

MACROMOLECULES CONTAINING METAL and METAL-LIKE ELEMENTS

VOLUME 1



A HALF CENTURY OF METAL-AND
METALLOID-CONTAINING POLYMERS

ALAA S. ABD-EL-AZIZ
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Macromolecules Containing Metal And Metal Like Elements

Alaa S. Abd-El-Aziz, Ian Manners



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Metal-Like Elements, Volume 9 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., Martel Zeldin, 2009-11-19 Volume 9 in a scientific research series covering macromolecules This book *Macromolecules Containing Metal and Metal like Elements* presents research developments in the study of supramolecular chemistry supramolecular architecture and supramolecular self assemblies The topics addressed involve materials containing metals and metal like elements as well as the possible applications of hybrid materials The volume offers a broad series of coverage with conclusions and perspectives for the various areas covered **Macromolecules Containing Metal and Metal-Like**

Elements, Volume 10 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Pierre D. Harvey, Charles U. Pittman, Jr., Martel Zeldin, 2010-06-22 Metal and metalloid containing macromolecules are defined as large molecules i e polymers DNA proteins that contain a metal or metalloid group affiliated with the molecule This volume describes what is possible with metal

containing polymers where the metal is an essential ingredient in obtaining desired optical and electronic properties Covering applications in nonlinear optical materials solar cells light emitting diodes photovoltaic cells field effect transistors chemosensing devices and biosensing devices this indispensable guide focuses on the photochemistry and photophysics of metal containing polymers with chapters by leading contributors to the core advances in this field Macromolecules Containing Metal and Metal-Like Elements, Volume 2 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., John E. Sheats, Martel Zeldin, 2003-11-20 Metal and metalloid containing macromolecules are defined as large molecules i e polymers DNA proteins that contain a metal or metalloid group affiliated with the molecule Compiled by an all star cast of macromolecular experts Macromolecules Containing Metal and Metal Like Elements Volume 2 Organoiron Containing Polymers Provides useful descriptions of applications for the reader to apply in his her research into materials polymers and medicine drug development Covers non linear optical materials speciality magnetic materials liquid crystals anticancer and antiviral drugs treatment of arthritis antibacterial drugs antifouling materials treatment of certain vitamin deficiencies electrical conductors and semiconductors piezoelectronic materials electrodes UV absorption applications super strength materials special lubricants and gaskets selective catalytic and multisite catalytic agents **Macromolecules Containing Metal and Metal-Like Elements, Volume 3** Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., John E. Sheats, Martel Zeldin, 2004-08-02 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

Macromolecules Containing Metal and Metal-Like Elements, Volume 5 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., Martel Zeldin, 2005-07-08 This series provides a useful applications oriented forum for the next generation of macromolecules and materials The fifth volume in this series provides useful descriptions of the transition metals and their applications Transition Metals are covered in 2 volumes the second part is covered in Volume 6

Macromolecules Containing Metal and Metal-Like Elements, Volume 1 Alaa S. Abd-El-Aziz, Charles E. Carraher, Jr., Charles U. Pittman, Jr., John E. Sheats, Martel Zeldin, 2004-02-15 Metal and metalloid containing macromolecules are defined as large molecules i e polymers DNA proteins that contain a metal or metalloid group affiliated with the molecule The first volume in this series consists of a number of reviews of the field to give the reader a background to build upon Compiled

by an all star cast of macromolecular experts this guide Provides useful descriptions of applications for the reader to apply in his her research into materials polymers and medicine drug development Covers non linear optical materials speciality magnetic materials liquid crystals anticancer and antiviral drugs treatment of arthritis antibacterial drugs antifouling materials treatment of certain vitamin deficiencies electrical conductors and semiconductors piezoelectronic materials electrodes UV absorption applications super strength materials special lubricants and gaskets selective catalytic and multisite catalytic agents *Ullmann's Polymers and Plastics* Wiley-VCH,2016-03-18 Your personal Ullmann s Chemical and physical characteristics production processes and production figures main applications toxicology and safety information are all to be found here in one single resource bringing the vast knowledge of the Ullmann s Encyclopedia to the desks of industrial chemists and chemical engineers The ULLMANN S perspective on polymers and plastics brings reliable information on more than 1500 compounds and products straight to your desktop Carefully selected best of compilation of 61 topical articles from the Encyclopedia of Industrial Chemistry on economically important polymers provide a wealth of chemical physical and economic data on more than 1000 different polymers and hundreds of modifications Contains a wealth of information on the production and use of all industrially relevant polymers and plastics including organic and inorganic polymers fibers foams and resins Extensively updated more than 30% of the content has been added or updated since the launch of the 7th edition of the Ullmann s encyclopedia in 2011 and is now available in print for the first time 4 Volumes

