



Contribution from a hole-conducting dye to the photocurrent in solid-state dye-sensitized solar cells

Submitted by Emmanuel Lemoine on Thu, 02/06/2014 - 11:25

Titre	Contribution from a hole-conducting dye to the photocurrent in solid-state dye-sensitized solar cells
Type de publication	Article de revue
Auteur	Unger, Eva-L. [1], Morandeira, A. [2], Persson, M. [3], Zietz, B. [4], Ripaud, Emilie [5], Leriche, Philippe [6], Roncali, Jean [7], Hagfeldt, Anders [8], Boschloo, Gerrit [9]
Type	Article scientifique dans une revue à comité de lecture
Année	2011
Langue	Anglais
Numéro	45
Pagination	20172-20177
Volume	13
Titre de la revue	Physical Chemistry Chemical Physics
ISSN	1463-9076
Résumé en anglais	The hole transporting medium in solid-state dye-sensitized solar cells can be utilized to harvest sunlight. Herein we demonstrate that a triphenylamine-based dye, used as hole-transporting medium, contributes to the photocurrent in a squaraine-sensitized solid-state dye-sensitized solar cell. Steady-state photoluminescence measurements have been used to distinguish between electron transfer and energy transfer processes leading to energy conversion upon light absorption in the hole-transporting dye.
URL de la notice	http://okina.univ-angers.fr/publications/ua2751 [10]
DOI	10.1039/c1cp22493j [11]

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