

Rapid dye adsorption for the dye-sensitized solar cells

김보은^{1,2}, 이진아^{1,3}, 박세웅¹, 김 옹³, 김경곤¹, 이도권¹,
한성환², 고민재^{1,*}

¹한국과학기술연구원 태양전지센터; ²한양대학교 화학과;

³고려대학교 신소재공학과

(mjko@kist.re.kr*)

Dye-sensitized solar cells (DSSCs) have been attracted much attention as a next generation solar cell. The power conversion efficiency is approximately more than 11 %. In addition to the efficiency, the development of high throughput process is also very important for commercialization. Considering the whole fabrication process, the process optimization of dye adsorption is urgently necessary to improve productivity. In this work, we will report the factors to affect the amount of dye adsorption and report the optimized condition for the adsorption process.

This research was supported by the New & Renewable Energy of the Korea Institute of Energy Technology Evaluation and Planning (KETEP) grant (No.: T2010100100654) funded by the Korea government Ministry of Knowledge Economy.