

Supporting Information

Efficient tandem polymer light-emitting diodes used PTPA-P/ZnO as charge generation layer

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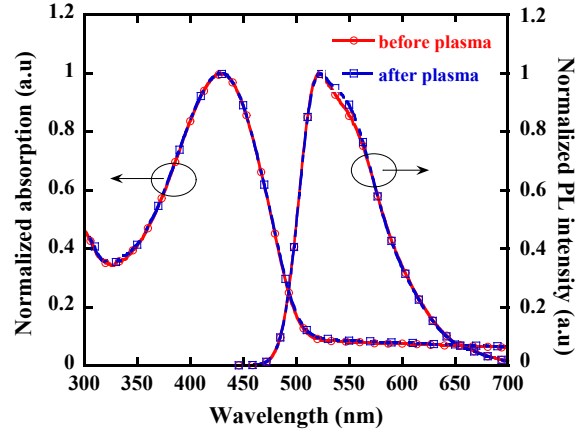


Fig.S1 UV-vis absorption and PL spectra of P-PPV in film before and after oxygen plasma treatment.

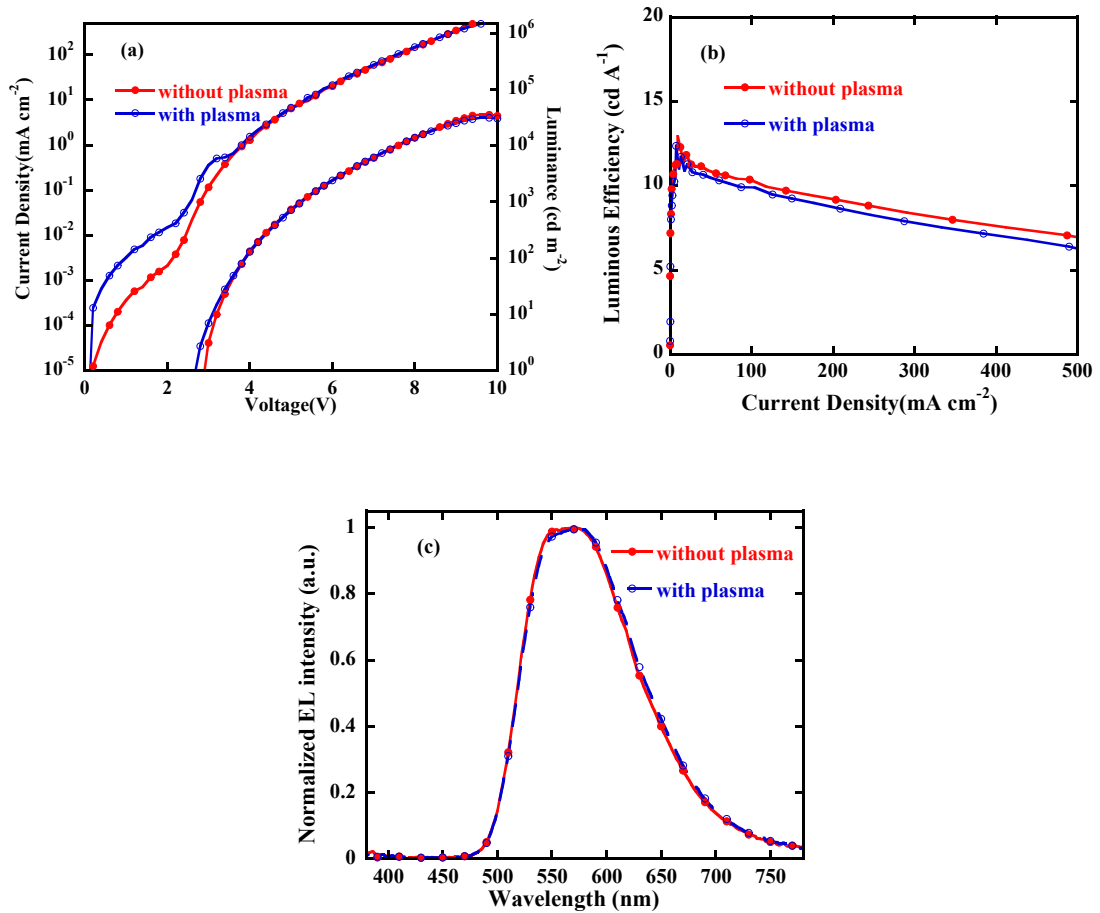


Fig. S2 J-V-L(a), LE-J(b) and EL spectra of the P-PPV layer with/ without oxygen plasma treatment. Device structure: ITO/ZnO/PEIE/P-PPV/MoO₃/Al.