Advances in Organometallic Chemistry Anthony F. Hill,Mark J. Fink,2011-08-09 Almost all branches of chemistry and material science now interface with organometallic chemistry the study of compounds containing carbon metal bonds This widely acclaimed serial contains authoritative reviews that address all aspects of organometallic chemistry a field that has expanded enormously since the publication of Volume 1 in 1964 Fully updated and expanded to reflect recent advances Illustrated with pertinent examples from recent literature Contributions from leading authorities and industry experts

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

Chemistry of Polymeric Metal Chelates Gulzhian I. Dzhardimalieva,Igor E. Uflyand,2018-02-13 This book deals with the chemistry of polymeric metal chelates The main results and the production and chemical structure of polymers with chelate units as well as the specificity of metal complex binding of different structure are presented here This book also reveals the transformations which components undergo in the course of chelation Special attention is paid not only to synthetic but also to natural including living systems The usage of polymeric 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

Frontiers in Transition Metal-Containing Polymers

Alaa S. Abd-El-Aziz,Ian Manners,2006-10-25 A detailed up to date review of transition metal containing polymers Promising advances in the electrical optical magnetic biological and catalytic properties that metal containing polymers possess have led to notable expansion in the field of transition metal containing polymers Frontiers in Transition Metal Containing Polymers provides a comprehensive up to date review of the synthesis properties and applications of transition metal containing polymers including an overview of the historical development of these types of polymers Written by the leading researchers in the field this thorough volume covers the routes to organometallic and coordination polymers as well as characterization and applications of transition metal containing monomers and polymers Other topics discussed include Metallo supramolecular coordination polymers based on nitrogen ligands Coordination polymers based on phosphorus ligands Polypeptide based metallobiopolymers and DNA based metallopolymers Metallodendrimers Self assembly of metal containing block copolymers Applications including drug delivery optics molecular devices sensors conductive materials and more

New Polymeric Materials Based on Element-Blocks Yoshiki Chujo,2018-12-22 This book introduces the recent progress that has resulted from utilizing the idea of element block polymers A structural unit consisting of various groups of elements is called an element block The design and synthesis of new element blocks polymerization of these blocks and development of methods of forming higher order structures and achieving hierarchical interface control in order to yield the desired functions are expected to result in manifold advantages These benefits will encourage the creation of new polymeric materials that share at a high level electronic optical and magnetic properties not achievable with conventional organic polymeric materials as well as forming properties of molding processability and flexible designability that inorganic materials lack By pioneering innovative synthetic processes that exploit the reactivity of elements and the preparation techniques employed for inorganic element blocks the aim is 1 to create a new series of innovative polymers based on the novel concept of element block polymers in which the characteristics of elements are extensively combined and utilized and 2 to formulate theories related to these polymers This book demonstrates especially the design strategies and the resulting successful examples offering highly functional materials that utilize element block polymers as a key unit

Synthesis and

Application of Organoboron Compounds Elena Fernández,Andrew Whiting,2015-03-04 The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry As our understanding of organometallic structure properties and mechanisms increases new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis medical research biology and materials science Thus the scope of coverage includes a broad range of topics in pure and applied organometallic chemistry where new breakthroughs are being achieved that are of significance to a larger scientific audience The individual volumes

of Topics in Organometallic Chemistry are thematic Review articles are generally invited by the volume editors

Ruthenium-Containing Polymers Ulrich S. Schubert, Andreas Winter, George R. Newkome, 2021-06-17 This book presents the synthetic methodologies as well as the properties and potential usage of various ruthenium containing materials Starting from the first examples of ruthenopolymers reported in the 1970s to the 3D architectures now synthesized these materials have shown their importance far beyond fundamental polymer science As well as highlighting the remarkable properties and versatile applications this book also addresses a key question related to the applications of such heavy metal containing materials from the perspective of achieving a sustainable future This book is of interest to both materials scientists and chemists in academia and industry *Metal Phosphonate Chemistry* Abraham Clearfield, Konstantinos Demadis, 2012 Metal phosphonate chemistry is a highly interdisciplinary field as it encompasses several other areas such as materials chemistry gas storage pharmaceuticals corrosion control classical chemical synthesis X Ray crystallography powder diffraction etc It has also acquired additional significance due to Metal Organic Frameworks as evidenced by the hundreds of papers published each year Currently there is no other book on the topic and this book fills the gap in the literature by summarising in a concise way the latest developments in the field Metal phosphonate chemistry has seen impressive growth in the last 15 20 years and there is a clear need to systematize and organize all this growth This unique book accomplishes just that need edited by two experts it includes contributions from other experienced researchers and organises categorises and presents in an attractive way the latest hot topics in metal phosphonate chemistry and related applications With an extensive bibliography it is a great reference for academic and industrial researchers as well as students working in the field and will act as a starting point for further exploration of the literature It is also of great interest to scientists working in the broader area of metal organic frameworks and their applications *Trace Elements in Abiotic and Biotic Environments* Alina Kabata-Pendias, Barbara Szeke, 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

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