



Dendrimers IV Metal Coordination, Self Assembly, Catalysis Topics in Current Chemistry

By -

Springer. Paperback. Condition: New. 244 pages. Dimensions: 9.0in. x 6.0in. x 0.6in. Dendrimers stand within the focus of quite an interdisciplinary area of research: Metal dendrimers bring inorganic chemistry into play. Organic synthesis contributes much to the preparation of dendrimers, which are then studied by various physicochemical methods such as small angle neutron scattering, photochemistry, and many others. The relation to macromolecules is straightforward, but their routine use in biochemistry, e. g., as gene transfection vectors may be less obvious. All these different aspects have been combined in the Topics tetralogy in order to provide an overview as broad as possible in this fascinating field of chemistry. The fourth and final issue in the series starts with a chapter by Chow on the synthesis of dendritic oligoethers, which represent polyodands soluble in many solvents. Two contributions deal with dendrimers based on the less-than-covalent bond. While metal coordination as described in the review by Reinhoudt still employs rather strong bonds with bond energies close to covalent bonds, Zimmermans overview comprises dendrimers that self-assemble via weak forces such as hydrogen bonding. Biologic activity is one of the major topics in Lindhorsts overview of glycodendrimers, which have become a useful...



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