

## Electronic Supplementary Information

# Involvement of Halogen and Polyaromatic Substituents in Chalcone Derivatives as Dye-Sensitizer in Solar Cell Application

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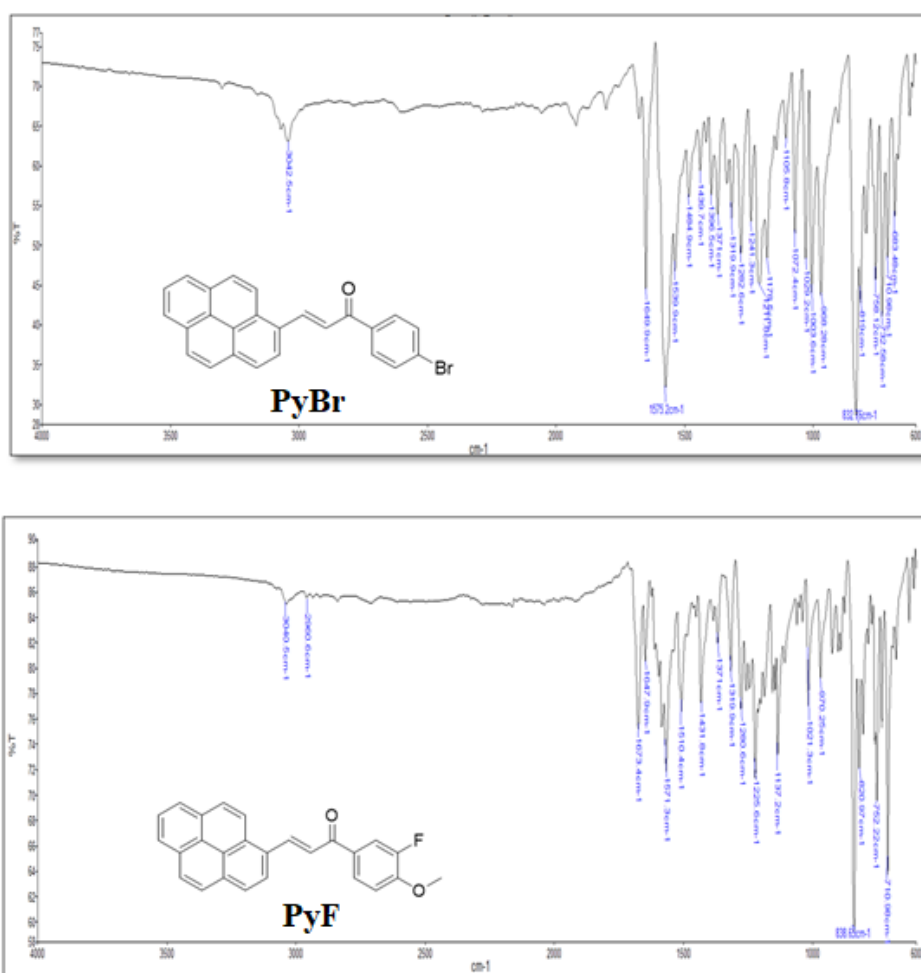
