

Influence of the heteroatom on the properties and transistor performance of soluble thiophene-, selenophene- and tellurophene-vinylene copolymers

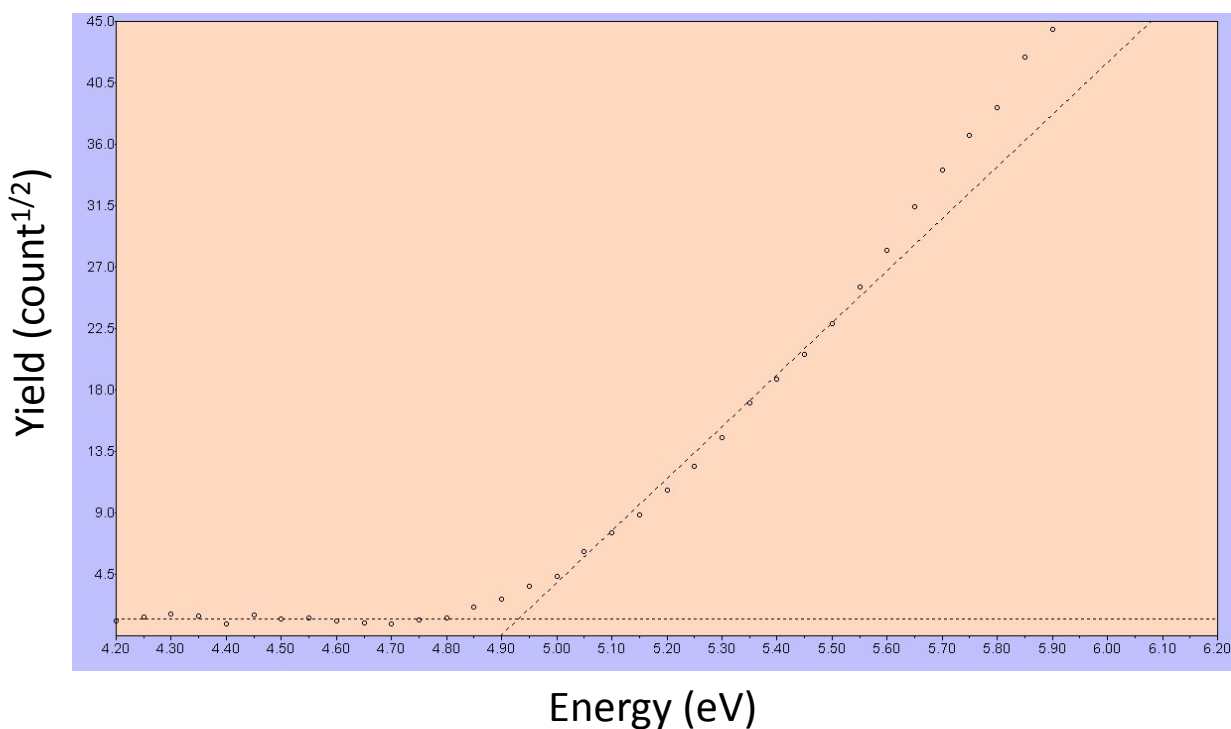


Figure S1. Photo Electron Spectroscopy in Air (PESA) spectra of a thin film of **P3TV**. The ionization potential was calculated by extrapolating a fit of the square root of the photoelectron emission yield as a function of excitation photon energy.

