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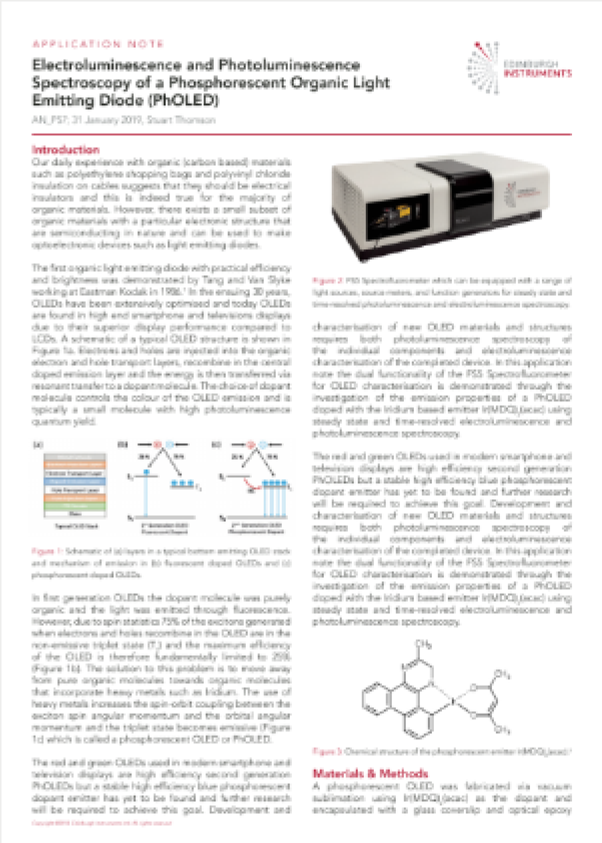
APPLICATION NOTE

Electroluminescence and Photoluminescence Spectroscopy of a Phosphorescent Organic Light Emitting Diode (PhOLED)

AN_P57; 31 January 2019, Stuart Thomson

Introduction

Our daily experience with organic (carbon based) materials such as polyethylene shopping bags and polyvinyl chloride insulation on cables suggests that they should be electrical insulators and this is indeed true for the majority of organic materials. However, there exists a small subset of organic materials with a particular electronic structure that are semiconducting in nature and can be used to make optoelectronic devices such as light emitting diodes.

Electroluminescence and Photoluminescence Spectroscopy of a Phosphorescent Organic Light Emitting Diode (PhOLED)

Investigation of emission properties of a PhOLED. The spectrum and chromaticity coordinates of the emission and the triplet lifetime are determined using time-resolved spectroscopy.

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