

Simple Synthesis of New Blue Emitting Polymer Based on Anthracene for PLEDs

장지윤, 박종욱[†]

경희대학교

(jongpark@khu.ac.kr[†])

Polymer light-emitting diodes (PLEDs) have attracted much attention from academia and industry field because of their various applications such as large area flat-panel displays and lighting.

In particular, interest in PLEDs fabricated from conjugated polymers has augmented because such PLEDs have properties that are well-suited to flexible lightings: good processability, low operating voltages, and facile color tunability over the full visible range. On the other hand, a number of issues, such as low electroluminescent (EL) efficiencies and luminescent stability, which need to be resolved, currently spoil their commercial applications, although many light-emitting polymers have been synthesized and investigated, and the performance of PLEDs has been improving in recent years.

Therefore, investigation for new conjugated polymers with higher luminescent performance remains one of the major challenges in the area.