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*characteristics and biomedical applications.*

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Wei He, Roberto Benson, in  
Handbook of Polymer Applications  
in Medicine and Medical Devices,*

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2014. 4.3.3 Natural Polymers.

*Natural polymers are finding increasing applications in the area of bone replacement and hard tissue augmentation. Ideally, materials used for such purpose should be biocompatible; able to mimic the three-dimensional ...*



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*Natural Polymer - an overview |  
ScienceDirect Topics*

*Over the last decades, alginates,  
natural multifunctional polymers,  
have increasingly drawn attention  
as attractive compounds in the  
biomedical and pharmaceutical*

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*fields due to their unique physicochemical properties and versatile biological activities. The focus of the paper is to describe biological and pharmacological activity of alginates and to discuss the present use and future ...*

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*Alginate: Current Use and Future Perspectives in ...*

*A gel is a semi-solid that can have properties ranging from soft and weak to hard and tough. Gels are defined as a substantially dilute cross-linked system, which*

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*exhibits no flow when in the steady-state. A gel has been defined phenomenologically as a soft, solid or solid-like material consisting of two or more components, one of which is a liquid, present in substantial quantity.*

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*Gel - Wikipedia*

*Chitosan is a linear polysaccharide composed of randomly distributed  $\beta$ -(1-4)-linked D-glucosamine and N-acetyl-D-glucosamine units (). Commercially, it is produced by*

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*the exhaustive deacetylation of chitin (> 60%), a structural element in the exoskeleton of crustaceans and insects, which is the second most abundant natural biopolymer after cellulose*  
, .

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*Chitosan-based hydrogels for controlled, localized drug ... In addn., their morphol. and biomedical applications were also introduced. At the end of this review, we discussed the current challenges to the development of multi-layered hydrogels and*

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*pointed out that 3D printing may provide a new platform for the design of multi-layered hydrogels and expand their applications in the biomedical field.*

*Mechanical Characterization of Multilayered Hydrogels: A ...*



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*This 5-volume handbook is the first reference ever published on this topic which covers all aspects of ceramic nanomaterials and their applications from science to engineering. The synthesis, processing, fabrication, characterization, properties and*

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*devices at nanoscale are  
discussed.*

*American Scientific Publishers  
Tissue engineering (TE) and  
regenerative medicine integrate  
information and technology from  
various fields to restore/replace*

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*tissues and damaged organs for medical treatments. To achieve this, scaffolds act as delivery vectors or as cellular systems for drugs and cells; thereby, cellular material is able to colonize host cells sufficiently to meet up the requirements of regeneration and*

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...

*Polymers | Free Full-Text | A  
Comparative Review of ...  
Temperature-responsive  
polymers or thermoresponsive  
polymers are polymers that  
exhibit a drastic and*

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*discontinuous change of their physical properties with temperature. The term is commonly used when the property concerned is solubility in a given solvent, but it may also be used when other properties are affected. Thermoresponsive*

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*polymers belong to the class of  
stimuli-responsive materials ...*

*Temperature-responsive polymer  
- Wikipedia*

*Over the last twenty years,  
researchers have focused on the  
potential applications of*

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*electrospinning, especially its scalability and versatility. Specifically, electrospun nanofiber scaffolds are considered an emergent technology and a promising approach that can be applied to biosensing, drug delivery, soft*

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*and hard tissue repair and  
regeneration, and wound healing.  
Several parameters ...*

*Polymers | Free Full-Text |  
Electrospun Nanofibrous ...*

*1. Katzberg, A. A. Distance as a  
factor in the development of*



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*attraction fields between growing tissues in culture. Science 114, 431-432 (1951).. ADS CAS Google Scholar . 2. ...*

*Effects of extracellular matrix viscoelasticity on ...  
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Yanli Zhao\*, Responsive  
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Host-Guest Recognition for  
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Automated Essay Evaluation:  
Current Applications and New  
Directions. Language Testing,*

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32(4), 543–545. Han, S., & Shin, J.-A. (2015). Register variation in the lexico-grammatical and functional usages of MAKE and TAKE. *Korean Journal of English Language and Linguistics*, 15(4), 917-939.

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