"A novel approach for significant photoluminescence enhancement of light-emitting polymer film".

by Miss Xia Yijie

Date:  15th February 2008 (Friday)
Time:  12:00pm to 1:00pm
Venue:  Block EA-02-11 (Seminar Room)

Abstract

Polymer light-emitting diodes (PLEDs) have attracted a great deal of attention due to the low fabrication cost, high mechanical flexibility, and strong application as the next-generation display technology. Electroluminescence of the polymer light-emitting diodes is one of the most important performance parameters, and it is related to the photoluminescence of the light-emitting polymer. I will present our study on the optical properties of light-emitting polymer films. We observed that optical properties and the structure of the polymer film are sensitive to the additive into the polymer solution. Strong enhancement in the photoluminescence by a factor of about 20 was observed. The mechanism for this additive effect will be discussed as well.

Miss Xia Yijie received her bachelor and master degrees from the Fudan University, bachelor degree at the Department of Materials Science in 2003, and master degree at the Institute of Advanced Materials Department in 2006. Now she is a PhD student at the Department of Materials Science and Engineering, NUS. Her research has been focused on high-performance polymer electronic materials and devices under the guidance of Dr. Ouyang Jianyong.

Dr Xue Jun Min Host