Thienoisoindigo end-capped molecular donors for organic photovoltaics: Effect of the central π-conjugated connector

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Résumé en anglais	The synthesis, characterization and preliminary evaluation of two thienoisoindigo (TII) based molecules as donor materials in air processed bulk heterojunction solar cells are reported herein. The latter were built by grafting TII dyes on two different π-conjugated central cores, namely the cyclopentadithiophene and the fluorene units. Once blended with fullerene derivatives, power conversion efficiencies approaching 3% were measured, ranking amongst the highest reported value for thienoisoindigo-based molecular materials.
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Liens

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