

Supporting Information

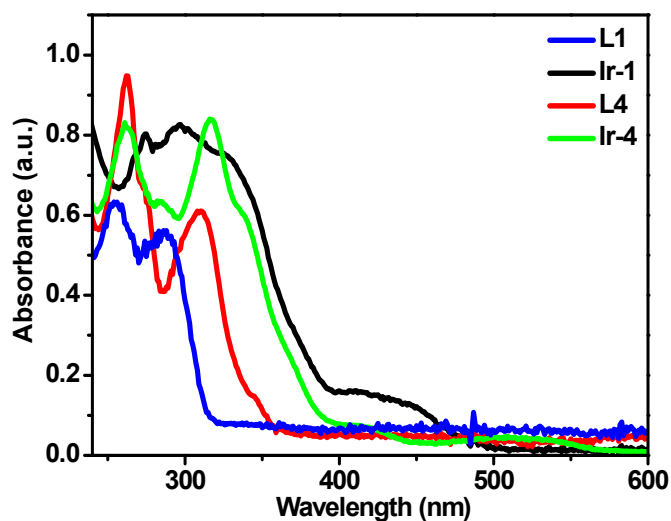


Figure S1. Uv-vis absorption spectra of complexes **Ir-1** and **Ir-4** and the corresponding ligands **L1** and **L4**.

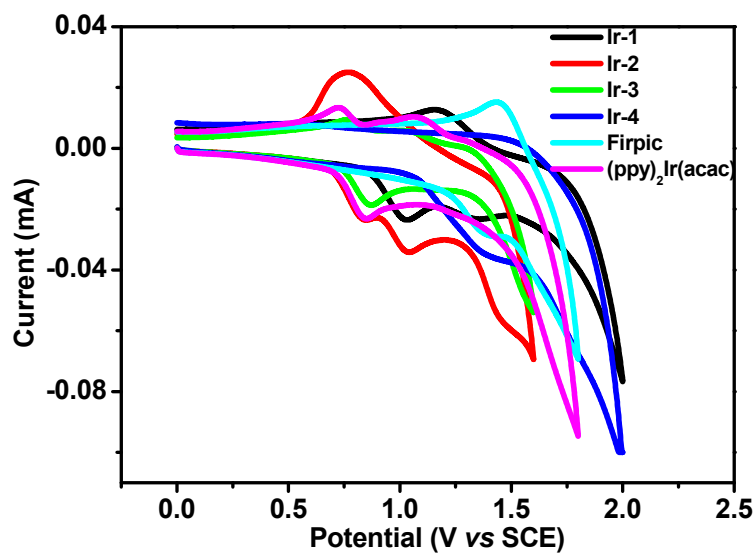


Figure S2. The cyclic voltammograms of complexes **Ir-1** – **Ir-4** and the reference complexes **Firpic** and **(ppy)₂Ir(acac)**.

