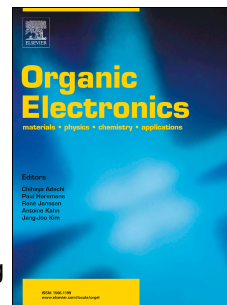


# Accepted Manuscript

Highly efficient ITO-free organic light-emitting diodes employing a roughened ultra-thin silver electrode

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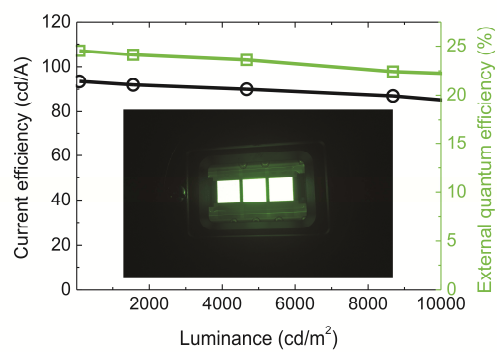
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ITO-free OLED with the roughened ultra-thin silver anode exhibited the current efficiency of 86.3 cd/A and external quantum efficiency of 22.3% at 10 000 cd/m<sup>2</sup>.



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