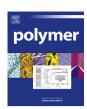


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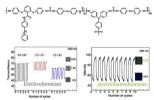
Welcome to the first issue of polymer for 2018! Leanne Mullen pp. A1-A3

POLYMER PAPERS

Electrochromic and electrofluorochromic behavior of novel polyurea bearing oligoaniline and triphenylamine units

pp. 1-7

Ying Yan, Ningwei Sun, Xiaoteng Jia, Xincai Liu, Ce Wang and Danming Chao*

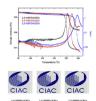


We report the synthesis of a novel polyurea, containing oligoaniline and fluorescent triphenylamine groups. The polyurea exhibits unique multistage regulated electrochromic feature and attractive electrofluorochromic behavior.

Colorless polyimides derived from isomeric dicyclohexyl-tetracarboxylic dianhydrides for optoelectronic applications

pp. 8-19

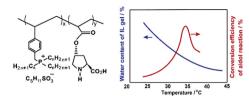
Xiaofan Hu, Hongliang Mu, Yongxia Wang, Zhen Wang and Jingling Yan*



Design of thermoresponsive poly(ionic liquid) gels containing proline units to catalyse aldol reaction in water

Akiyoshi Okafuji, Yuki Kohno, Nobuhumi Nakamura and Hiroyuki Ohno

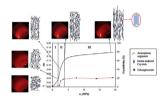
pp. 20-23



Evolution of structural mechanisms in thermoplastic polyimide (BTDA-DAH) from amorphous precursors as revealed by real-time uniaxial mechano-optical behavior

pp. 24-34

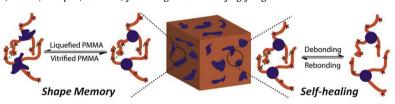
I. Offenbach, S. Gupta, R. Ma, G. Treich, G.A. Sotzing, R.A. Weiss and M. Cakmak*



Shape memory and self-healing materials from supramolecular block polymers

pp. 35-43

Jiuyang Zhang*, Mengmeng Huo, Min Li, Tuoqi Li, Naixu Li, Jiancheng Zhou** and Jing Jiang



Synthesis and characterization of a new poly(dithieno (3,2-b:2', 3'-d) pyrrole) derivative conjugated polymer: Its electrochromic and biosensing applications

pp. 44-52

Hacer Azak, Huseyin Bekir Yildiz* and Buket Bezgin Carbas**



In this work, the synthesis and characterization of a new generation dithieno pyrrole derivative conjugated polymer, bearing alkoxy amine units is presented. The polymer showed multi electrochromism, low band gap and fast switching times in near IR region. The biosensor of glucose oxidase enzyme constructed with conjugated polymer shows high sensitivity, fast response, no significant reduction in signal, high stability and long term reproducibility by the retaining enzyme activity.

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