



材料科學與工程學系

Department of Materials Science and Engineering

演講公告

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◎服務單位：國立交通大學光電工程學系

◎講題：具光耦出效果之OLED基板/薄膜開發與應用

Development and applications of out-coupling substrates/films for organic light-emitting diodes

◎時間：109年12月14日（星期一）15:10-17:00

◎地點：理工二館第一講堂

Abstract

Organic light-emitting devices (OLEDs) benefiting by their advantages of high color purity, wide viewing angle, quick response time, compact volume, and flexibility are considered as the most promising candidate for the next-generation display technology. Recently, the commercialization of OLEDs from 4-inch mobile display to 65-inch TV screen undoubtedly shows the great achievement of OLED researchers on realistic applications. The success and experience of OLEDs in display industry also inspires the development of OLEDs for lightings. In this talk, a simple-structured WOLED will be demonstrated by comprising a blue OLED and a fluorescent substrate with out-coupling capability. The CCT of the WOLED is 3900 K and the color rendering index (CRI) of the WOLED is up to 86. The proposed WOLEDs have great advantages of easy fabrication and low dopant consumption. In the last part of the talk, we'll also introduce the application of the out-coupling fluorescent substrates in visible light communication.

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