

Special Issue

Contribution of Dendrimers and Other Dendritic Polymers in Medical Nanotechnology

Message from the Guest Editors

The concept of mimicking nature's dendritic patterns through radial polymerization has afforded such a diversity of derivatives that their recognition as a fourth class of polymers is imperative. Research on dendritic polymers is characterized by its interdisciplinary nature, with both current and prospected applications involving most of the natural and medical sciences. The latter benefit from these polymers' exceptional properties, unique architecture and similarity to biomolecules. The intramolecular cavities and intermolecular associations range from ions and small molecules to large biological entities. External groups are susceptible to functionalization and, in parallel, provide high local concentrations of active groups. In harmony with the trend of nanotechnology-empowered implementations, solutions to major health challenges have been discovered. This Special Issue is dedicated to all the efforts of contemporary scientists working in the field to address sanitary needs and aims to present the broad spectrum of future prospects of this research.

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