



Role of ITO and PEDOT:PSS in stability/degradation of polymer:fullerene bulk heterojunctions solar cells

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Titre	Role of ITO and PEDOT:PSS in stability/degradation of polymer:fullerene bulk heterojunctions solar cells
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Résumé en anglais	Two polymers:fullerene bulk heterojunction solar cells: [(I) poly[2-methoxy-5-(3,7-dimethyloctyloxy)]-1,4-phenylenevinylene (MDMO-PPV): methanofullerene phenyl-C61-butyric-acid-methyl-ester ([60]PCBM) and (II) poly(3-hexylthiophene-2,5-diyl), highly regioregular (P3HT): [60]PCBM] were studied. Indium tin oxide (ITO) and/or poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) (PEDOT:PSS) were/was used as transparent electrode, and lithium fluoride (LiF) was used as buffer layer for aluminium cathode. The role of ITO and PEDOT:PSS on the current-tension characteristics, on open circuit voltage V_{oc} , and on density of short-circuit current J_{sc} was investigated for the two polymers:PCBM blend solar cells as deposited and after 40 days ageing.
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- [2] [http://okina.univ-angers.fr/publications?f\[author\]=2770](http://okina.univ-angers.fr/publications?f[author]=2770)
- [3] [http://okina.univ-angers.fr/publications?f\[keyword\]=9574](http://okina.univ-angers.fr/publications?f[keyword]=9574)
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