



# An Ionic Molecular Glass as Electron Injection Layer for Efficient Polymer Light-Emitting Diode

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Mots-clés	alcohol solubility [12], conjugated polymers [13], electron injection [14], high work function cathodes [15], light-emitting diodes (LEDs) [16], organic glass [17]
Résumé en anglais	<p>An ionic molecular glass based on a dendronized monoammonium salt has been facilely synthesized and utilized as an interfacial electron-injection layer in a light-emitting diode (LED). The characterization of a yellow-green LED that involves an Al cathode and a thin layer of the new compound spin cast from a methanol solution has shown device performances comparable to those obtained with a Ba/Al cathode. Photovoltaic measurements under white light irradiation reveal that a thin layer of the new compound can significantly increase the built-in potential and thus facilitate electron injection from an Al cathode. Furthermore, it is interesting to observe that the new ionic salt could undergo reorganization on the emissive conjugated polymer layer, which leads to the formation of nearly uniform nanoaggregates.</p>
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