

Supplementary Materials: Push-Pull Heterocyclic Dyes Based on Pyrrole and Thiophene: Synthesis and Evaluation of Their Optical, Redox and Photovoltaic Properties

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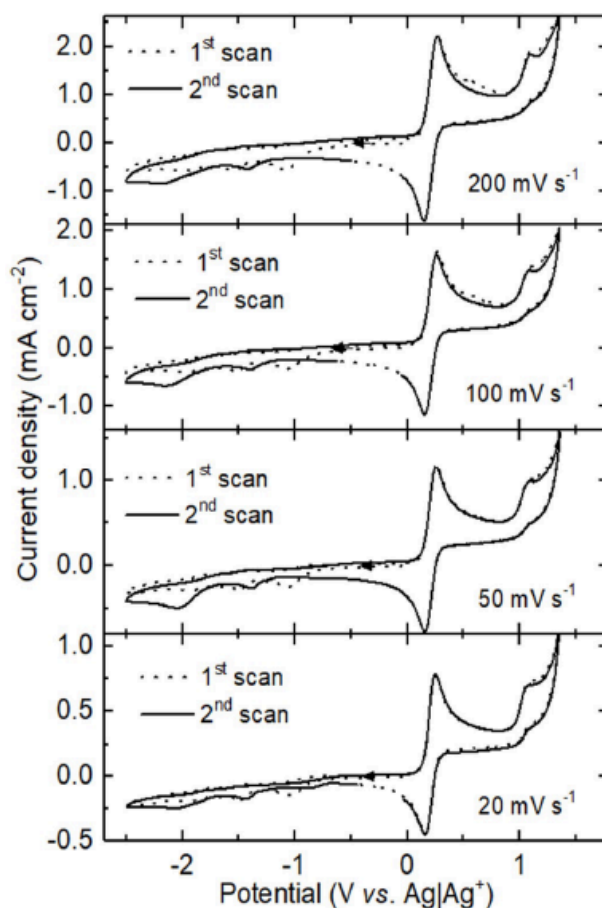


Figure S1. Cyclic voltammetry plots of compound 2-cyano-3-(5'-(4''-ethoxyphenyl)thieno[3,2-*b*]thiophen-2'-yl)acetic acid (**5**), in dry DMF ($C = 10^{-4}$ M). All the experiments were performed using glassy carbon as working electrode, a platinum wire as counter electrode, and acetonitrile Ag/Ag^+ electrode as reference. $[\text{NBu}_4][\text{BF}_4]$ (0.1 M) was used as supporting electrolyte and the collected data were referenced to the potential of Fc/Fc^+ couple.

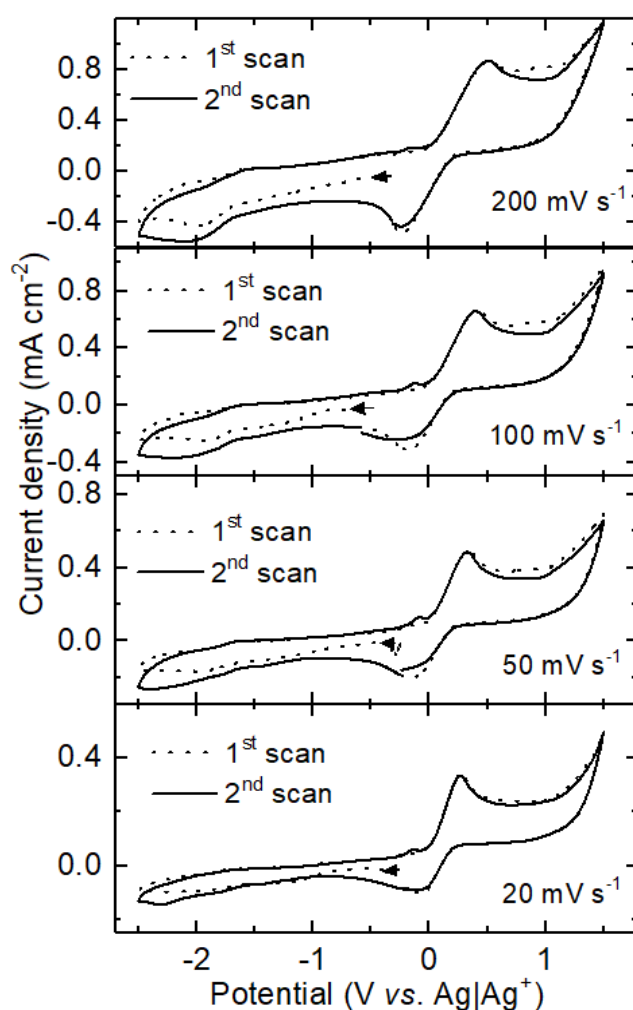


Figure S2. Cyclic voltammetry plots of compound 2-cyano-3-(5'-(4''-(1*H*-pyrrol-1'''-yl)phenyl)thiophen-2'-yl)acetic acid (**6**), in dry DMF ($C = 10^{-4}$ M). All the experiments were performed using glassy carbon as working electrode, a platinum wire as counter electrode, and acetonitrile Ag/Ag⁺ electrode as reference. [NBu₄][BF₄] (0.1 M) was used as supporting electrolyte and the collected data were referenced to the potential of Fc/Fc⁺ couple.

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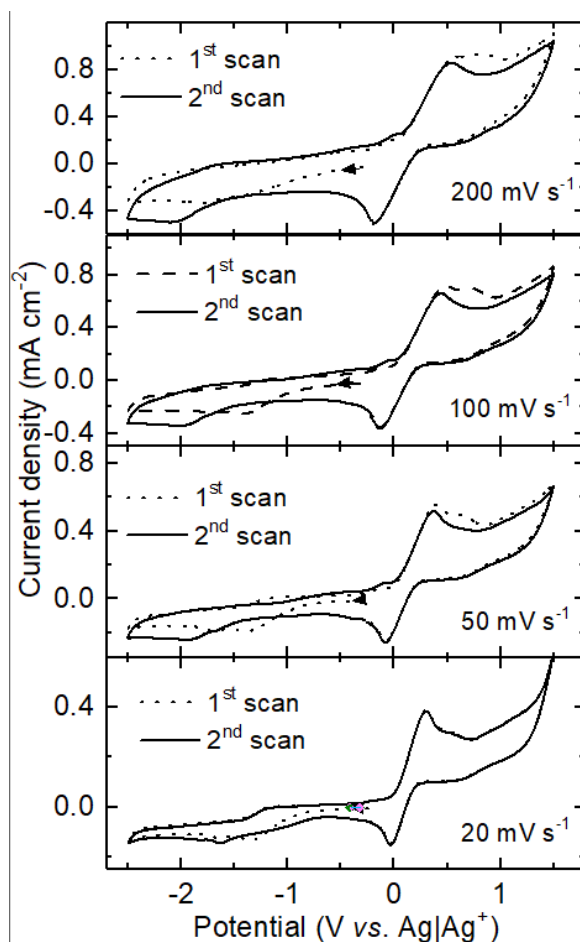


Figure S3. Cyclic voltammetry plots of compound 3,3-(thiophene-2'',5''-diyl-bis(1'-methyl-1*H*-pyrrole-5',2'-diyl))-bis(2-cyanoacetic acid) (**7**), in dry DMF ($C = 10^{-4}$ M). All the experiments were performed using glassy carbon as working electrode, a platinum wire as counter electrode, and acetonitrile Ag/Ag^+ electrode as reference. $[\text{NBu}_4][\text{BF}_4]$ (0.1 M) was used as supporting electrolyte and the collected data were referenced to the potential of Fc/Fc^+ couple.

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