative technologies, making them equally relevant for the practicing clinician as for the advanced student.

Operative Dentistry

Advances in Diverse Industrial Applications of Nanocomposites

This book is a printed edition of the Special Issue Bioactive and Therapeutic Dental Materials that was published in Materials

Dental Clinics of North America

This book provides information to the readers starting with the history of oral hygiene manners, and modern oral hygiene practices. It continues with the prevalence and etiology of caries and remedy of caries through natural sources. Etiology of secondary caries in prosthetic restorations and the relationship between orthodontic treatment and caries is addressed. An update of early childhood caries is presented. The use of visual-tactile method, radiography and fluorescence in caries detection is given. The book finishes with methods used for the prevention of white spot lesions and management of caries.

Emerging Trends in Oral Health Sciences and Dentistry

Nanocomposites are attractive to researchers both from practical and theoretical point of view because of combination of special properties. Many efforts have been made in the last two decades using novel nanotechnology and nanoscience knowledge in order to get nanomaterials with determined functionality. This book focuses on polymer nanocomposites and their possible divergent applications. There has been enormous interest in the commercialization of nanocomposites for a variety of applications, and a number of these applications can already be found in industry. This book comprehensively deals with the divergent applications of nanocomposites comprising of 22 chapters.

Dental Materials in Vivo

This new edition is a complete guide to operative dentistry. Beginning with an introduction, physiology, dental caries and tooth preparation, the text also discusses pain and infection control. The following sections examine different operative procedures. New techniques such as minimal intervention dentistry, nanotechnology and lasers; and advances in dental materials are discussed in detail. More than 1200 colour images, illustrations, flow charts and tables are included. Key points Complete guide to operative dentistry Discusses numerous different procedures, and pain and infection control New techniques and advances in materials described in detail More than 1200 colour images, illustrations, flow charts and tables Previous edition published in 2010

Esthetic Color Training in Dentistry

Contemporary Restoration of Endodontically Treated Teeth

Journal of the California Dental Association

This comprehensive clinical guide to the uses of glass-ionomers in operative dentistry has been updated throughout.

Compendium of Continuing Education in Dentistry

Materials for the Direct Restoration of Teeth

Currently there is no reason, in most cases of cavitated caries lesions, to remove affected tissue. This book presents evidence-based research on the topic and provides assessments of diagnostic devices. It offers new insights into how a dentine carious cavity can be managed by either tissue removal or restoration. Methods for preserving dental tissue are presented and ample evidence highlights the need to seal with a quality restorative material. An update on how to conduct a randomized clinical trial is followed by a chapter on agreed upon terminology for supporting improved communication among oral health professionals around the world. This is a must-read for general practitioners, restorative specialists, dental students, and oral hygienists/therapists.

Advances in Dental Research

This is a study of pulp and dentin in restorative dentistry. A basic understanding of the pulp-dentin complex is presented and its response to intraoral insults and restorative procedures described.

Preventive Materials, Methods, and Programs

A work on operative dentistry

This book/CD-ROM helps users master the art of color selection to achieve the best esthetic results in dental procedures, such as those related to cosmetic dentistry, restorative dentistry, and prosthodontics. It covers everyday dental techniques that require the dentist to precisely match dental materials to patients' teeth. The book's nine easy-to-read chapters serve as a basis for color training - from colorimetry and the properties of natural teeth, to the specifics of color perception and reproduction of color. The accompanying CD-ROM uses interactive color-block exercises to train and test users on discerning lightness, hue, and chroma changes, as well as total color differences. Short, easy-to-read chapters present only the most important concepts of each topic, allowing for quick completion and comprehension. The newest techniques in esthetic dentistry are presented, with implications for the future of each topic. Full-color, high-quality art program serves as an instrumental tool in learning about color and shading, providing color images for reference. A total of 31 expert contributors from a variety of dental schools lend their experience and knowledge of color and dental materials, ensuring accuracy of all material. Interactive "drag-and-drop" exercises on CD-ROM sharpen users' color-matching skills by challenging them to arrange color blocks. CD-ROM exercises are logically ordered from least complex to most difficult, so that as users master topics, the next exercises expand upon concepts and challenge users to recall concepts and techniques. CD-ROM exercises can be performed multiple times for unlimited practice.

