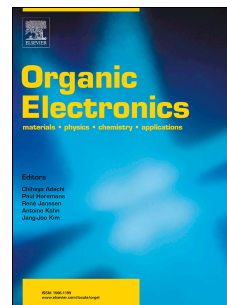


# Accepted Manuscript

Rational design of metal-free organic D- $\pi$ -A dyes in dye-sensitized solar cells: Insight from density functional theory (DFT) and time-dependent DFT (TD-DFT) investigations

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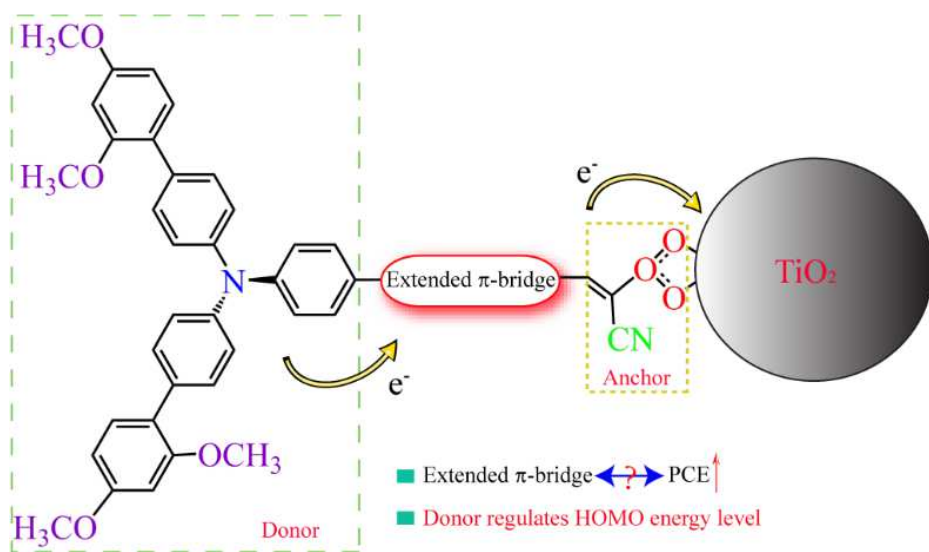
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