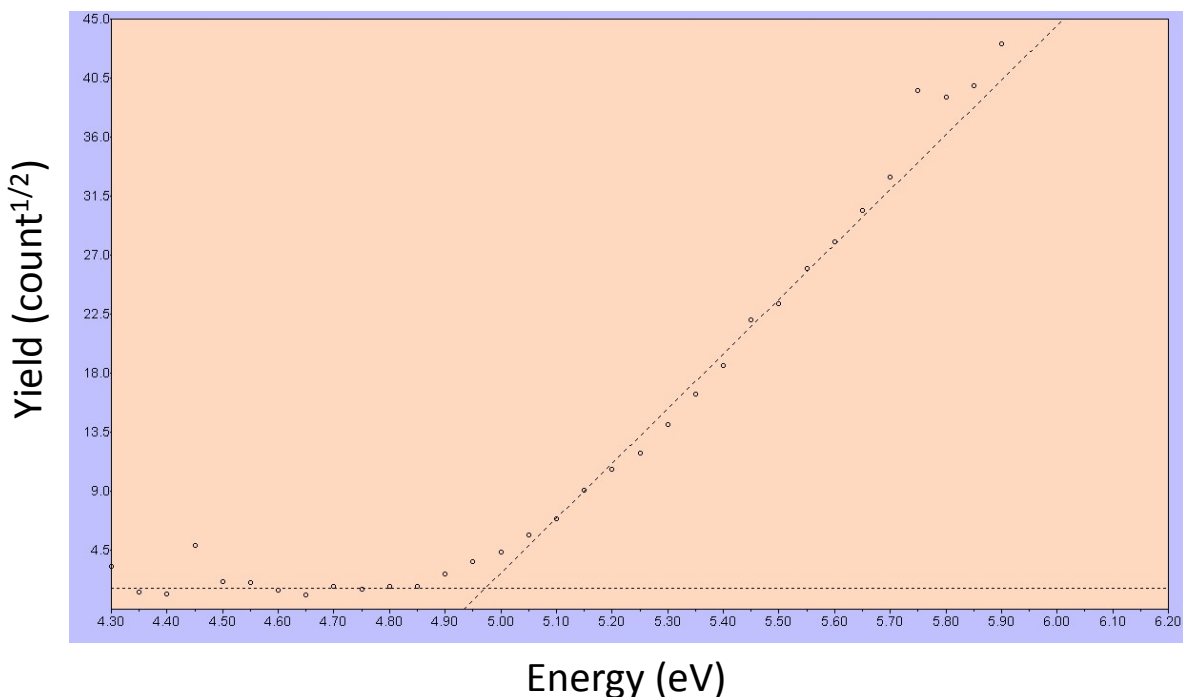


Figure S2. Photo Electron Spectroscopy in Air (PESA) spectra of a thin film of **P3SV**. The ionization potential was calculated by extrapolating a fit of the square root of the photoelectron emission yield as a function of excitation photon energy.

