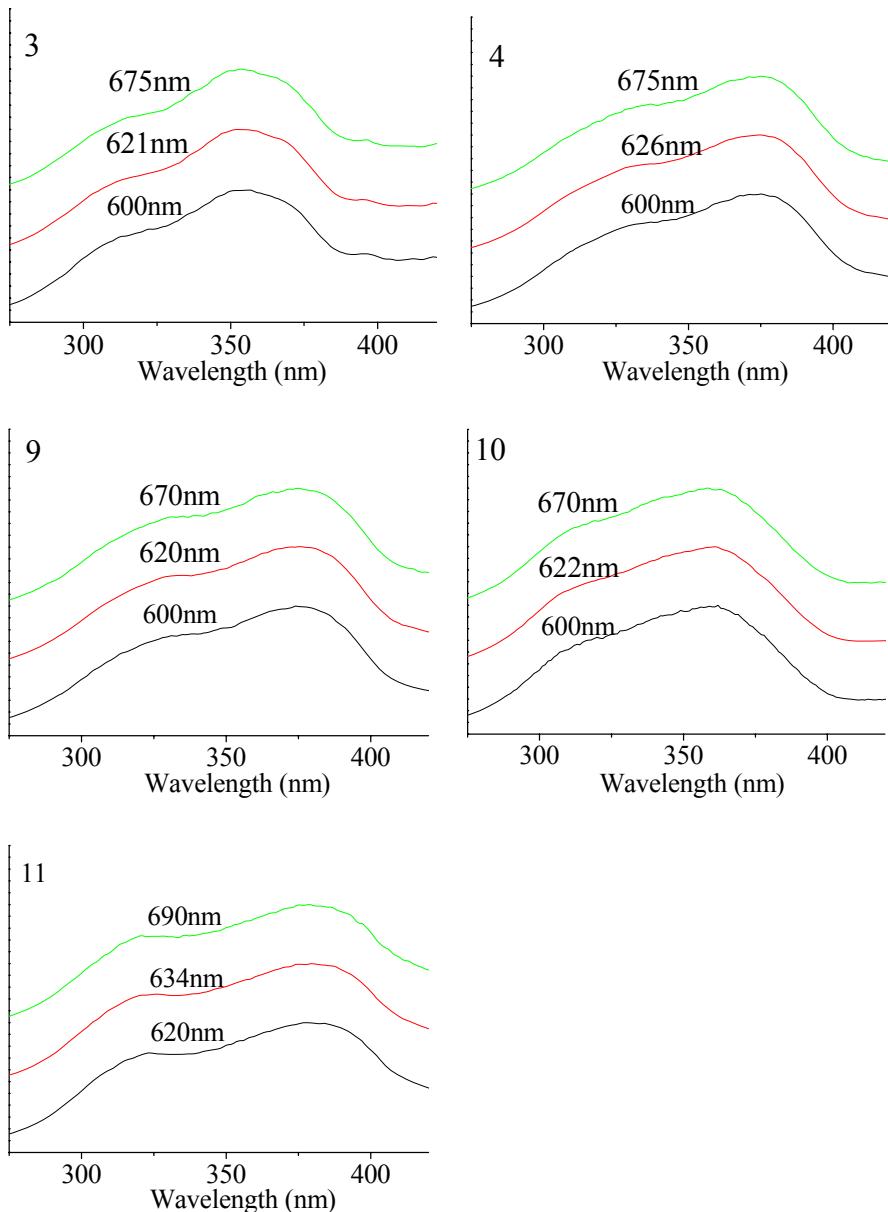


## Supporting Information

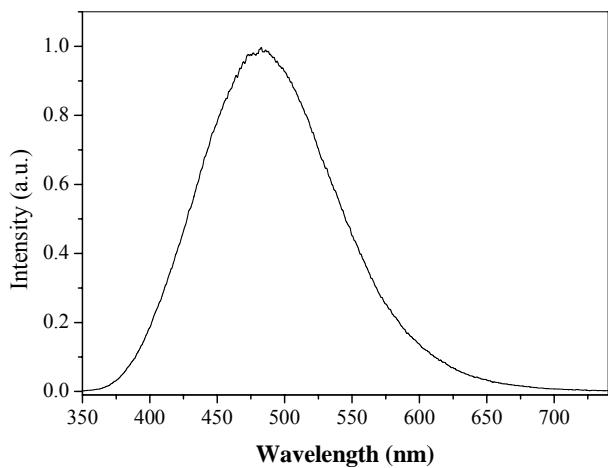
Synthesis, Photophysical, Electrochemical and Electrophosphorescent Properties of A Series of Iridium(III) Complexes based on Quinoline Derivatives and Different  $\beta$ -diketonate ligands

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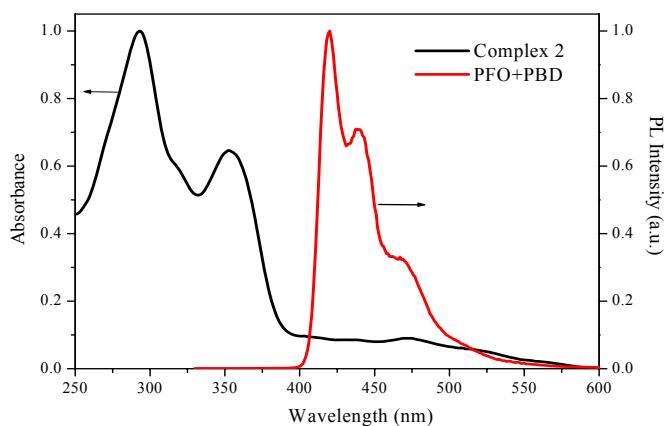
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**Figure S1.** The excitation spectra of 3, 4, 9, 10 and 11 monitoring the emission at various energies.



**Figure S2.** Phosphorescence spectrum of  $\text{Gd}(\text{acac})_3(\text{H}_2\text{O})_2$  at 77K.



**Figure S3.** UV-vis absorption spectrum of solid **2** and photoluminescent spectrum of PFO+PBD film.

**Table S1. Emission lifetime of 2/PFO-PBD (30wt.-%) Films with Different Doping Concentrations of 2**

Doping Concentration (wt%)	$\tau$ /ns (445 nm)
0.5	0.87
1	0.81
2	0.66
4	0.56
8	0.53