The 9th Spring Meeting

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Electrochemical Sensors:
From nanoscale engineering
to industrial applications

May 8 to 11, 2011 Turku, Finland

Book of Abstracts

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Electro-responsive Properties of Star Shaped SNS Derivative

Metin Ak[1], Ibrahim Yagmur[1], Levent Toppare[2]
[1]*Chemistry Department, Pamukkale University, Denizli, TURKEY*
[2]*Chemistry Department, Middle East Technical University, Ankara, TURKEY*
metinak@pau.edu.trs

Building super-structured CPs is of great interest because of the novel properties that could arise from such structures.[8–11] Branched conducting polymers with electronically-connected nodes are excellent candidates among this family of super structured CPs; with such polymers, there should be no need for inter-chain coupling or inter-chain electronic transfer to ensure high electronic conductivity. Moreover, this type of material possesses a three dimensional structure which could also improve the conductivity.[1]

In this work, we synthesized a new star-shaped SNS derivative (2,4,6-tris(4-(2,5-di(thiophen-2-yl)-1H-pyrrol-1-yl)butylamine)-1,3,5-triazine) (Fig.1). Electrochemical and electrochromic properties of SNS derivative were investigated.

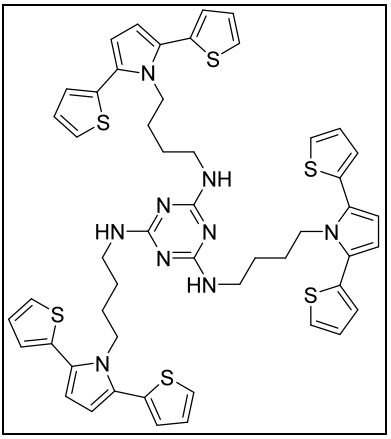

Fig.1 Star-shaped SNS derivative

Reference:
[1] Electrochemical Properties of a New Star-Shaped Pyrrole Monomer and its Electrochromic Applications, M. Ak, M. S. Ak, L. Toppare , Macromol. Chem. Phys. 2006, 207, 1351–1358