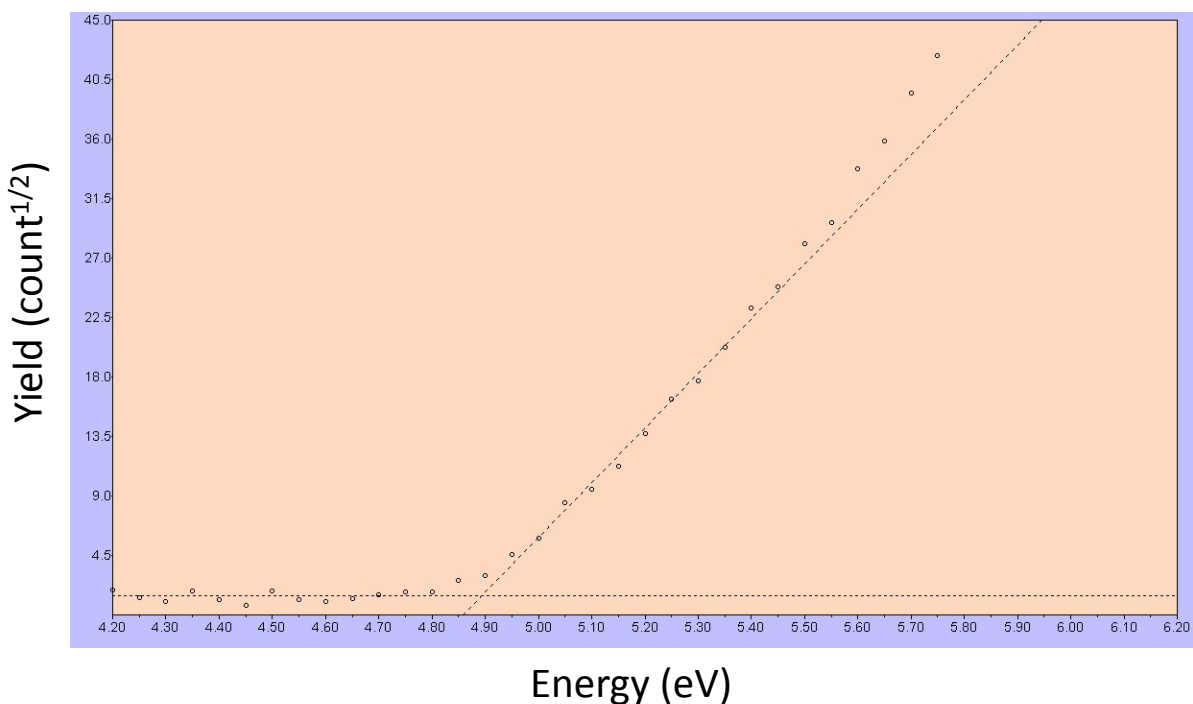


Figure S3. Photo Electron Spectroscopy in Air (PESA) spectra of a thin film of **P3TeV**. The ionization potential was calculated by extrapolating a fit of the square root of the photoelectron emission yield as a function of excitation photon energy.

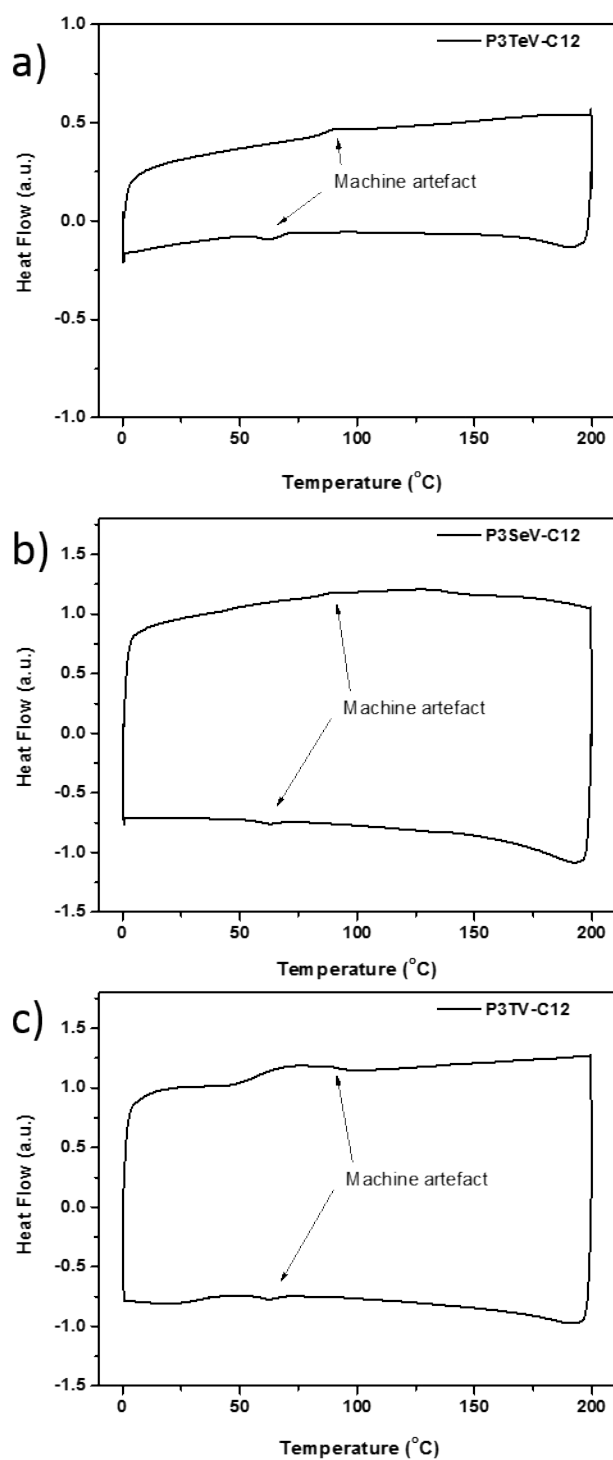


Figure S4. DSC plots (endo up) of a) P3TeV b) PSV and c) P3TV recorded at a heating and cooling rate of 10 °C min⁻¹ under nitrogen (second cycle).

