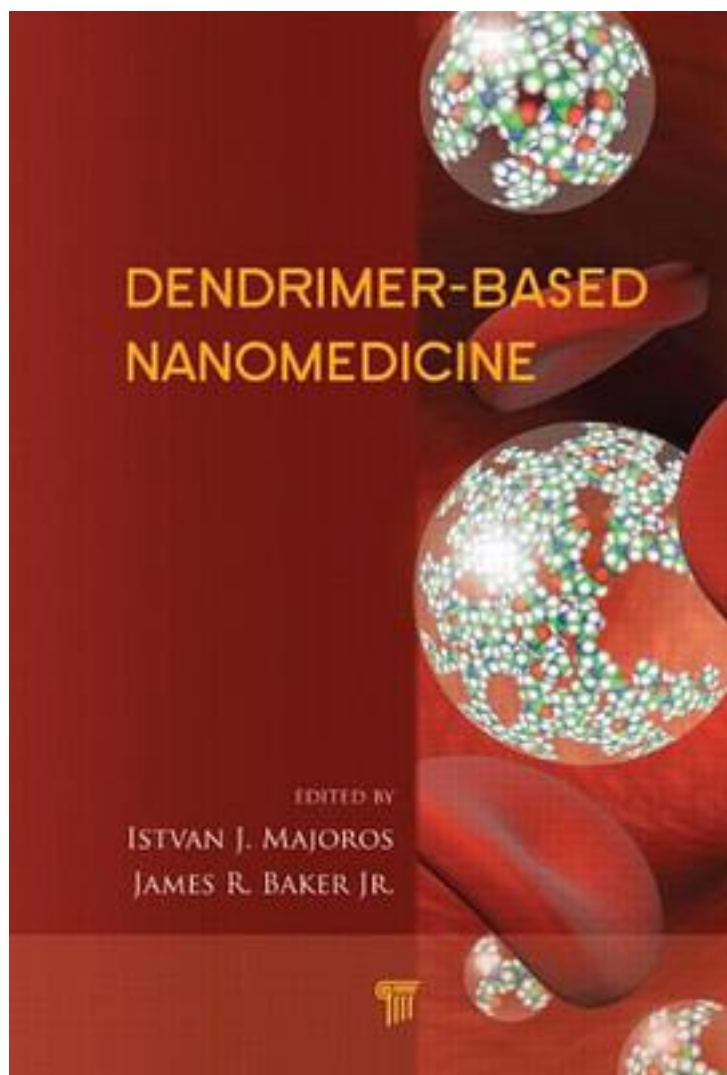


Dendrimer-Based Nanomedicine



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In recent decades, dendrimers -- free-shaped synthetic macromolecules -- have garnered a great deal of scientific interest due to their unique molecular nanostructure. Used in a variety of scientific applications, the use of dendrimers is now widely regarded as a safer, more precise, and more effective way to practice medicine.

This book compiles and details cutting-edge research in science and medicine from the interdisciplinary team of the Michigan Nanotechnology Institute for Medicine and Biological Sciences, who are currently revolutionizing drug delivery techniques through the development of engineered nanodevices. Edited by Istvan J Majoros and James Baker, Jr., two prominent nanotechnology researchers, this book will appeal to anyone involved in nanotechnology, macromolecular science, cancer therapy, or drug delivery research.

Contents: Targeted Drug Delivery in General, New Technology in Medicine (B B Ward & J R Baker, Jr.); General Carriers for Drug Delivery (T H Dunham et al.); Poly(amidoamine) Dendrimer Synthesis and Characterization (I J Majoros & D E Carter); Optical and Biophotonic Applications of Dendrimer Conjugate (J Y Ye & T B Norris); Dendrimer Conjugates for Cancer Treatment (I J Majoros et al.); Biological Application of PAMAM Dendrimer Nanodevices in vitro and in vivo (T P Thomas & J F Kukowska-Latallo); Dendrimer-based Targeted Apoptosis Sensors for Medical Application (A Myc et al.); MRI Using Targeted Dendrimer Contrast Agents (S D Swanson & C R Williams); Nanoparticle Membrane Interactions: Mechanism for Enhanced Permeability (S Hong et al.); Computer Simulations of Dendrimers (S K Kandasamy et al.); Dendrimer-Entrapped and Dendrimer-Stabilized Metal Nanoparticles for Biomedical Applications (X-Y Shi & S H Wang).

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