

Supporting information

Designing Triphenylamine Derivative Dyes for Highly Effective Dye-Sensitized

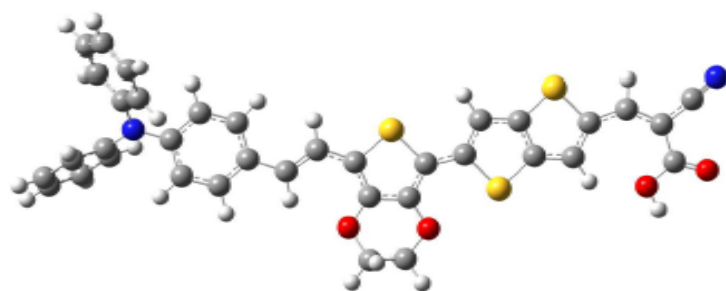
Solar Cells with Near-Infrared Light Harvesting up to 1100 nm

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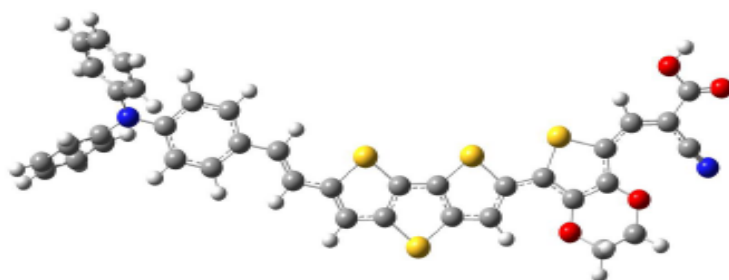
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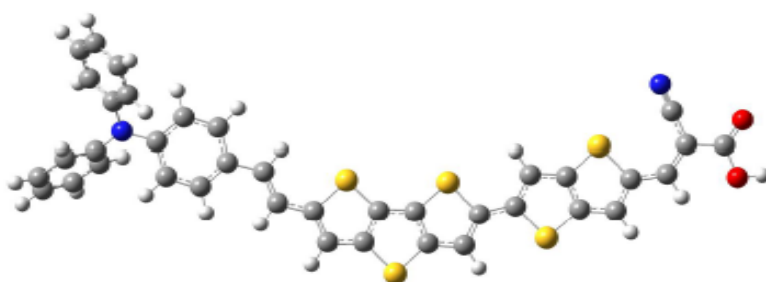
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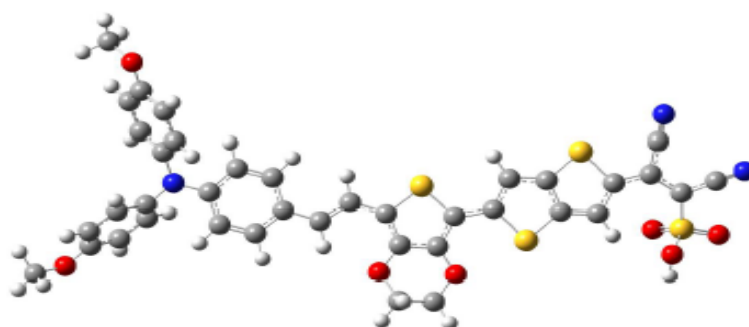
Pi10



Pi11



Pi12



BUCT2

Figure S1. The optimized geometric structures of Pi10-Pi12 and BUCT2 dyes