Advances in Operative Dentistry: Contemporary clinical practice

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 these important biomaterials Reviews the fundamentals of dental biomaterials and examines advanced materials for regeneration Written by an international team of materials scientists and clinicians in order to provide a balanced perspective on the field

Bioactive and Therapeutic Dental Materials

Advances in Ceramic Biomaterials

Combining the approaches of preventative and restorative dentistry, this is a revised and updated guide to the clinical techniques and procedures necessary for managing tooth disorders and disease. Introduces minimally invasive dentistry as a model to control dental disease and then restore the mouth to optimal form, function, and aesthetics Contains several student-friendly features, including a new layout, line drawings and clinical photographs to illustrate key concepts Covers fundamental topics, including the evolutionary biology of the human oral environment; caries management and risk assessment; remineralization; principles of cavity design; lifestyle factors; choices between restorative materials and restoration management Includes a companion website with self-assessment exercises for students and a downloadable image bank for instructors

Pediatric Restorative Dentistry

Atraumatic Restorative Treatment (ART) for Dental Caries

Cumulated Index Medicus

This book describes and discusses the different restorative options for managing carious lesions in children with primary and mixed dentition. The aim is to provide practitioners with thorough, up-to-date information that will improve their clinical practice. The opening chapters present a comprehensive overview regarding diagnosis of carious lesions, risk assessment, child behavior and development, and behavioral management. The importance of oral health promotion and prevention in controlling lesion progression and maintaining oral health is reviewed. The impact of various factors on clinician decision making is then explained in detail, examples including the type of dentition (primary versus permanent), the clinical and radiographic aspect of the dentine carious lesion (noncavitated or cavitated), and whether the lesion is associated with a developmental defect. Guidance is provided on selection of nonoperative versus operative interventions, and the restorative materials most frequently used in pediatric dentistry are fully described, highlighting their advantages and disadvantages. Readers will also find

an informative series of cases, with explanation of the choices in terms of materials and approach.

Glass Ionomer Dental Cement

Textbook of Operative Dentistry

Caries Excavation: Evolution of Treating Cavitated Carious Lesions

Written by a group of renowned experts three decades after the publication of the last comprehensive book on this topic, this much-needed book has a wealth of evidence-based information on all facets of the restoration of pulpless teeth. With a better understanding of the factors that can influence the prognosis of severely compromised teeth, the approach to treating these teeth has evolved, and this text offers a well-balanced, contemporary approach to treatment planning. Traditional principles and techniques are reviewed and reinforced, along with modern materials and methods, all with a firm foundation in the best available scientific evidence and with an emphasis on clinical studies. Many of the chapters provide comprehensive, step-by-step descriptions of technical procedures with accompanying illustrations to guide the reader through every stage of restoring pulpless teeth, including fabrication of various foundation restorations, cementation techniques, and methods of provisionalization. Preprosthetic adjunctive procedures, such as surgical crown lengthening, repair of perforations, and orthodontic measures, are also described and illustrated. For years to come, this text will remain a definitive reference for specialists involved in the restoration of pulpless teeth or engaged in planning treatment for structurally compromised teeth.

Dental Caries

This book provides a complete review of all types of glass-ionomer cements, from their uses and limitations to problems associated with their use in modern dental practice, with particular emphasis on restorative and pediatric dentistry, orthodontics, prosthodontics, and endodontics.

Advanced Dental Biomaterials

This concise handbook covers all aspects of glass-ionomer cements, from the development of these materials in the early 1970s through to the current state of the art. Their physical, chemical, biological, and clinical properties are described as well as how their formulation and usage have evolved over time, giving rise to newer subcategories of the parent materials. Detailed coverage is provided on the clinical use of glass-ionomer cements in restorative and pediatric dentistry and in widely taught and practiced newer approaches, including atraumatic restorative treatment and minimal intervention dentistry. The authors are internationally acclaimed experts who present information in an easy-to-follow format that will

appeal to readers. With the renewed worldwide quest for substitute materials for the more traditional amalgam, glass-ionomer cements have the potential for further development and may play a significant role in future trends.

Pulp-dentin Biology in Restorative Dentistry

Quintessence International

This text highlights information that practitioners need to improve their ability to observe, evaluate, treatment plan, and apply composite resin restorations. It provides a detailed presentation on the development of direct and indirect composite restorations. The text ranges from material selection, preparation designs, and adhesive protocols to the different application of restorative techniques and finishing procedures. Scientific data and detailed illustrations are intertwined to provide clarity and evidence for these procedures.

