URN etd-0407109-183724-2013
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Statistics This thesis had been viewed 47 times. Download 0 times.
Department
Year 2007
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title The field emission device of green yellow and white phosphors
Date of Defense 0000-00-00
Page Count 83

Keyword
No Any Keyword Information.

Abstract
In this research, we studied field emission display. Phosphors and carbon nano-tubes (CNTs) are screen-printed onto ITO glass for preparation of anode and cathode plate. We investigated the field emission performance of different cathode-plates using a diode structure. Current density of cathode plate increases with increasing CNTs content. Three types of phosphors which emit green, yellow and white light, respectively, are used in this study. The luminous performance is explored. Additionally, we investigated several parameters might influence the luminous performance including heating temperature of anode plate and the thickness of phosphors.
Advisory Committee Chih-Cheng Kao - advisor

Files No Any Full Text File.
Date of Submission 2008-08-08