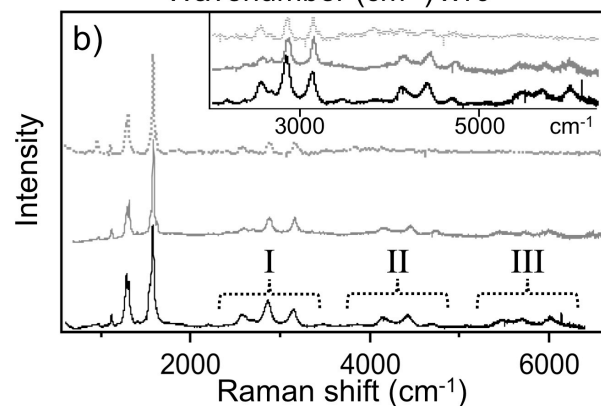
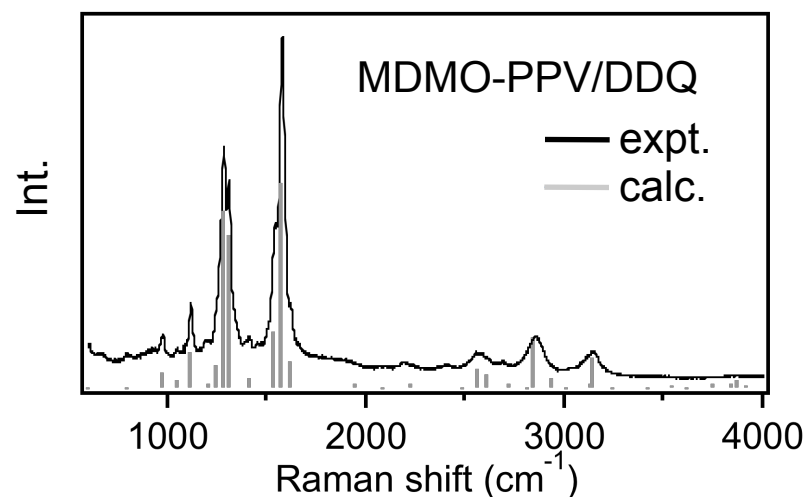
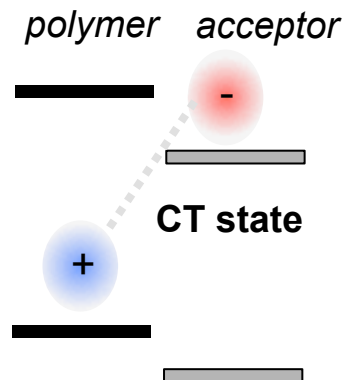
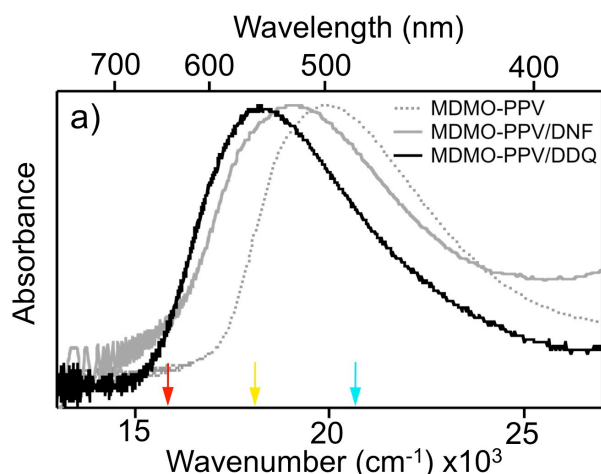


Uncovering and Understanding Morphology-Dependent Charge Transport and Trapping in Polymer Photovoltaic Materials

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Charge transfer (CT) complexes of MDMO-PPV blended with strong electron acceptors show distinct ground state structural and electronic interactions. Resonance Raman spectra of CT complexes reveals mode-specific structural displacements in the excited state (D^+A^-) which can be used to estimate CT vibrational reorganization energies.