CBD법으로 성장된 CdS 박막의 급속 열처리 효과

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Effect of Rapid thermal treated CdS Films prepared by CBD

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Abstract : CdS is II-VI semiconductor with a wide band gap of approximately 2.42 eV. CdS is the most popularly employed heterojunction partner to p-CdTe due to its similar chemical properties. The as-deposited films are annealed in Rapid Thermal Annealing (RTA) system in various atmosphere(Air, Vacuum and N_2) at 500 °C. In this work, X-ray diffraction (XRD), atomic force microscopy (AFM), scanning electron microscopy (SEM) and energy dispersive spectroscopy (EDS) of chemical bath deposited (CBD) CdS films on glass is carried out. In case of the annealed CdS films in N_2, grain size was larger than as-annealed films.

Key Words : CdS, RTA, PC, PET, CBD