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A new platform shape
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system for biomedical
device applications is
reported that exhibits a

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unique blend of tunable, high performance mechanical attributes in combination with advanced processing capabilities and good biocompatibility. A post-polymerization crosslinking synthetic approach is employed that combines polyurethane and thiol-ene synthetic processes, and a ...

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Biotechnology and
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Polymers represent the
largest and versatile
class of

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...

The papers should hold
a significant novelty in
the design of the

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polymer systems
and/or in the
biomedical applications
to be considered for
publication. New
polymer systems for
potential
bioapplications will be
considered only if they
offer thorough analysis
and characterization of
the polymer system
which justifies the
suitability of the
developed polymer
system for its intended
applications.

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Polymers for Biomedical Applications

Professor Thomas's research group has specialized in many areas of polymers, which includes polymer blends, fiber-filled polymer composites, particulate-filled polymer composites and their morphological characterization, ageing and

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degradation,
pervaporation
phenomena, sorption
and diffusion,
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rubbers, elastomeric ...

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Ravichandran R(1),
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novel techniques for
the preparation and
characterization of
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researchers, scientists
and engineers to
understand and utilize
their enhanced
functionality in a range

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of cutting-edge
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applications.

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polymers for
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transparent, a benefit
for biomedical
applications. During
the nanoimprinting, in
each case, the entirety
is heated at a
temperature above
that of the polymer's
glass transition

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temperature before pressure is applied, which forces the master into the softened polymer. After a predetermined time, the system is cooled to below that of

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dendrimers for biomedical application in drug delivery system. 3. In-situ gels as drug carriers: current trends and approaches. 4. Recent advancements in biomedical applications of conducting polymers and their composites. 5.

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temporally controlled drug delivery systems. In this review, we provide an overview of LCST and UCST polymers used as building blocks for thermoresponsive nanocarriers for biomedical applications. Recent nanocarriers based on thermoresponsive polymer exhibiting unprecedented

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Biomedical Polymer.
Biomedical polymers
have and still continue
to play an important
role in how we support
and treat patients with
various diseases
through their use in
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interacting medical devices and drug delivery systems.

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Jun 24;4(9):1386-98.
doi: 10.1002/adhm.201
500156. Epub 2015 Apr
30. Authors Keith ...

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sheds some light on
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this article, we
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over the past three

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years, with a focus on materials/ technical challenges and the approaches used to resolve these problems.

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Moreover, shape-morphing polymer-based materials are great candidates for biomedical applications due to their adaptive properties, controlled shape transformations, and enriched functionality. In this review, we focus on

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the recent progress in
the field of shape-
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highlighting their most
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