



Manipulation of the electronic and photovoltaic properties of materials based on small push-pull molecules by substitution of the arylamine donor block by aliphatic groups

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Titre	Manipulation of the electronic and photovoltaic properties of materials based on small push-pull molecules by substitution of the arylamine donor block by aliphatic groups
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Auteur	Jiang, Yue [1], Cabanetos, Clément [2], Allain, Magali [3], Jungsuttiwong, Siriporn [4], Roncali, Jean [5]
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Résumé en anglais	Push-pull molecules with an arylamine donor block connected to a dicyanovinyl acceptor via a thienyl π -conjugating spacer have been synthesized in order to analyze the effects of replacing an outer phenyl ring of the triphenylamine (TPA) block of a reference compound by methyl, hexyl, heptafluoropentyl and dioxaocetyl groups. Optical, electrochemical and X-ray diffraction data show that these substitutions have minor influence on the energy levels of the molecule but exert a considerable effect on the structure, optical, electrical and photovoltaic properties of the resulting materials.
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Liens

- [1] <http://okina.univ-angers.fr/yuejiang/publications>
- [2] <http://okina.univ-angers.fr/clement.cabanetos/publications>
- [3] <http://okina.univ-angers.fr/magali.allain/publications>
- [4] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=26403>
- [5] <http://okina.univ-angers.fr/jean.roncali/publications>
- [6] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=5663>
- [7] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=4891>
- [8] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=4863>
- [9] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=10119>
- [10] <http://okina.univ-angers.fr/publications/ua15687>
- [11] <http://dx.doi.org/10.1016/j.orgel.2016.06.035>
- [12] <http://www.sciencedirect.com/science/article/pii/S1566119916302920>

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