
Bioactive Fibers And Polymers

marine bioactive fibers: alginate and chitosan fibers-a ... - marine bioactive fibers: alginate and chitosan fibers-a critical review volume 1 issue 6 - 2017 yimin qin,1,2 yunlong deng, 2 yuna hao, ni zhang, 2 xianming shang 1college of material and textile engineering, china 2state key laboratory of bioactive seaweed substances, china correspondence: yimin qin, college of material and textile **bioactive glass fibers - researchgate** - in literature bioactive glass fibers are mostly discussed when used as filler materials in composites. the low silica and high calcium oxide contents of typical bioactive glasses make them **polyvinylpyrrolidone modified bioactive glass fibers as ...** - the development of polyvinylpyrrolidone modified bioactive glass fibers through a sol gel process is described within this work. the addition of this polymer served as a means of modifying the rheological behavior of the sol and facilitating the spraying of discontinuous fibers. polyvinylpyrrolidone also acted to stabilize the sol, hindering its **encapsulation of bioactive compound in electrospun fibers ...** - encapsulation of bioactive compound in electrospun fibers and its potential application peng wen,† yan wen,† min-hua zong,† robert j. linhardt,‡ and hong wu*,†,§ †school of food science and engineering, south china university of technology, guangzhou 510640, china ‡department of chemical and biological engineering, center for biotechnology and interdisciplinary studies ... **bioactive glass fiber-reinforced pgs matrix composites for ...** - materials article bioactive glass fiber-reinforced pgs matrix composites for cartilage regeneration marina trevelin souza 1,*, samira tansaz 2, edgar dutra zanotto 1 and aldo r. boccaccini 2 1 certev—center for research, technology and education in vitreous materials, vitreous material laboratory, department of materials engineering, **fibre bioactive carbohydrates and dietary** - bioactive carbohydrates and dietary fibre is intended to be an international journal focused on dietary fibre, bioactive polysaccharides and glycoproteins. it will include original studies and comprehensive reviews on the primary structure, molecular characteristics including conformation, size and shape, **characterization of bioactive glass electrospun fibers and ...** - characterization of bioactive glass electrospun fibers and influence of rgd binding motifs on stem cell activity luís jorge marques de carvalho thesis to obtain the master of science degree in biological engineering supervisors: prof. frederico castelo alves ferreira dr. lorenzo moroni examination committee **delivering electrical and mechanical stimuli through ...** - delivering electrical and mechanical stimuli through bioactive fibers for stem cell tissue engineering ... delivering electrical and mechanical stimuli through bioactive fibers for stem cell ... fibers resulted in enhanced proliferation compared to tcps as evidenced by a 10% ... **hydrogel templates for rapid manufacturing of bioactive ...** - hydrogel templates for rapid manufacturing of bioactive fibers and 3d constructs ali amayol , t alireza hassani najafabadi , bahar aliakbarian , elmira arab-tehr a n y , mohsen akbari , nasim annabi , david juncker , * and ali khademhossein i * ... hydrogel templates for rapid manufacturing of bioactive fibers and 3d constructs ... **electrospinning of bioactive dex-paa hydrogel fibers by ...** - bioactive functionality, and (3) the fibers can be applied as a surface coating or comprise the scaffold itself. this is the first reported work of dex-paa hydrogel fibers formed via electrospinning and thermal cross-linking, and unique to this method, no toxic solvents or cross-linking agents are needed to create hydrogels or for surface **freeform extrusion fabrication of titanium fiber ...** - extrusion fabrication of silicate based 13-93 bioactive glass scaffolds reinforced with titanium fibers. a composite paste was prepared with 13-93 bioactive glass filled with titanium fibers (~16 µm in diameter and aspect ratio of ~250) having 0.1 to 0.4 vol. % of the bioactive glass scaffold. **bioactive applications for electrospun fibers - uah** - polymer reviews, 56, 631-667, 2016 bioactive applications for electrospun fibers jennifer quirós 1, karina boltes 1,2, roberto rosál 1,2 1 department of chemical engineering, university of Alcalá, e-28771 Alcalá de Henares, Spain 2 advanced study institute of Madrid, imdea-agua, parque científico tecnológico, e-28805, Alcalá de Henares, Madrid, Spain **submicron bioactive glass tubes for bone tissue engineering** - fibers. the submicron bioactive glass tubes generated using this approach could be highly suited for use in bone tissue engineering applications. 2. materials and methods 2.1. fabrication of submicron bioactive glass tubes and fibers a solution containing 1.34 g tetraethyl orthosilicate (teos) (sigma-aldrich, st. louis, mo), **bioactive nano-composite multifilament yarns - jeffjournal** - bioactive nano-composite multifilament yarns mohammad esmail yazdanshenas, ph.d., roghieh damerchely ph.d., ... melt-spun fibers were sputter coated with gold under vacuum for 5 minutes and visualized by sem. elemental analysis silver and titanium dioxide (tio₂) contents of **laser spinning of bioactive glass nanofibers**** - bioactive glass fibers as scaffolds for tissue engineering and investigated their production and bioactivity with interesting results. two main different techniques were initially employed to produce the glass fibers: spraying[6, 7] or dry-spinning[7, 8] of a sol-gel precursor or by directly melting the glass and forming it through a platinum ...

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