

Abstract Submitted
for the GEC15 Meeting of
The American Physical Society

Interface modification and material synthesis of organic light-emitting diodes using plasma technology RONGQING LIANG, QIONGRONG OU, CHENG YANG, KONGDUO HE, XILU YANG, SHAOFENG ZHONG, Fudan University, PLASMA APPLICATION TEAM — Organic light-emitting diodes (OLEDs), due to their unique properties of solution processability, compatibility with flexible substrates and with large-scale printing technology, attract huge interest in the field of lighting. The integration of plasma technology into OLEDs provides a new route to improve their performance. Here we demonstrate the modification of indium-tin-oxide (ITO) work function by plasma treatment, synthesis of thermally activated delayed fluorescence (TADF) materials using plasma grafting (polymerization), and multi-layer solution processing achieved by plasma cross-linking.

Rongqing Liang
Fudan University

Date submitted: 18 Jun 2015

Electronic form version 1.4