DESCRIPTION

This book will be mainly focussed on the properties and uses of dendrimers and dendrons. The aim of this book is to be the reference book about dendrimers applications. It will not describe all details, but it will give the reader a unique overview of what has currently been done with dendrimers, with numerous references and illustrations. It will be divided in four main parts: **Part 1**) Generalities, syntheses, characterizations and properties; **Part 2**) Applications in catalysis; **Part 3**) Applications for the elaboration or modification of materials; and **Part 4**) Applications in biology/medicine. The role of the nanometric size and the multiple functions of dendrimers on the properties will be emphasized.

ABOUT THE AUTHOR

**Anne-Marie Caminade** is Director of Research at the Centre National de la Recherche Scientifique (CNRS) in the Laboratoire de Chimie de Coordination in Toulouse (France), where she has been head of the Molecular, Macromolecular, and Supramolecular Main Group Chemistry team (15 to 20 researchers) since 2006. Having received two Ph.Ds (1984 and 1988 in Toulouse) and two Post-docs, in industry (Institut Français du Pétrole, France, 1984) and as an Alexander von Humboldt Fellow at the University of Saarbrücken (Germany, 1988), she has been working since 1985 at the CNRS in Toulouse. Her current research interest is on the synthesis, reactivity and study of properties and applications of dendrimers and dendritic macromolecules in three main fields: Catalysis, Biology-Medicine, and Materials. She is the co-author of 278 publications and 25 patents. She is the coordinator...
or "scientist in charge" of several French and European projects, and received the bronze medal of the CNRS in 1989, and the Organic Chemistry Prize of the French Chemical Society in 2006.

Co-authors for the book will be members of her research team including: Dr Cédric-Olivier Turrin (biology), Dr Régis Laurent and Dr Armelle Ouali (catalysis), Dr Béatrice Delavaux-Nicot (materials).

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