

**Supplementary Information for Light extraction enhancement in
organic light-emitting diodes based on localized surface plasmon and
light scattering double-effect**

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In order to clarify the influence of Pt₃Co ANPs on the variation of electric efficiency of the OLEDs, we also plotted the power efficiency of the device A, B and C shown in Fig S1. It is clear that the device B also behaves the highest power efficiency, then is the device A, and the device C shows the lowest value, implying that the Pt₃Co ANPs can indeed improve the electric efficiency of the OLEDs, which includes high current efficiency and low operating voltage.

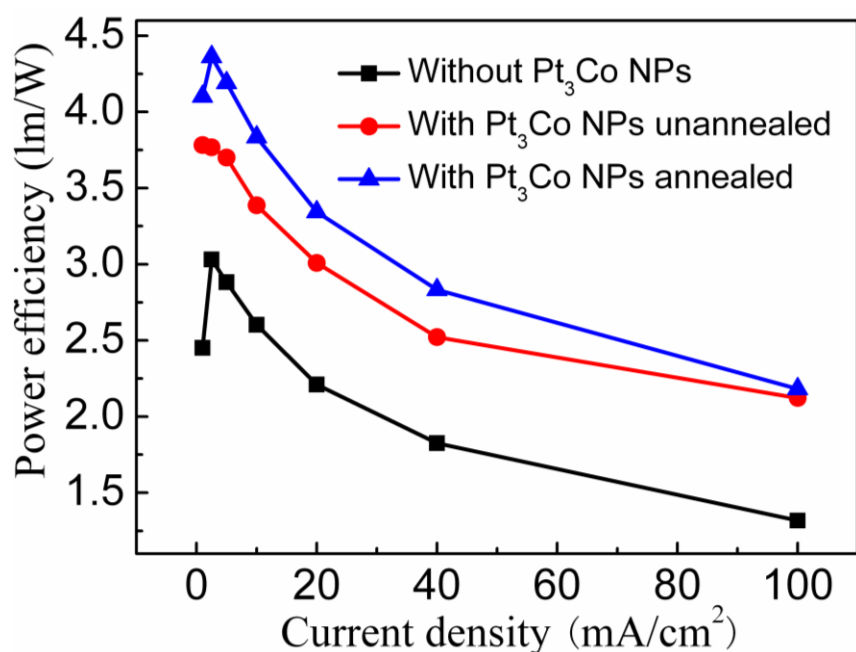


Fig S1. Power efficiency-current density characteristics of Alq₃ based OLEDs with unannealed Pt₃Co ANPs (device A) and annealed (device B) and without Pt₃Co ANPs (device C).