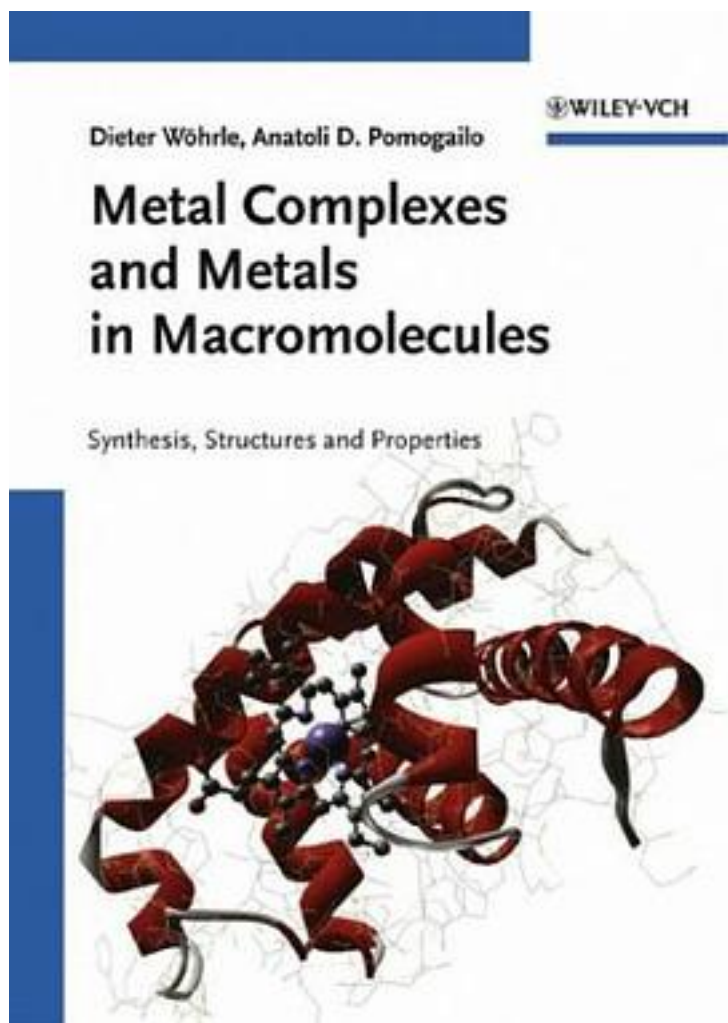


# Metal Complexes and Metals in Macromolecules



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Metals and metal complexes can form compounds with organic macromolecules that

show amazing properties. As is so often the case, nature leads by example. Synthetically produced model compounds, such as phthalocyanines, porphyrines or metalloproteins, as well as metallorganic polymers have aroused much interest in materials science. Their special magnetic, electrochemical and photochemical properties open up new perspectives in microelectronics and sensors. This compact manual is aimed at all organic, inorganic, polymer and physical chemists as well as materials scientists looking for competent and detailed information on the current state of this interdisciplinary area of research. It covers all questions relating to the targeted design of metallic macromolecules, from proven synthesis methods right up to the latest strategies. It also treats major progress in the determination of their structures, the physical-chemical properties of promising compounds and their potential in microelectronics and sensors. Furthermore, the most important methods of synthesis and investigation are presented in detail in an experimental section, while a comprehensive collection of pertinent original literature rounds off this unique reference on all matters relating to macromolecular metal complexes.

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