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Synthesis and characterization of novel thieno[3,2-*b*]thiophene based metal-free organic dyes with different heteroaromatic donor moieties as sensitizers for dye-sensitized solar cells

Sara S.M. Fernandes, M. Cidália R. Castro, I. Mesquita, L. Andrade, A. Mendes, M. Manuela M. Raposo

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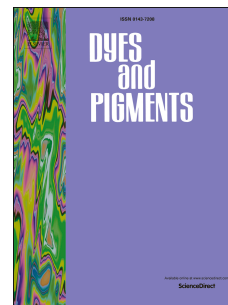
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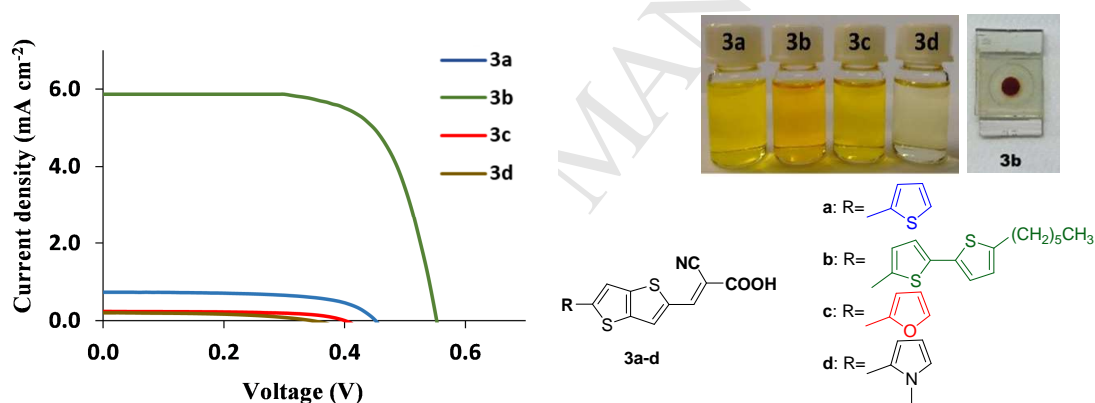


Graphical Abstract

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