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Phosphorous Dendrimers in Biology and Nanomedicine: Syntheses, Characterization, and Properties

by
Horrez Plater

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Synopsis

Dendrimers, which are hyperbranched synthetic macromolecules, have attracted researchers' increasing interest over the last three decades owing to their numerous properties, in particular, in the fields of biology and nanomedicine. This book is an up-to-date collection of the most recent achievements in the use of dendrimers in nanomedicine, exemplified by phosphorus-containing dendrimers. Starting with the synthesis and characterization of phosphorus dendrimers, the book discusses their use as biomaterials, carriers of biological entities, and anti-inflammatory drugs; in bioimaging; and against prion diseases, Alzheimer's, HIV, and cancer. It compares phosphorus dendrimers with other types of dendrimers. Supplemented with numerous references and abundant illustrations, the book opens new perspectives for the researchers working on dendrimers.

The book by Horrez Plater

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