

**SYSTEMATIC STUDY ON STRUCTURAL AND OPTICAL PROPERTIES IN
ORGANIC SEMICONDUCTORS AND ITS PROS AND CONS TO BE USED IN
MANUFACTURING SOLAR CELLS**

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ABSTRACT

Organic Semiconductor (Conjugated Polymer/Fullerene) based Solar cells represent an exciting alternative to inorganic ones because of their low production costs, flexibility and low weight. At present commercialization of organic photovoltaics (OPV) cells is limited due to their relatively low efficiency in comparison to the silicon ones. This paper is intended to research on the pros and cons of the OPV over the inorganic counterparts and possible methods to increase the efficiency of Organic Semiconductors.