

Solution-based formation of multilayers of small molecules for organic light emitting diodes

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We developed an approach for fabricating small molecule organic light emitting diodes (OLEDs) by solution-based processing. The approach involves dissolving a small molecule organic in a solvent, spin-coating it on a mold, and then transferring the layer onto the existing organic layer on a substrate. This ability to form multilayers of small molecule organics allows one to take advantage of both the efficiency offered by the multilayer structures and the low cost fabrication made possible by the solution processing.