



Organic solar cells using a multilayer structure MoO₃/Ag/MoO₃ as anode

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Résumé en anglais	<p>MoO₃/Ag/MoO₃ structures have been grown and characterized. It is shown that the transmittance of the films increases when the silver thickness increase from 8 to 10 nm, whereas further increase induces transmittance decrease. The study of the variation of the conductivity vs. Ag thickness shows that the MoO₃/Ag/MoO₃ structures become highly conductive when the Ag thickness reaches 10 nm. Therefore, the optimum structure is obtained when the silver thickness is 10 nm. These MoO₃/Ag/MoO₃ structures have been used as anode in glass/anode/CuPc (35 nm)/C60(40 nm)/Alq₃ (9 nm)/Al (120 nm) organic solar cells. These anodes permit achievable promising results, even if their efficiencies stay slightly smaller than that achieved with ITO based devices.</p>
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Liens

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