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**Microencapsulation: A promising
technique for controlled ... Polymers
Tailored for Controlled**

**(Bio)degradation Through ...
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Materials in Low-Density ... Polymer
Development - Polymeric Materials |
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Materials for Controlled Delivery
Systems US20150129808A1 -
Deformable polymer composites
with ... Polymers Tailored for
Controlled (Bio)degradation
Through ... Tailored polymeric
materials for controlled delivery ...
Tailored Porous Materials |
Chemistry of Materials In the
Limelight: 2D and 3D Materials via
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Tailored Polymeric Materials for
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McCulloch, EDITOR Hoechst-Celanese
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Poly-Med Inc. Developed from a
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Polymer Chemistry at the 214th National
Meeting of the American Chemical
Society, Las Vegas, Nevada, September
7-11, 1997

~~Polymers for Drug Delivery Systems— PubMed Central (PMC)~~

Tailoring of porous materials involves not only chemical synthetic techniques for tailoring microscopic properties such as pore size, pore shape, pore connectivity, and pore surface reactivity, but also materials processing techniques for tailoring the meso- and the macroscopic properties of bulk materials in the form of fibers, thin films, and monoliths.

~~Polymers tailored for controlled (Bio)degradation through ...~~

Generally hydrophilic polymers, hydrophobic polymers or a combination of both are used for the microencapsulation process. A number of coating materials have been used successfully; examples of these include

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Abstract Series
gelatin, polyvinyl alcohol, ethyl cellulose,
cellulose acetate phthalate and styrene
maleic anhydride.

~~Tailored polymeric materials for
controlled delivery ...~~

Tailored polymeric materials for
controlled delivery systems.

Washington, DC : American Chemical
Society, 1998 (DLC) 98025962

(OCOLC)39257290: Material Type:

Conference publication, Document,

Internet resource: Document Type:

Internet Resource, Computer File: All

Authors / Contributors:

~~Microencapsulation: A promising
technique for controlled ...~~

Polymeric materials have widespread
application due to their versatile
characteristics, cost-effectiveness, and
highly tailored production. The science
of polymer synthesis allows for excellent
control over the properties of a bulk
polymer sample.

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(Bio)degradation Through ...~~

Tailored polymeric materials that have biomimetic properties for applications as artificial biological tissues and implants are also required . In this regard, photoRDRP may prove pivotal due to the fine level of control over material properties possible through these techniques [123].

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Controlled Delivery Systems~~

Biodegradable polymers special type of dissolution-controlled system, 36/ See also Lactic/glycolic acid (LGA) oligomers Blindness, untreated cytomegalovirus (CMV) retinitis, 3 Branched polymeric micelles encapsulation studies using fluorescence spectroscopy, 123 experimental materials, 118 *H NMR spectrum of core(hex) compound, 121, 122/

~~Polymeric materials for photon
management in photovoltaics ...~~

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The imprinted polymers were easily tailored to release HA at the therapeutic level of $6 \mu\text{g hr}^{-1}$ for 24 hours, which is superior to the control polymer profile. Structural studies confirmed that the addition of monomers did not result in a change in the mesh size, thus causing the decrease in diffusion in the MIPs.

~~Sequence Controlled Polymers | Science~~

There are a vast variety of polymeric materials used in low-density gastroretentive systems and a number of methods to improve the bioavailability of the drugs. This works aims to expedite the development of breakthrough approaches by providing an in-depth understanding of the polymeric materials currently used, both natural and synthetic ...

~~Polymers | Special Issue : Tailored Polymer Synthesis by ...~~

End-group modification of polymers is a powerful tool for tailoring polymer properties. Objective: The review

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provides a brief description of the functional moieties and an outline of synthetic...

~~In-Depth Study into Polymeric Materials in Low Density ...~~

With the continuous development of photovoltaic device architectures and designs, the engineering of novel photon management strategies and the availability of suitably tailored polymeric materials for such applications will contribute to enhanced device efficiencies as well as sustained long-term performance.

~~Polymer Development—Polymeric Materials | ETH Zurich~~

Controlled Polymers Nature has achieved exquisite sequence control in the synthesis of polymers like DNA. In contrast, synthetic polymers rarely have the same fidelity in their chemistry or...

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Controlled

The molecular engineering design and application of polymeric materials for use in delivery systems has evolved into one of the most promising advanced technology areas of polymer science as well as contemporary medical, pharmaceutical, and agricultural science. This volume opens with two chapters providing a perspective on current topics in the field.

~~Tailored Polymeric Materials for
Controlled Delivery Systems~~

Tailored polymeric materials for controlled delivery systems.

Washington, DC : American Chemical Society, 1998 (OCoLC)645803443:

Material Type: Conference publication,

Internet resource: Document Type:

Book, Internet Resource: All Authors /

Contributors: Iain McCulloch; Shalaby W Shalaby; American Chemical Society.

Division of Polymer Chemistry.

~~US20150129808A1~~ Deformable

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~~polymer composites with ...~~

These advanced polymerization techniques offer unprecedented opportunities in the tailored synthesis of an gigantic family of new polymers of various controlled macromolecular chain parameters, including molecular weight and distribution, chain architecture, comonomer composition and distribution, stereoregularity, etc., that suit diverse specific applications.

~~Polymers Tailored for Controlled
(Bio)degradation Through ...~~

There are different techniques to prepare novel polymer materials with various architectures and specific groups via a variety of reaction mechanisms of different complexity. End-group modification of polymers is a powerful tool for tailoring polymer properties.

~~Tailored polymeric materials for
controlled delivery ...~~

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~~Tailored Porous Materials | Chemistry of Materials~~

The present invention generally relates to deformable polymer composites, and more particularly to, deformable polymer composites with controlled electrical performance during deformation through tailored strain-dependent conductive filler contact. According to embodiments, a deformable elastomeric conductive material includes: an elastomeric polymer matrix; and conductive filler material ...

~~In the Limelight: 2D and 3D Materials via Photo-Controlled ...~~

The group seeks to develop new polymerization strategies for the synthesis of advanced materials with controlled dispersity, functionality and architecture. ... novel functional and sequence-controlled polymers. Key to our approach is to simplify our polymerization protocols and expand the

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access and availability of tailored
polymeric materials...

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