Biomedical Inorganic Polymers By Werner E G M Ller

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Practice Exam 2 Problem 4: Polymer Crystallization and Growth of Polymers

Notes of Polymer chemistry ¦¦ MSc notes types of Polymerization

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Examples of biomedical inorganic polymers that have been proven to exhibit biomedical effects and/or have been applied in preclinical or clinical trials are polysilicate / silica glass (such as naturally formed " biosilica " and synthetic " bioglass ") and inorganic polyphosphate. Some biomedical inorganic polymers have already been applied e.g. as " bioglass " for bone repair and bone tissue engineering, or are used in food processing and in dental care (inorganic polyphosphates).

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Examples of biomedical inorganic polymers that have been proven to exhibit biomedical effects and/or have been applied in preclinical or clinical trials are polysilicate / silica glass (such as naturally formed " biosilica " and synthetic " bioglass ") and inorganic polyphosphate. Some biomedical inorganic polymers have already been applied e.g. as " bioglass " for bone repair and bone tissue engineering, or are used in food processing and in dental care (inorganic polyphosphates).

In recent years, inorganic polymers have attracted much attention in nano-biomedicine, in particular in the area of regenerative medicine and drug delivery. This growing interest in inorganic polymers has been further accelerated by the development of new synthetic and analytical methods in the field of nanotechnology and nanochemistry. Examples for biomedical inorganic polymers that had been proven to exhibit biomedical effects and/or have been applied in preclinical or clinical trials are polysilicate / silica glass (such as naturally formed " biosilica " and synthetic " bioglass ") and inorganic polyphosphate. Some members of the mentioned biomedical inorganic polymers have already been applied e.g. as " bioglass " for bone repair and bone tissue engineering, or they are used in food processing and in dental care (inorganic polyphosphates). However, there are a number of further biological and medicinal properties of these polymers, which have been elucidated in the last few years but not yet been applied for treatment of humans. In addition to polysilicates and polyphosphate, there are a series of other inorganic polymers including polyarsenate and polyvanadate, whose biological / biomedical properties have been only marginally studied so far. Moreover, the combined application of inorganic polymers and organic polymeric molecules (formation of organic-inorganic hybrid materials) provides a variety of new materials with novel property combinations and diverse applications in nanomedicine. The planned book summarizes the present state of knowledge on a large group of inorganic polymers that had hitherto been mainly considered with regard to their chemistry but not comprehensively reviewed with respect to their potential biomedical applications.

This volume focuses on the biomedical aspects of inorganic polyphosphates, a family of unique bio-inorganic polymers. In recent years, great advances have been made in understanding the development, metabolism, and physiological role of inorganic polyphosphates. These energy-rich polymers, which consist of long chains of phosphate units, are evolutionary old molecules. The acidocalcisomes, conserved organelles from bacteria to humans, as well as the mitochondria play a central role in polyphosphate production and storage. Polyphosphates have been assigned multiple functions, some of which are closely related to medically important processes, such as blood coagulation and fibrinolysis, energy metabolism, cell cycle regulation, apoptosis, chaperon function, microvascularization, stress response, neurodegeneration and aging. The development of bioinspired polyphosphate particles, in combination with suitable hydrogel-forming polymers enabled the development of new strategies in regenerative medicine, in particular for hard and soft tissue repair, but also in drug delivery and antimicrobial defense. This book not only highlights the basic research in this area, but also discusses possible applications. Therefore, it appeals to scientists working in cell biology, biochemistry, and biomedicine and practicioners alike.

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The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11-volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia. The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print. A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials. Acknowledging the evolving nature of the field, the encyclopedia also features newly added content in areas such as tissue engineering, tissue repair and reconstruction, and biomimetic materials.

This book describes the discovery of molecules from unexploited extreme marine environments, and presents new approaches in marine genomics. It combines the current state of knowledge in marine genomics and advanced natural products ’ chemistry to pursue the sustainable production of novel secondary metabolites (lead compounds), as well as pharmacologically active peptides/proteins, with antimicrobial, neuroprotective, anti-osteoporotic, anti-protozoan/anti-plasmodial, anti-ageing and immune-modulating effects. Further, it employs molecular-biology-based approaches and advanced chemical techniques to obtain and to select candidate compounds for pre-clinical and clinical studies.

Inorganic materials have been used for biomedical applications since many decades. They have been utilized successfully because of easy and economic methods for bulk preparation and industrial manufacturing. Surface modifications significantly improve the success of these materials and enable us to exploit their application in many innovative fields such as tissue engineering, dentistry, nanocarriers for drugs, medical diagnosis and antifouling technologies. This e-book provides comprehensive information on technologies for development and characterization of successful functionalized materials for biomedical applications relevant to surface modification. It is a suitable reference for advanced students and researchers interested in biomaterials science and medical applications of inorganic substances.

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Metal–organic frameworks are among the most promising novel materials. The concept of MOFs was first introduced in 1990. They were actually initially used in catalysis, gas separation, membranes, electrochemical sensors. Later on, they were introduced as SPE sorbents for PAHs (Polycyclic Aromatic Hydrocarbons) in environmental water samples, then the range expanded to the field of analytical chemistry, both in chromatographic separation and sample preparation, with great success in, e.g., SPE and SPME (Solid Phase Mico-extraction). Since then, the number of analytical applications implementing MOFs as sorbents in sorptive sample preparation approaches is increasing. T his is reinforced by the fact that, at least theoretically, an infinite number of structures can be designed and synthesized, thus making tuneability one of the most unique characteristics of MOF materials. Moreover, they have been designed in various shapes, such as columns, fibers, and films, so that they can meet more analytical challenges with improved analytical features.Their exceptional properties attracted the interest of analytical chemists who have taken advantage of the unique structures and properties and have already introduced them in several sample pretreatment techniques, such as solid phase extraction, dispersive SPE, magnetic solid phase extraction, solid phase microextraction, stir bar sorptive extraction, etc.

Non-covalent interactions, which are the heart of supramolecular chemistry are also the basis of most important functions of living systems. The ability to apply supramolecular chemistry principles to the life sciences, such as designing synthetic host compounds to selectively interact within biological targets, has gained wide appeal due the vast number of potential applications. Supramolecular Systems for Biomedical Fields provides in sixteen chapters a comprehensive overview of these applications. Each chapter covers a specific topic and is written by internationally renowned experts in that area. Sensing of bioactive inorganic ions and organic substrates is the focus of several contributions, as well as interactions with proteins and nucleic acids. Specific chapters are devoted to cyclodextrins, calixarenes and cucurbiturils as most frequently used receptors, including applications such as drug delivery and protection, gene transfer and others. Other chapters address the use of combinatorial libraries, molecular imprinting techniques, enzyme assays, supramolecular gels, bioimaging, drug activation, photodynamic therapy, and antitumour metal complexes. This timely publication will appeal to graduate students and researchers from chemical, pharmaceutical, biological, and medicinal fields interested in the supramolecular chemistry of biological systems and their practical potentials.