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Rintoul Theory and

Computation inspire the

design of novel drug

carrier dendrimers and

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Dendrimers In macromolecules

Dendrimers In
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Dendrimers are important molecules that are currently undergoing investigation for use in a variety of different biomedical applications. This book explores the use of dendrimers for a variety of potential functions,

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including
antiamyloidogenic
agents, drug delivery
systems, nucleic acid
and RNA delivery
vectors and to produce
hybrid fibre platforms
for nantechnology.

Dendrimers in
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(RSC Publishing)

In summary,
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dendrimers have achieved significant success in a variety of biomedical applications.

While the use of dendrimers in the clinic has still not reached the success of linear polymers , this fact is attributed to the relative newness of this field and the difficulties encountered with the synthesis of these

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materials at the
kilogram and larger
scales under GMP
conditions.

Biomedical applications
of dendrimers - RSC
Publishing Home

Then the focus of the
review shifts to the
biomedical applications
of dendrimers, including
their use in drug

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delivery, tissue

engineering, gene

transfection, and

contrast enhancement

for magnetic resonance

imaging. This tutorial

review is written for first-

year graduate students

or senior

undergraduates and

“ asks ” and

“ answers ” many of

the questions that arise

in our first discussions of

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Biomedical applications
of dendrimers: a tutorial

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Characterization of

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Interactions with

Biomolecules for

Medical ...

Characterization of

Dendrimers and ... -

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This review is focused on the recent use of cyclotriphosphazene-based dendrimers in biomedicine. Since its synthesis for the first time in 1834, cyclotriphosphazene has been an important compound of phosphorus chemistry as a scaffold, and a large number of cyclotriphosphazene

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derivatives have been synthesized and applied in various fields such as biology, catalysis, fluorescence, nanomaterials, etc.

Cyclotriphosphazene core-based dendrimers for biomedical ...

INTRODUCTION :

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Arthur Hailey,

dendrimers are

important molecules

that are currently

undergoing investigation

for use in a variety of

different biomedical

applications this book

explores the use of

dendrimers for a variety

of potential functions

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including
anti-amyloidogenic
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characterization of

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interactions with

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Dendrimers are important molecules that are currently undergoing investigation for use in a variety of different biomedical applications. This book explores the use of

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dendrimers for a variety of potential functions, including antiamyloidogenic agents, drug delivery systems, nucleic acid and RNA...

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Molecular Dynamics of
Lysine Dendrimers.

Computer Simulation
and NMR. I. Neelov, S.
Falkovich, D. Markelov,
E. Paci, A. Darinskii
and H. Tenhu In this
chapter we describe
application of the
method of molecular
dynamics (MD) for the
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the poly L lysine

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Louis L Amour,
dendrimers are
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undergoing investigation for use in a variety of different biomedical applications this book explores the use of dendrimers for a variety of potential functions including antiamyloidogenic agents drug

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Jul 21, 2020 dendrimers
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This book explores the use of dendrimers for a variety of potential functions, including antiamyloidogenic agents, drug delivery systems, nucleic acid and RNA delivery vectors and to produce hybrid fibre platforms for nanotechnology.

Following the work of COST action TD0802,

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the main objective of which is to improve existing therapies and find new drugs based on dendrimers, the book will provide comprehensive coverage of dendrimer applications. Coverage includes modelling and molecular dynamic studies of dendrimers and dendrons, anionic dendrimer polymers,

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cationic carbosilane dendrimers and self-assembled multivalent dendrimers. Providing clear indications for future research and applications, this text will appeal to chemists, biologists and materials scientists, working in both academia and industry.

Nanoparticles are

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attractive for many biomedical applications such as imaging, therapeutics and diagnostics. This new book looks at different soft nanoparticles and their current and potential uses in medicine and health including magnetoliposomes, micro/nanogels, polymeric micelles,

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DNA particles,
dendrimers and bicelles.
Applications
B.Sc

Each chapter provides a description of the synthesis of the particles and focus on the techniques used to characterize the size, shape, surface charge, internal structure, and surface microstructure of the nanoparticles together with modeling and simulation methods.

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By giving a strong physical-chemical approach to the topic, readers will gain a good background into the subject and an overview of recent developments. The multidisciplinary point of view makes the book suitable for postgraduate students and researchers in physics, chemistry, and biology interested in soft

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Biomedical

matter and its uses.

