

Abstract Submitted
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Surface Cross-linking Phenomena of Organic Films Treated by Argon Plasma KONGDUO HE, QIONGRONG OU, Fudan University — Solution processed multilayer polymer light-emitting diodes (PLEDs) present challenges, especially regarding dissolution of the first layer during deposition of a second layer. We found a plasma approach to form cross-linked surfaces on organic films, which resist the corrosion of organic solvent, confirmed by the profilometer and fluorescence images. The cross-linking phenomenon is much related to the intrinsic chemical structure of the material. Plasma cross-linking technology may open up a new pathway towards fabrication of all-solution processed multilayer PLEDs.

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