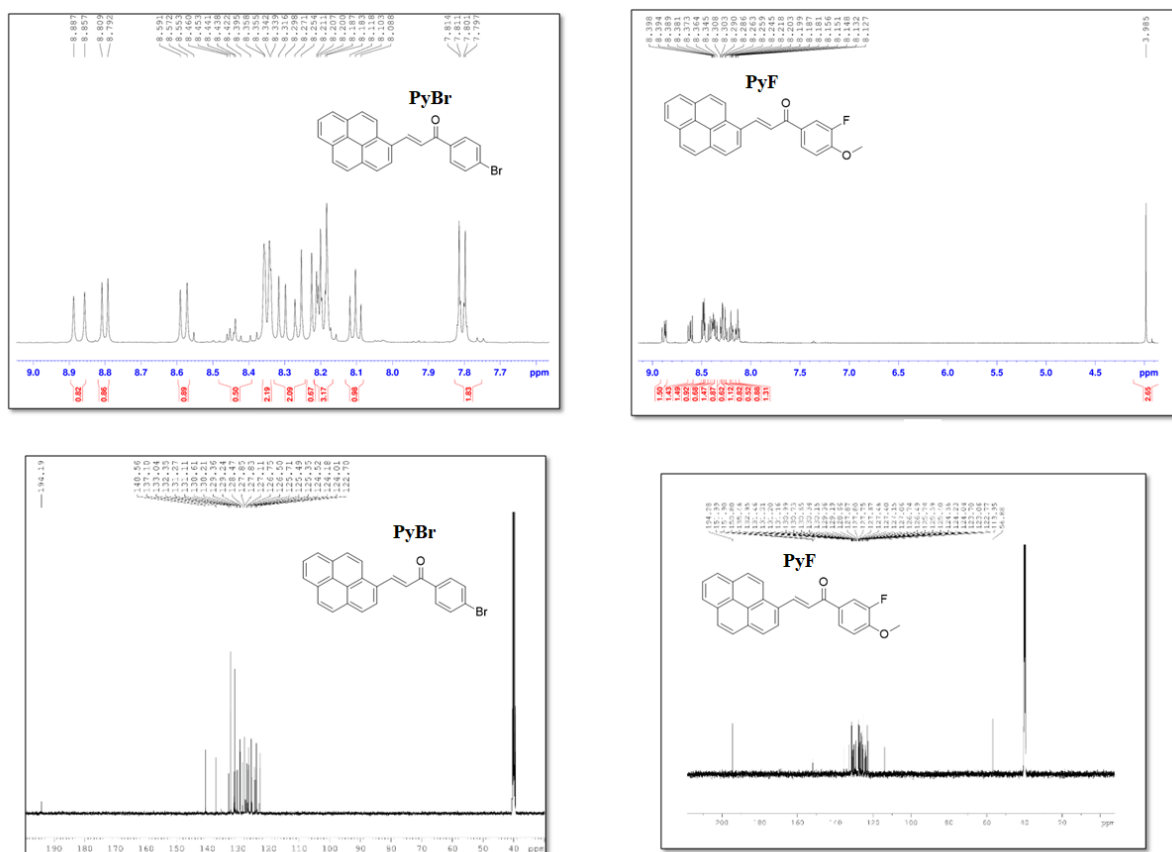
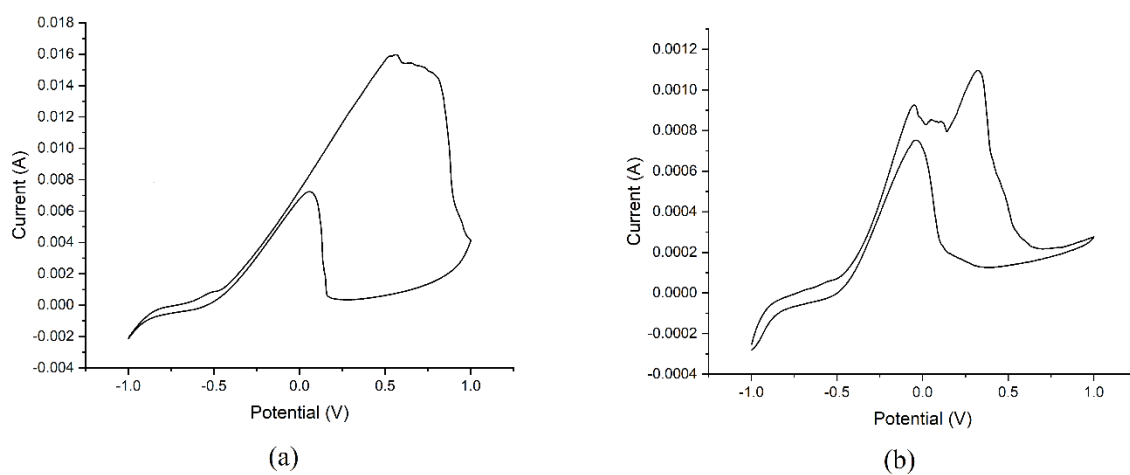


Figure S1. The FTIR spectrum of PyBr and PyF.



**Figure S2.**  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra of **PyBr** and **PyF**.



**Figure S3.** Cyclic voltammogram of **PyBr** and **PyF**.