

Electronic supplementary information

for

Platinum(II) acetylide complexes with star- and V-shaped configurations possessing good trade-off between optical transparency and optical power limiting performance†

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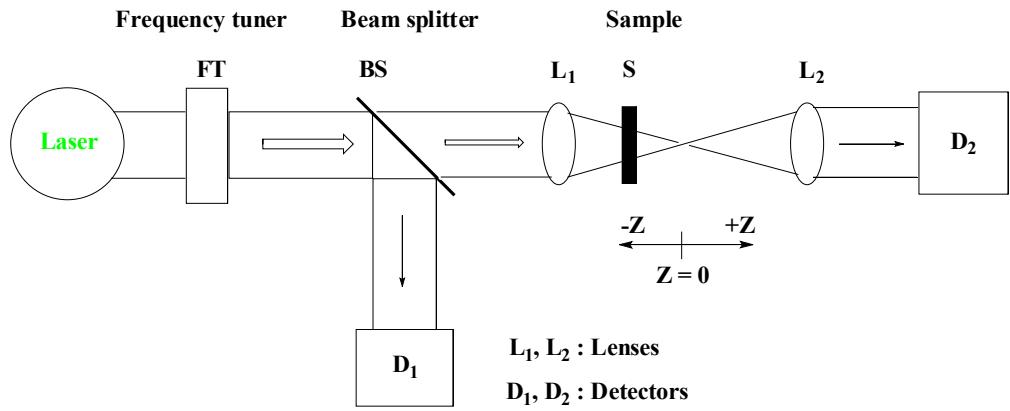
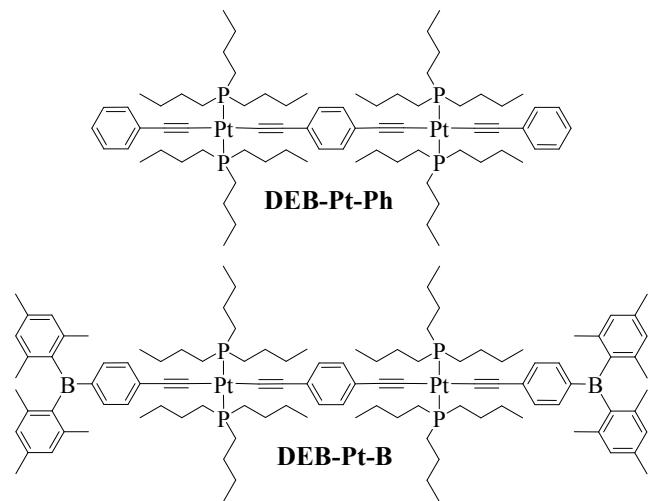
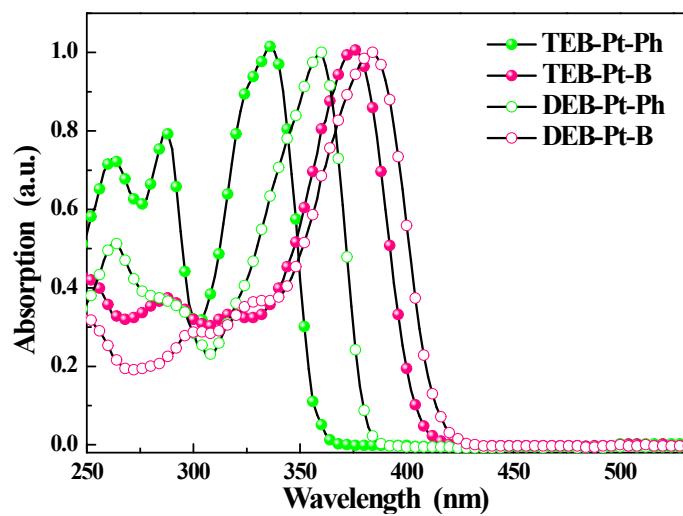


Fig. S1 Optical path for the Z -scan measurement.



(a)



(b)

Fig. S2 (a) Chemical structures of **DEB-Pt-Ph** and **DEB-Pt-B**. (b) UV-vis absorption spectra for **TEB-Pt-Ph**, **TEB-Pt-B**, **DEB-Pt-Ph** and **DEB-Pt-B** in CH_2Cl_2 at 298 K.

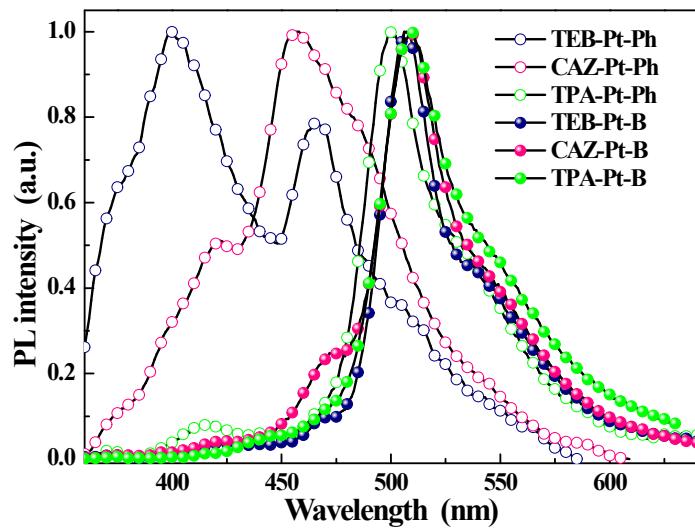


Fig. S3 PL spectra for the Pt(II) acetylides in the 5-wt% doped PMMA film at 298 K.

