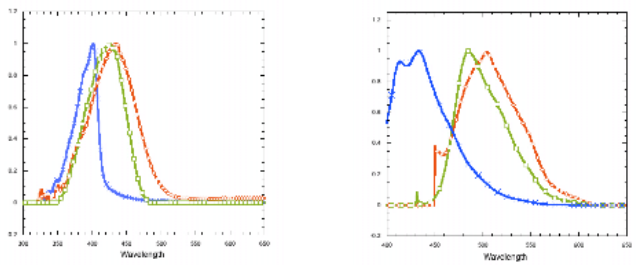
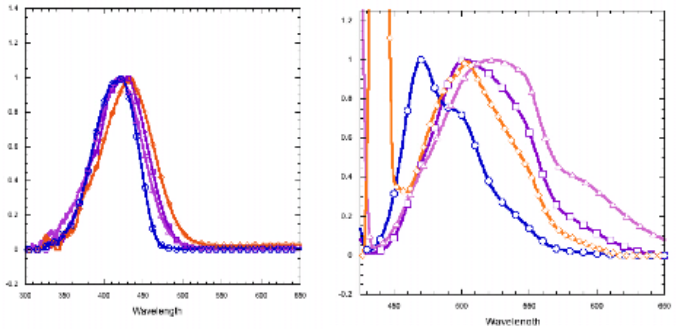
We are developing a library of oliogphenylene-based species in which core, terminal, and endcapping groups can be varied systematically.

UV/Vis and fluorescence data for dimeric and trimeric members of our library are shown here



UV/Vis (left) and Fluorescence (right) spectra (in methylene chloride) for the dimeric species: dibromo capped dimer (X), the bisdimesitylboron capped dimer (□) , and the anthraldehyde-phenylenevinylene dimer (♦)



UV/Vis (left) and Fluorescence (right) spectra (in methylene chloride) for the dibromotrimer (O, excitation at 425 nm), the anthracene core trimer (Δ), the di(bromoanthryl)trimer (□), and the anthraldehyde-phenylenevinylene dimer (♦)