Patent Search

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Abstract:

A THERMO-GELLING SOLUTION AS UNIQUE MATERIALS FOR THERAPEUTIC AND BIOSENSOR APPLICATIONS A method of thermo-gelling solution as unique materials for therapeutic and biosensor applications. Selecting electronic components useful for sensing or detecting one or more analytes, signals or conditions; storing data from said electronic components, transmitting or generating an output signal. The nanoparticles range in size from about 5.0 nm to about 10.0 nm; wherein said metallic nanoparticle is useful as an antimicrobial, wherein the nanoparticles range in size from about 2.0 nm to about 75 nm. Exposing the extrusion with a second solvent to dehydrate the extrusion, stretching the extrusion, and then removing the second solvent from the extrusion. Forming the extrusion into a structure shaped for a treatment that is a member of the group consisting of abdominal aortic aneurysm, thoracic aortic aneurysms. Specific charge state of the cationic polyelectrolyte for precipitation or gelation is obtained by proton transfer from the polyelectrolyte to the weak electrolyte upon heating said solution, resulting in partial neutralization of the polyelectrolyte.

Complete Specification

Description:A THERMO-GELLING SOLUTION AS UNIQUE MATERIALS FOR THERAPEUTIC AND BIOSENSOR APPLICATIONS
BACKGROUND
Technical Field
[0001] The embodiments herein generally relate to a method of thermo-gelling solution as unique materials for therapeutic and biosensor applications.
Description of the Related Art
[0002] Nanosized metallic particles, mainly gold and silver nanoparticles, have attracted attention because of their unique optical and electrical properties, as well as potential biomedical applications. Thus, depending upon their size, shape, surface area, surface plasmon and surface chemistry, these metallic nanoparticles are known to show distinct optical, magnetic, electrical and biological properties which are different from the bulk materials. Under normal circumstances, a laser light source incident upon a thin film is reflected or scattered, resulting in insignificant excitation of surface plasmon waves, which absorb only very little of the incident energy. At certain specific wavelengths of the laser source, however, plasmon resonance phenomena occur.
[0003] Even though colloidal solutions of silver exhibit unique optical and biological properties, the assembly of these particles into thin films is highly recommended for the development of practical applications [4]. Recently, techniques have been developed to immobilize silver nanoparticles on surfaces via surface modification techniques.
[0004] In one embodiment, conductive electrons in metal film, excited at such wavelengths, oscillate in phase with the incident energy, and strongly enhance the electromagnetic field at the interface between the film and insulator media, producing surface plasmon waves with large amplitude. Conductive matrices for hard-tissue repair are designed to provide adequate compositions and architectures that favor the ingrowth of hard-tissue by its own. They are inserted into a defect, thus contacting

View Application Status