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Poster Presentation

## [OLEDp1]OLED poster

Thu. Nov 28, 2019 10:40 AM - 1:10 PM Main Hall (1F)

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10:40 AM - 1:10 PM

### [OLEDp1-12L]Efficient blue phosphorescent organic light-emitting diode with long triplet lifetime TADF host

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Keywords: organic light-emitting diode, long triplet lifetime, thermal activated delay fluorescent

*A new wide bandgap material, CbzBzCN, was successfully synthesized to be the host of an efficient blue phosphorescent light emitting diode (OLED), which also particularly performs a very long lifetime of triplet excitons reach approximate 2 msec. The OLED showed the maximum current efficiency and external quantum efficiency of 46.3 cd/A and 18.7%, respectively.*