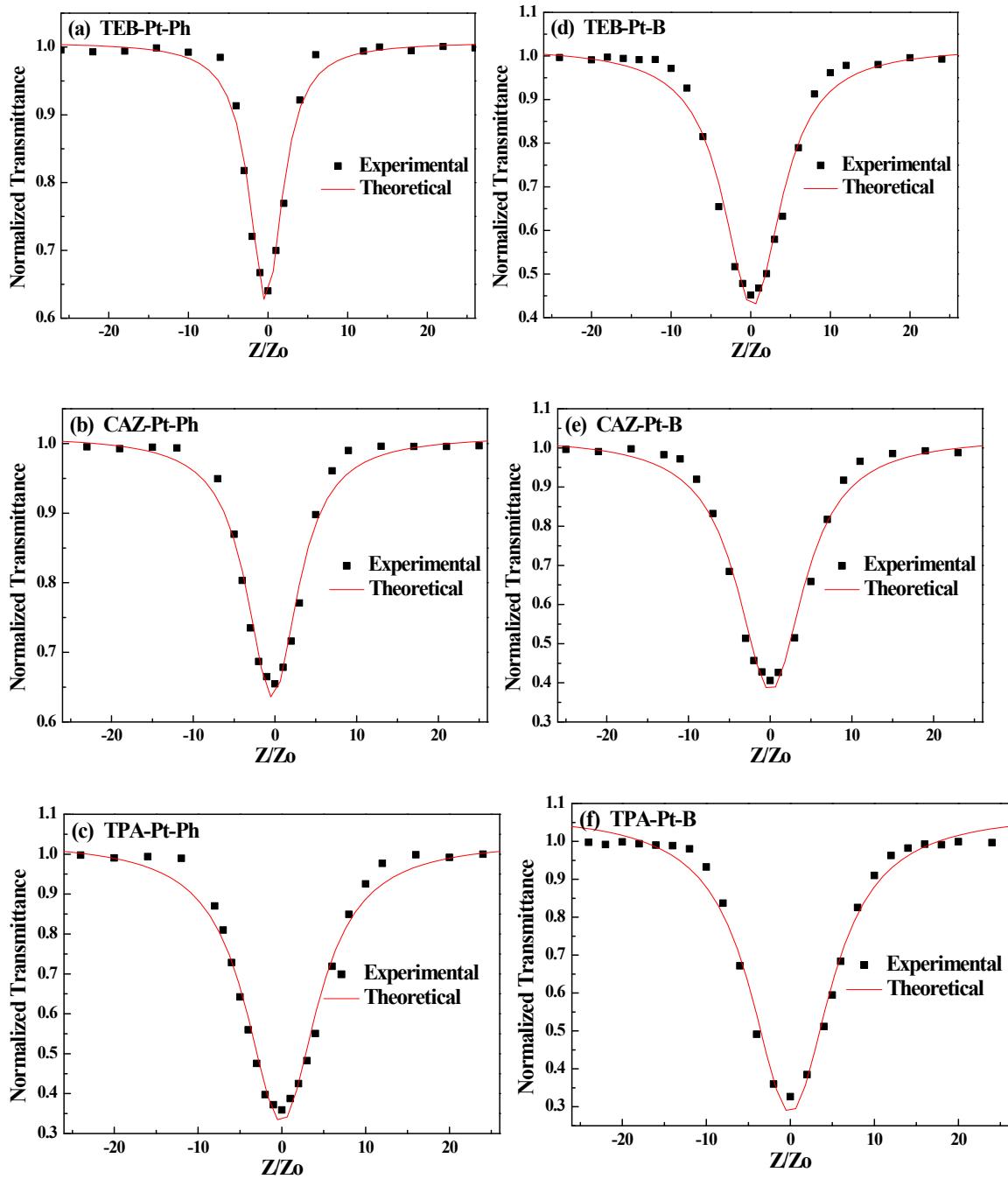


Fig. S4 Z-scan data and their theoretical fitting results for the Pt(II) acetylides.

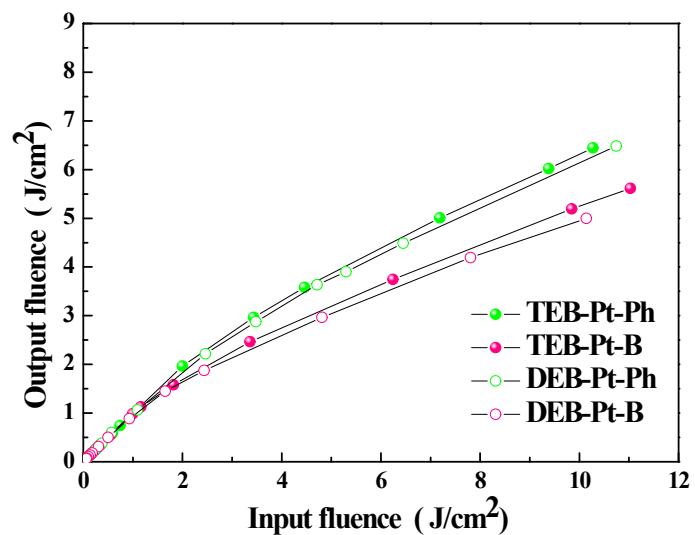


Fig. S5 Comparison of the OPL properties among **TEB-Pt-Ph**, **TEB-Pt-B**, **DEB-Pt-Ph** and **DEB-Pt-B** at the same linear transmittance (T_0 at ca. 90%).