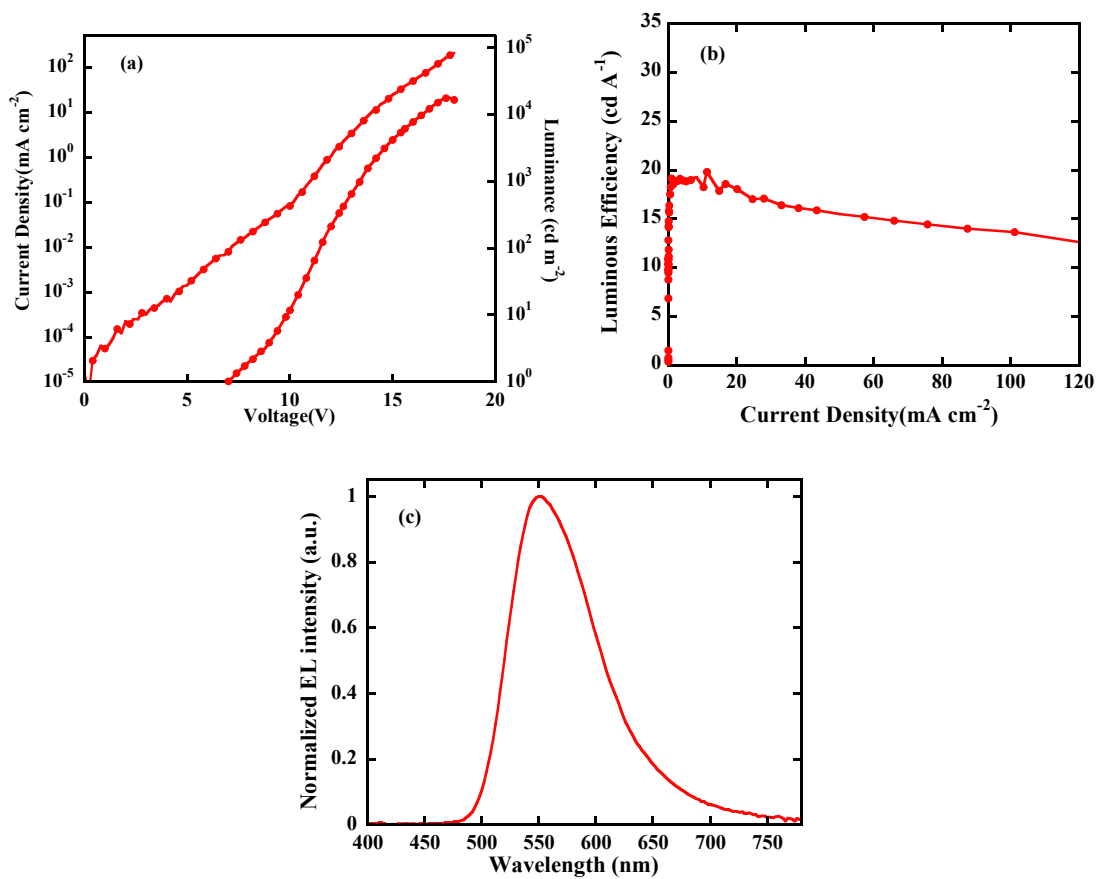


Fig. S3 J-V-L(a), LE-J(b) and EL spectrum(c) of the tandem device used PEIE as the electron injecting layer. Device structure: ITO/ZnO/PEIE/P-PPV/PEDOT:PSS/ZnO/PEIE/P-PPV/MoO₃/Al.