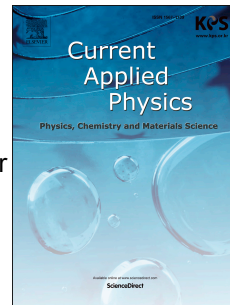


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Theoretical probe on modified organic dyes for high-performance dye-sensitized solar cell

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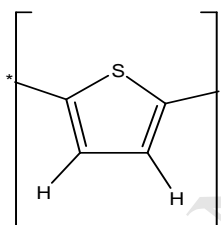
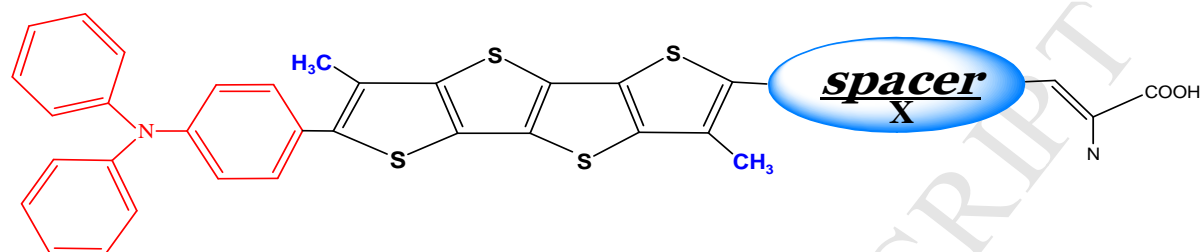
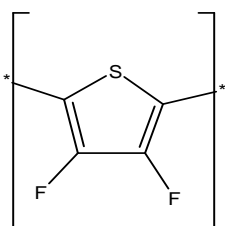
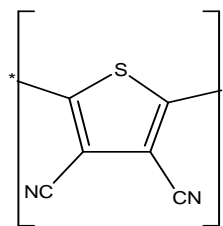
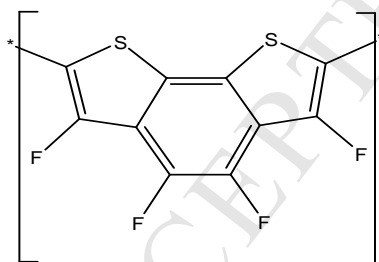
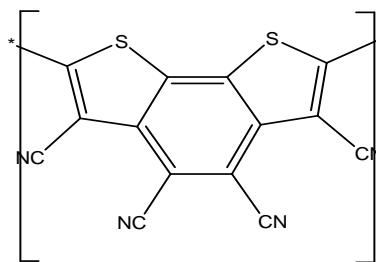
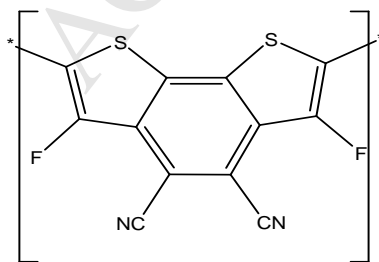
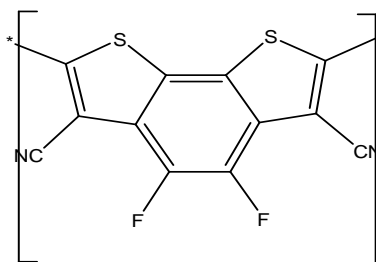
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Graphical Abstract

 $\text{X}=\text{T}$  $\text{X}=\text{2FT}$  $\text{X}=\text{2CNT}$  $\text{X}=\text{4FBDT}$  $\text{X}=\text{4CNBDT}$  $\text{X}=\text{2F2CNBDT}$  $\text{X}=\text{2CN2FBDT}$

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