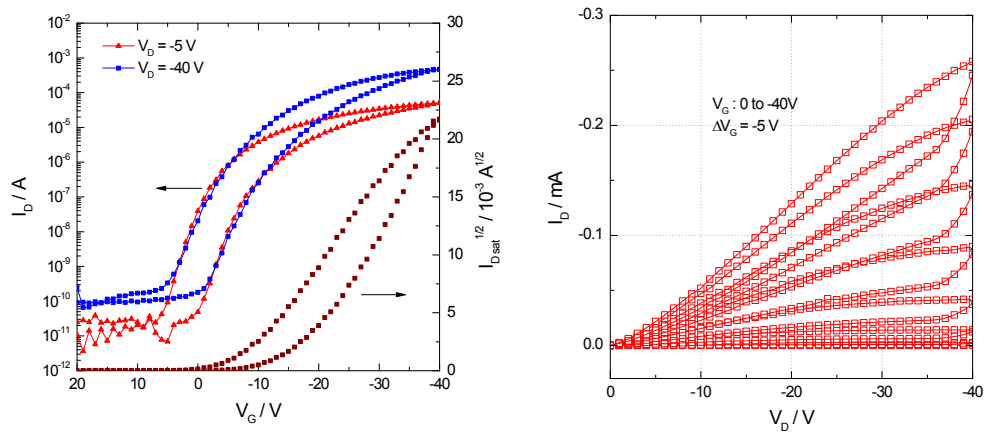


Figure S5. BG/BC transfer and output plots of **P3SV**.

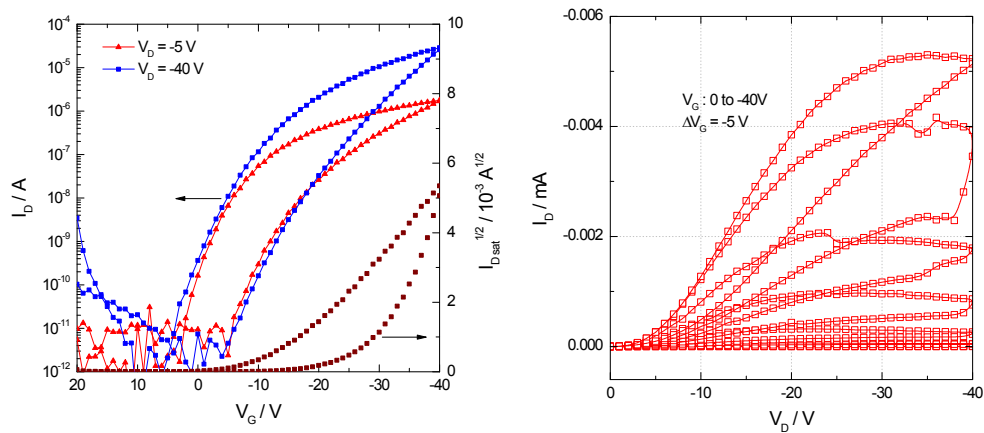


Figure S6. BG/BC transfer and output plots of **P3TeV**.

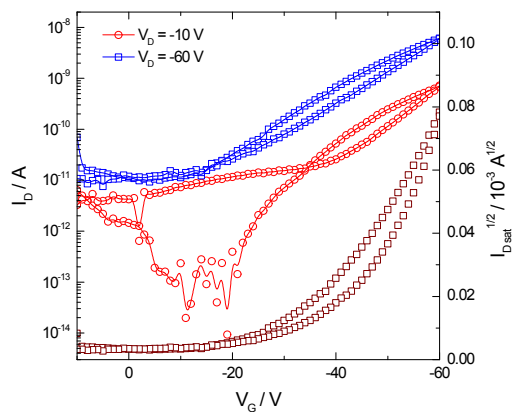


Figure S7. TG/BC transfer plots **P3TV** (channel length = 30 μm , width = 1000 μm)

