MACROMOLECULES CONTAINING METAL and METAL-LIKE ELEMENTS



BIOMEDICAL APPLICATIONS

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metal chelates and their development are examined The related research was performed for chelates with chain structure This book is useful to researchers being active in synthesis and design of macromolecular metal chelates Inorganic and Organometallic Macromolecules Alaa S. Abd-El-Aziz, Charles E. Carraher, Charles U. Pittman, Martel Zeldin, 2007-12-19 This important work is based on the editors symposium at the 2005 ACS meeting in Washington DC The contents include an emphasis on main group polymers including boron The chapters are not simply journal articles but have real added value as the editors have reviewed the general area by placing the work into a larger perspective. This book will be required reading for scientists in a number of disciplines including chemical engineers and physics researchers **Advanced Functional** Polymers for Biomedical Applications Masoud Mozafari, Narendra Pal Singh Chauhan, 2019-06-14 Advanced Functional Polymers for Biomedical Applications presents novel techniques for the preparation and characterization of functionalized polymers enabling researchers scientists and engineers to understand and utilize their enhanced functionality in a range of cutting edge biomedical applications Provides systematic coverage of the major types of functional polymers discussing their properties preparation techniques and potential applications Presents new synthetic approaches alongside the very latest polymer processing and characterization methods Unlocks the potential of functional polymers to support ground breaking techniques for drug and gene delivery diagnostics tissue engineering and regenerative medicine Abiotic and Biotic Environments Alina Kabata-Pendias, Barbara Szteke, 2015-04-07 This book helps readers understand the fundamental principles and phenomena that control the transfer of trace elements It describes the occurrence and behavior of trace elements in rocks soil water air and plants and also discusses the anthropogenic impact to the environment In addition the book covers the presence of trace elements in feeds as either contaminants or as nutritional or zootechnical additives and their transfer across the food chain to humans All trace elements are covered from aluminum to zirconium as well as rare earth elements actinides and lanthanides Macromolecules Containing Metal and Metal-Like Elements, Biomedical Applications Alaa S. Abd-El-Aziz, Charles E. Carraher, Charles U. Pittman, John E. Sheats, Martel Zeldin, 2004-06-25 Metal and metalloid containing compounds exhibit a wide range of biological and biocidal activities some of which have been employed in medicines and drugs Polymers containing metal or metalloid functions become a natural extension of this effort just as organic compound drugs have been chemically bound to polymers or physically imbibed into polymer matrices in order to provide a variety of useful advantages the same opportunities exist for using metal and metalloid species This volume will cover important biomedical applications of organometallic compounds including metal labeled DNA on surfaces artificial metallo DNA organotin molecules as anti cancer drugs and much more Provides useful descriptions of biomedical applications for the reader to apply in his her research into materials polymers and medicine drug development Edited by high quality team of macromolecular experts from around the world **Advanced Nanomaterials for Point of Care Diagnosis and Therapy** Sushma Dave, Jayashankar Das, Sougata Ghosh, 2022-03-11 Advanced Nanomaterials for Point of

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