

## **SYNTHESIS AND CHARACTERIZATION OF POLYMER FILMS BASED ON BIS(EDOT)-SUBSTITUTED THIOPHENES**

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### **ABSTRACT**

A series of polymers based on 2,5-bis[(3,4-ethylenedioxy)thien-2-yl]-substituted thiophene monomers have been electropolymerized. Thin polymer films exhibited electrochromism and their photoluminescence (PL) is in the orange and red regions. Cyclic voltammetry (CV), infrared (IR), UV-vis-NIR and PL spectroscopy were employed to investigate and characterize the properties of these new polymers.

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