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Coordination Chemistry in Protein Cages: Principles, Design, and Applications

Takafumi Ueno, Yoshihito Watanabe

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Sets the stage for the design and application of new protein cages

Featuring contributions from a team of international experts in the coordination chemistry of biological systems, this book enables readers to understand and take advantage of the fascinating internal molecular environment of protein cages. With the aid of modern organic and polymer techniques, the authors explain step by step how to design and construct a variety of protein cages. Moreover, the authors describe current applications of protein cages, setting the foundation for the development of new applications in biology, nanotechnology, synthetic chemistry, and other disciplines.

Based on a thorough review of the literature as well as the authors' own laboratory experience, *Coordination Chemistry in Protein Cages*

- Sets forth the principles of coordination reactions in natural protein cages
- Details the fundamental design of coordination sites of small artificial metalloproteins as the basis for protein cage design
- Describes the supramolecular design and assembly of protein cages for or by metal coordination
- Examines the latest applications of protein cages in biology and nanotechnology
- Describes the principles of coordination chemistry that govern self-assembly of synthetic cage-like molecules

Chapters are filled with detailed figures to help readers understand the complex structure, design, and application of protein cages. Extensive references at the end of each chapter serve as a gateway to important original research studies and reviews in the field.

With its detailed review of basic principles, design, and applications, *Coordination Chemistry in Protein Cages* is recommended for investigators working in biological inorganic chemistry, biological organic chemistry, and nanoscience.

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