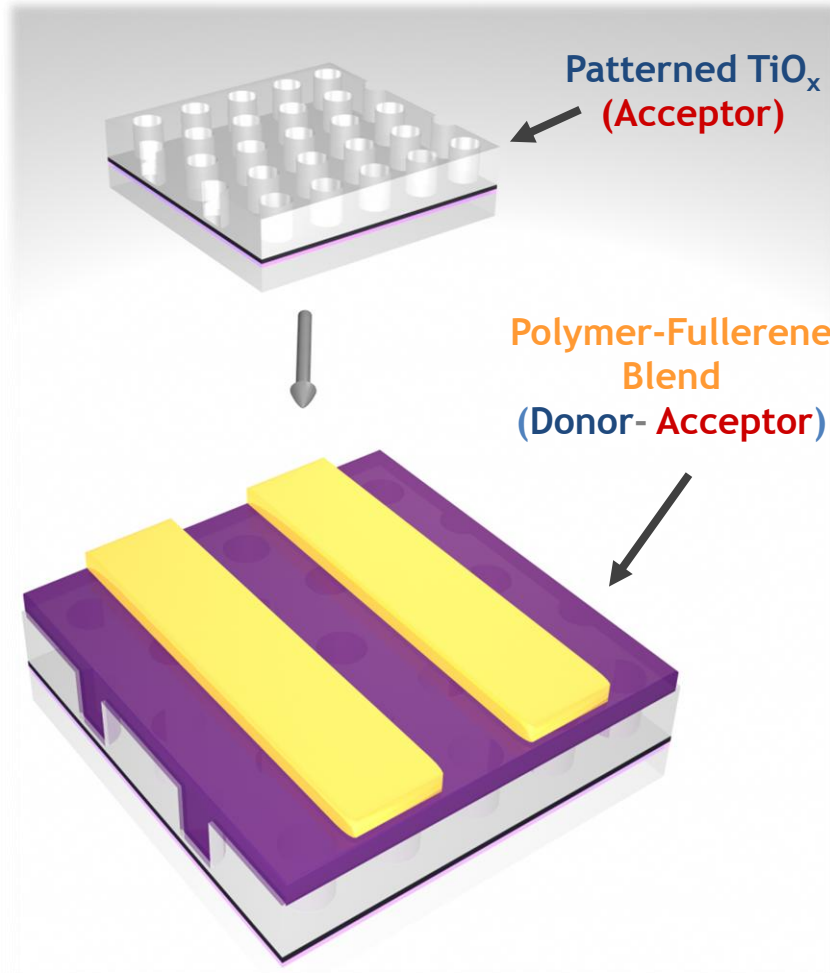




Fabrication of Nanostructured Hybrid Solar Cells Using Soft Imprint Lithography



Our research involves the fabrication of organic solar cells using soft imprint lithography. By using our stamping materials which can pattern sub-100nm features in fast and reliable manner, patterns of TiO_x were generated using a TiO_x sol-gel. The patterns were then filled with a P3HT:PCBM bulk heterojunction followed by evaporation of a gold electrode to generate an ordered bulk heterojunction solar cell.