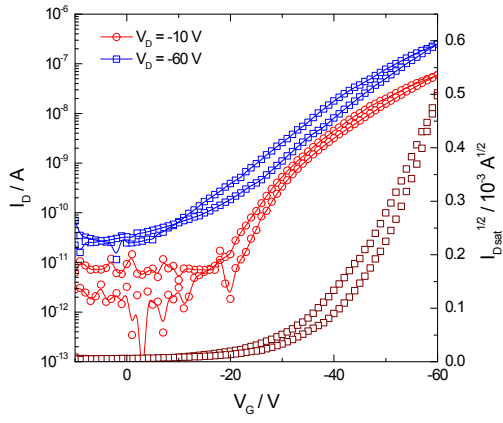


Figure S8. TG/BC transfer plots **P3SV** (channel length = 50 μm , width = 1000 μm)

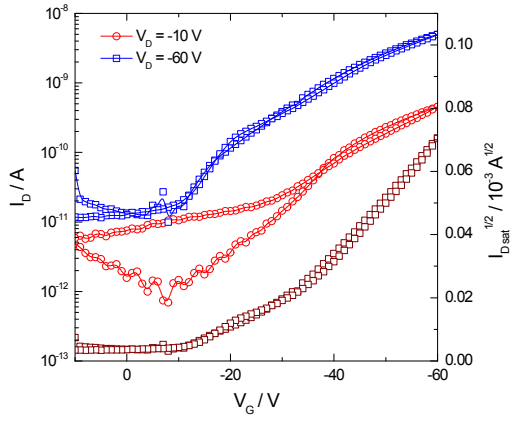


Figure S9. TG/BC transfer plots **P3TeV** (channel length = 50 μm , width = 1000 μm)

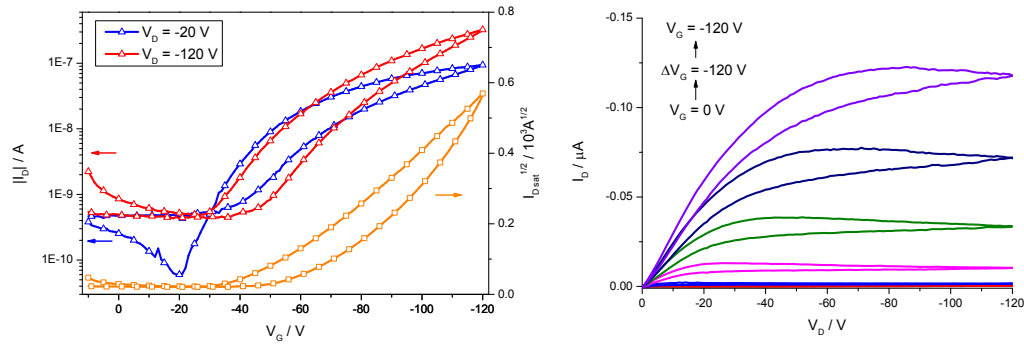


Figure S10. BG/TC transfer and output plots **P3TV**

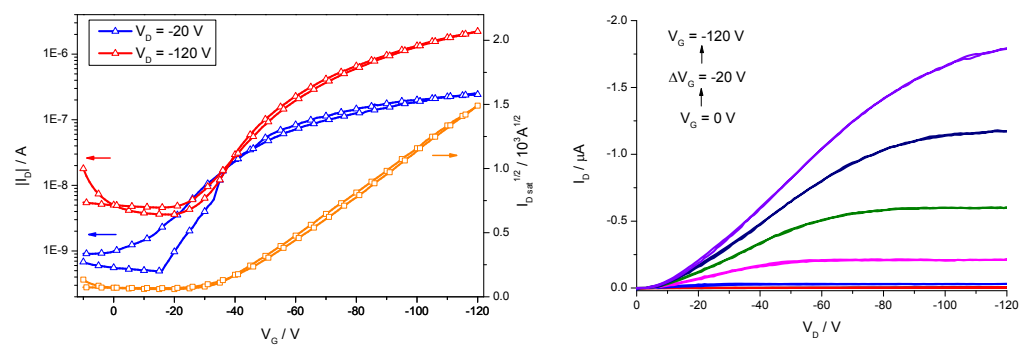


Figure S11. BG/TC transfer and output plots **P3SV**