Glass-Ionomers in Dentistry

The 11th edition of this leading reference is an outstanding, scientifically based source of information in the field of dental materials science. It presents up-to-date information on materials that are used in the dental office and laboratory every day, emphasizing practical, clinical use, as well as the physical, chemical, and biological properties of materials. Extensive new clinical photographs in this edition illustrate the topics, and color plates are integrated close to related concepts as they're discussed in each chapter. A new glossary of key terms found at the beginning of every chapter defines terms in the appropriate context of the chapter's discussion. Also in this edition, critical thinking questions throughout the book stimulate the readers' curiosity on specific topics, test their existing knowledge, and heighten their awareness of important or controversial subjects. Content outlines at the beginning of each chapter provide a quick reference for specific topics. The roles played by key organizations in ensuring the safety and efficacy of dental materials and devices are described - such as the American Dental Association, the U.S. Food and Drug Administration, the International Organization for Standardization, and the Fédération Dentaire Internationale. Up-to-date Selected Readings are presented at the end of each chapter to direct readers to supplemental literature on each topic. Numerous boxes and tables throughout summarize and illustrate key concepts and compare characteristics and properties of various dental materials. Distinguished contributors lend their credibility and experience to the text. Content has been completely updated to include information on the most current dental materials available. Glossaries at the beginning of each chapter define key terms used within the context of that chapter. Revised artwork gives this edition a fresh look, with high-quality illustrations and clinical photos to aid in the visualization of materials and procedures described. Reorganization and consolidation of chapters into four major book parts presents the material in a more efficient way: Part I describes the principles of materials science that control the performance of dental materials in dental laboratories, research laboratories, student dental clinics, public health clinics, and private practice clinics. Part II focuses on impression materials, gypsum

products, dental waxes, casting investments and procedures, and finishing and polishing abrasives and procedures. Part III provides an updated scientific and applied description of the composition, manipulation principles, properties, and clinical performance of bonded restorations, restorative resins, dental cements, dental amalgams, and direct-filling golds. Part IV presents a basic and applied description of materials that are processed in a laboratory or dental clinic. Critical thinking questions appear in every chapter to stimulate thinking and classroom discussion. The overall design has been improved to provide a more visually appealing format.

An Atlas of Glass-Ionomer Cements

This book on Acrylic Polymers for Healthcare presents eight chapters organised into three parts by providing new ideas in design, synthesis and a detailed study of new acrylate materials in healthcare applications. Part I represents Chapters 1, 2, 3 and 4 focussing on tuning up of technologies for making dental dentures with better properties. Part II comprises Chapters 5 and 6 dealing with synthetic polymer-based nanoparticles as intelligent drug delivery systems and bismuth nanoparticles for improved green light emission. Part III represents Chapters 7 and 8 describing the aspects of mitigation of acrylamide in foods in the context of an African perspective and the importance of acrylic-based polymeric adsorbents so that the reader can get an idea about the various types and forms of polymeric materials used for the removal of heavy metals from water.

Acrylic Polymers in Healthcare

This book is open access under a CC BY 4.0 license. This volume broadens understanding of dentistry and promotes interdisciplinary research across a wide range of related fields, based on the symposium entitled "Innovative Research for Biosis–Abiosis Intelligent Interface 2016". It aims to create highly functional and autonomic intelligent interface by combining highly functional interface science with the technology of an evaluation and a control at the interface, with the various topics of biomaterials, innovation for oral science and application, regenerative oral science, and medical engineering. Since 2002, the Tohoku University Graduate School of Dentistry has hosted "Interface Oral Health Science" several times as the main theme of dental research in the twenty-first century, and this is the sixth proceedings of the symposiums following the ones in 2005, 2007, 2009, 2011, and 2014. This book benefits not only dental scientists but also other health scientists including medical physicians and pharmacologists, material scientists, engineers, and any scientist who is involved in variety of disciplines.

Glass-ionomer Cement

The authors, one a materials scientist, the other a clinician (both are British) cover the subject for dentists who want to understand and use glass-ionomer cement. Annotation copyright Book News, Inc. Portland, Or.

Preservation and Restoration of Tooth Structure

This comprehensive review brings together research by biomaterials experts in various fields of dentistry, including oral and maxillofacial surgery, orthodontics, periodontics, prosthodontics, and restorative dentistry. Through the presentation of evidence derived exclusively from in vivo studies, the mechanisms governing the aging of materials placed in the oral cavity are clarified and selective aspects of the in vivo performance of materials demonstrated.

Biguanides—Advances in Research and Application: 2013 Edition

This fourth volume in a series of five on preventive dentistry describes some materials, methods and programs used to prevent dental caries and periodontal disease. Coverage includes both self-care and professional methods of mechanical and chemical plaque control and the use of fluorides and fissure sealants. The final three chapters are devoted t

Dental Caries

Biguanides—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Chlorhexidine in a concise format. The editors have built Biguanides—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chlorhexidine in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Biguanides—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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