Applications

An overview of the latest advances in the synthesis, characterization and applications of dendrimers and other complex dendritic architectures.

This book provides the field with a much-needed fundamental

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Overview of the science, addressing the chemistry of a broad range of biomaterial types, and their applications in the biomedical industry.

There continues to be a worldwide interest in the size-dependent properties of nanostructured materials and their applications in many

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diverse fields such as catalysis, sensors, energy conversion processes, and biomedicine to name a few. The eleven chapters of this book written by different researchers include four chapters on the different methods of fabrication of specific materials followed by characterization of their properties, and the

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Remaining seven

chapters focusing on the fabrications and

applications including

three chapters on

biomedical applications,

two chapters on sensors,

one chapter on solar

cells, and one chapter

on the use of

nanoparticles in

herbicides. These

chapters provide up-to-

date reviews useful for

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current and future
researchers in these
specific areas.

Advances in
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Chemistry, Volume 74,
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known for its
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of topics in
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synthesis, reactions,

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mechanisms,

homogeneous catalysis,
and more. It is ideal for

a wide range of

researchers involved in

organometallic

chemistry, with this

updated release

including chapters on

Metal dendrimers used

in biomedical

applications, Sigma-

bond activation

reactions induced by

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unsaturated osmium
(IV) complexes with
bulky phosphines, Base
metal pincer complexes,
and more. Contains
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chemistry Covers topics
in organometallic
synthesis, reactions,
mechanisms,
homogeneous catalysis,

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and more informs and updates readers on the latest developments in the field Carefully edited to provide easy-to-read material

With contributions from many of the world's leading scientists in the field of dendritic research and development,

Dendrimers and Other

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Dendritic Polymers

provides a comprehensive review of this rapidly expanding and exciting new field of polymer science. Of interest to academia and industry alike, this book covers the synthesis, characterization, unique properties, potential for novel applications and technical challenges

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associated with these polymers. * Detailed coverage of all known subclasses of dendritic polymers, including their properties and synthesis * Insight into the potential commercial applications of dendritic polymers, including drug delivery, cancer therapy, coatings and adhesives * Identification of the key

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Dendrimers In

trends and perspectives
in dendrimer research *
Essential reference for
polymer chemists,
materials scientists and
plastics engineers
working in academia
and industry alike

Dendrimers, which are
hyperbranched synthetic
macromolecules, have
attracted researchers '
increasing interest over

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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

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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.

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Supplemented with numerous references and abundant illustrations, the book opens new perspectives for the researchers working on dendrimers.

Dendrimer science has exploded onto the polymer science scene as the fourth major class of polymer architecture.

Capturing the history of

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dendrimer discovery to the present day, this book addresses all the essential information for newcomers and those experienced in the field, including: •

Fundamental theory, chemistry and physics of the 'dendritic state' •

Synthetic strategies (click chemistry, self-assembly, and so on) •

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characterization techniques •

Architecturally driven

'dendritic effects' •

Developments in

scientific and

commercial applications

- Convergence with nanotechnology, including dendrimer-based nanodevices, nanomaterials, nanotoxicology and nanomedicine •

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Dendrimers as a
window to a new nano-
periodic system.

Including first-hand
accounts from pre-1995
pioneers, progress in the
dendrimer field is
brought to life with
anticipated
developments for the
future. This is the ideal
book for researchers in
both academia and
industry who need a

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complete introduction
to the 'dendritic state'
with a special focus on
dendrimer and dendron
polymer science.

With chapters from
highly skilled,
experienced, and
renowned scientists and
researchers from around
the globe, Dendrimers
for Drug Delivery
provides an abundance

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of information on dendrimers and their applications in the field of drug delivery. The volume begins with an introduction to dendrimers, summarizing dendrimer applications and the striking features of dendrimers. It goes on to present the details of usual properties, structure, classification,

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and methods of synthesis, with relevant examples. The toxicity of dendrimers is also discussed. The chapter authors provide an exhaustive amount of information about dendrimers and their biomedical applications, including biocompatibility and toxicity aspects, a very useful feature. This

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informative volume will be valuable resource that will help readers to create products derived from dendrimers and navigate through the regulatory, manufacturing, and quality control hurdles. It will be an important resource for researchers, scientists, upper-level students, and industry professionals.

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