



Pentaerythritol based push-pull tetramers for organic photovoltaics

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Titre Pentaerythritol based push-pull tetramers for organic photovoltaics

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Auteur Labrunie, Antoine [1], Josse, Pierre [2], Dabos, Sylvie [3], Blanchard, Philippe [4], Cabanetos, Clément [5]

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Résumé en anglais The synthesis and characterization of two tetramers based on the functionalization of a central pentaerythritol σ -linker with push-pull chromophores is reported herein. Prepared in only few steps, these original molecules exhibit interesting optical and electrochemical properties. Moreover, once evaluated as donor materials, promising power conversion efficiencies of 4.5% were reached when blended with the [6,6]-phenyl-C71-butyric acid methyl ester (PC71BM) in bulk heterojunction solar cells.

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