

Transition metal polymers

- Transition metal-containing polymers are macromolecules that contain **transition metal** complex moieties at the **side and/or main chains**.
- Most of synthetic polymers consist of main group elements including C, H, N, O, F, Si, P, S, and Cl. In accordance with the progress of transition metal catalyst chemistry, various polymers containing transition metals have been synthesized, and they are finding applications as polymer **catalysts**, **redox-active materials**, **electron-conductive materials**, **photo and electroluminescent materials**, **biomimetic materials**, and so on.

Macromolecules Containing Metal And Metal Like Elements Transition Metal Containing Polymers

**Alaa S. Abd-El-Aziz, Charles E.
Carraher, Jr., Charles U. Pittman,
Jr., Martel Zeldin**

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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, 2010-05-24 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

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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 **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

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Macromolecules Containing Metal And Metal Like Elements Transition Metal Containing Polymers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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