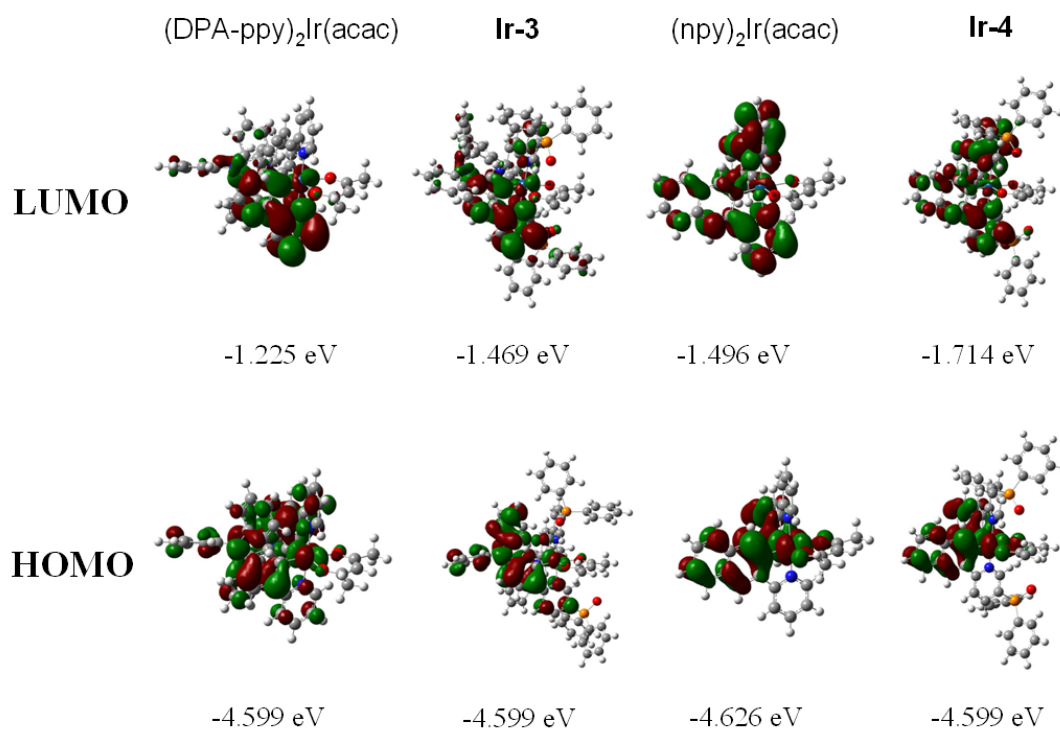


Figure S3. Contour plots of frontier orbitals of **Ir-3** and **Ir-4** and their parent complexes in ground state.

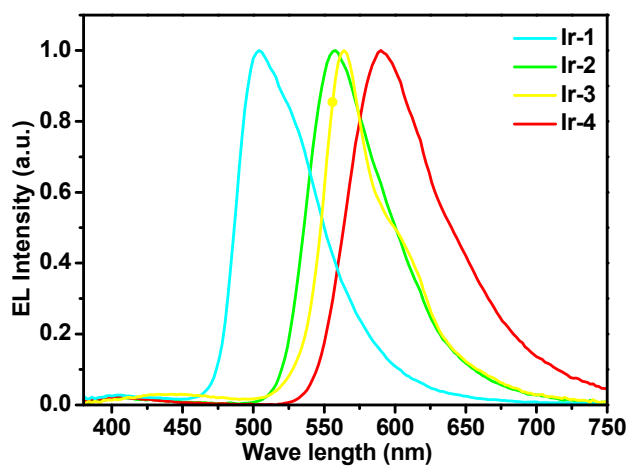


Figure S4. EL spectra of the new iridium complexes in their OLEDs.

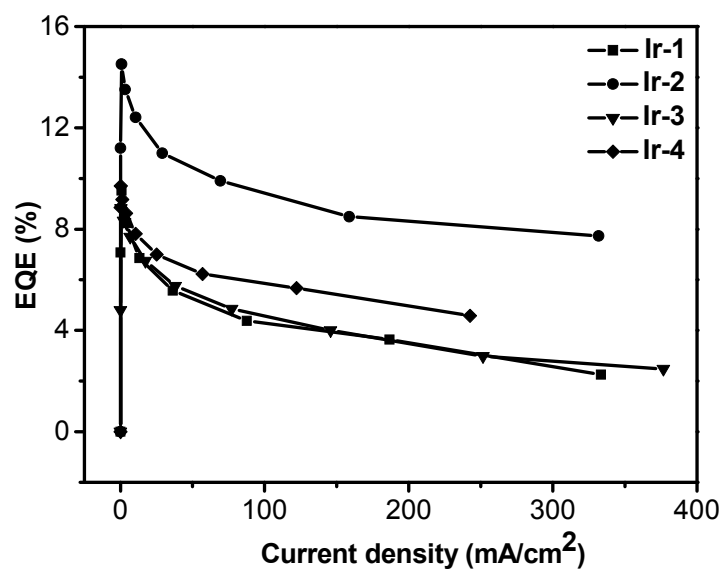


Figure S5. Plots of the external quantum efficiency versus current density for complexes **Ir-1** – **Ir-4** based monochromatic OLEDs.

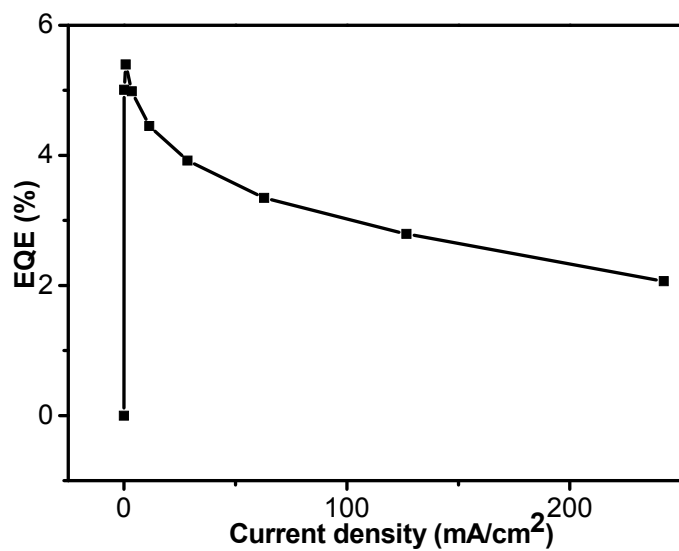


Figure S6. Plot of the external quantum efficiency versus current density for the optimized white OLED (8% FIrpic, 3% **Ir-4**).