

## Polymer Vol 92, 1 June 2016

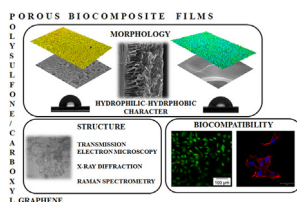
## Graphical abstracts

## POLYMER PAPERS

**Effect of carboxylic acid functionalized graphene on physical-chemical and biological performances of polysulfone porous films**

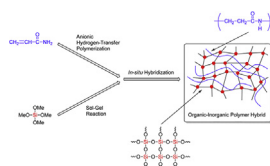
pp. 1–12

Mariana Ionita, Livia Elena Crica\*, Eugenia Vasile, Sorina Dinescu, Madalina Andreea Pandele, Marieta Costache, Håvard Jostein Haugen and Horia Iovu

**Synthesis of organic-inorganic polymer hybrids utilizing *in-situ* anionic hydrogen-transfer polymerization of acrylamide**

pp. 13–17

Takeru Iwamura\*, Kaoru Adachi and Yoshiki Chujo

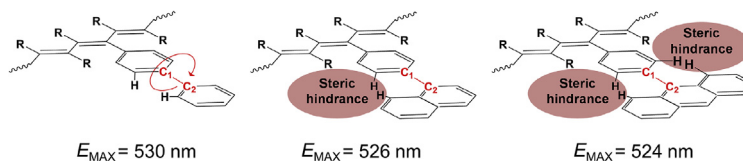


Homogeneous polymer hybrid consisting of poly( $\beta$ -alanine) and silica gel was synthesized by an *in-situ* anionic polymerization method. Acrylamide (AAm) as an organic monomer was introduced into a sol–gel reaction of tetramethoxysilane (TMOS). The polymerization of AAm was initiated by potassium *tert*-butoxide (*t*-BuOK), while sol–gel reaction of TMOS proceeded to generate a silica gel matrix. The obtained polymer hybrid was optically transparent and no phase separation was observed by SEM measurement. From the  $^1\text{H}$  NMR analysis, the anionic polymerization of AAm proceeded *via* a hydrogen-transfer process under *in-situ* hybridization conditions.

**Synthesis and emission properties of poly(diphenylacetylene)s having various aromatic rings**

pp. 18–24

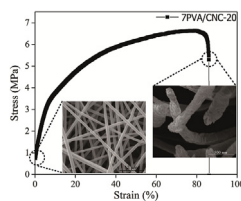
Shinobu Azuma, Toshikazu Sakaguchi\* and Tamotsu Hashimoto



## Manufacture of electrospun all-aqueous poly(vinyl alcohol)/cellulose nanocrystal composite nanofibrous mats with enhanced properties through controlling fibers arrangement and microstructure

pp. 25–35

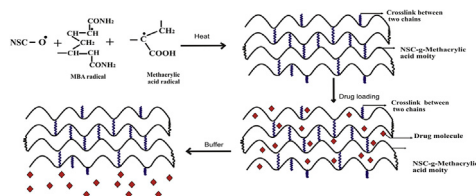
Siqi Huan, Long Bai, Wanli Cheng and Guangping Han\*



## Synthesis, characterization, properties of N-succinyl chitosan-g-poly (methacrylic acid) hydrogels and *in vitro* release of theophylline

pp. 36–49

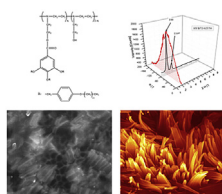
Shahid Bashir, Yin Yin Teo, S. Ramesh\* and K. Ramesh



## Liquid crystalline polymeric wires for selective proton transport, part 1: Wires preparation

pp. 50–57

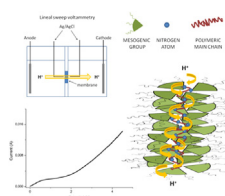
Krzysztof A. Bogdanowicz, Griffin A. Rapsilber, José A. Reina and Marta Giamberini\*



## Liquid crystalline polymeric wires for selective proton transport, part 2: Ion transport in solid-state

pp. 58–65

Krzysztof A. Bogdanowicz, Philippe Sistat, José A. Reina and Marta Giamberini\*



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