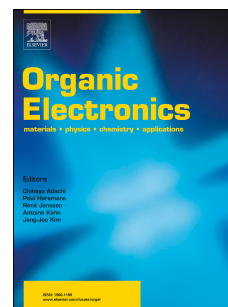


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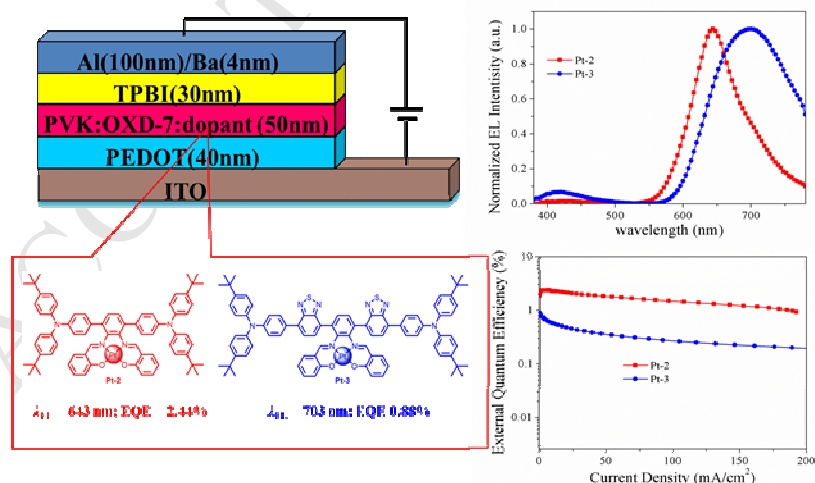
Tetradentate Pt(II) 3,6-substituted salophen complexes: synthesis and tuning emission from deep-red to near infrared by appending donor-acceptor framework

Youming Zhang,^{a,b,§} Zheng Yin,^{a,b,§} Fanyuan Meng,^{b,c} Junting Yu,^d Caifa You,^{a,b}

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Graphic Abstract

Two novel tetradentate platinum (II) complexes of Pt-2 and Pt-3 with 3,6-substituted salophen were synthesized and characterized. Their emission was efficiently tuned from deep red to near infrared by appending D-A framework of di(tert-butyl) triphenylamine (Bu^tTPA) and benzothiadiazole (BT) into platinum (II) complexes under photo-excitation. A significant near infrared electroluminescence peaked at 703 nm with the maximum external quantum efficiency of 0.88% was obtained in the Pt-3 doped polymer light-emitting devices.



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