

## Supporting Information

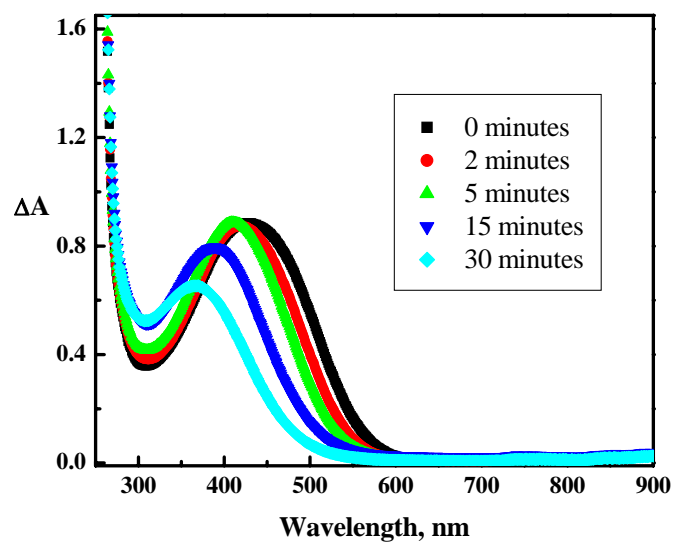
### Photodegradation of Polythiophene Based Polymers. Excited State Properties and Radical Intermediates.

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### Steady State Radiolysis of PTEBS Polymer Solution



Absorption spectra recorded following the gamma radiolysis of aqueous solution of PTEBS containing 0.1 M  $\text{NaN}_3$ . The experimental conditions reflect the reaction of the polymer with azide radicals (reaction 6 in the main text)