

## 비정질 As<sub>2</sub>Se<sub>3</sub> 박막의 Ag 의존적 홀로그래픽 격자 형성 특성 분석

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We have investigated the holographic grating formation on Ag-doped amorphous chalcogenide As<sub>2</sub>Se<sub>3</sub> thin films with Ag layer. The basic optical parameter which is a refractive index and extinction coefficient was taken by n&k analyzer. The source of laser was selected based on these parameter.

Holographic gratings have been formed using He-Ne laser (wavelength: 632.8 nm) Diode Pumped Solid State laser (DPSS, wavelength: 532.0 nm) under [P:P] polarized the intensity polarization holography. The diffraction efficiency was obtained by +1st order intensity.

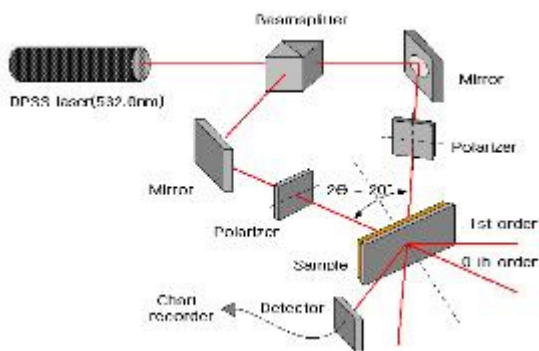


그림 1.

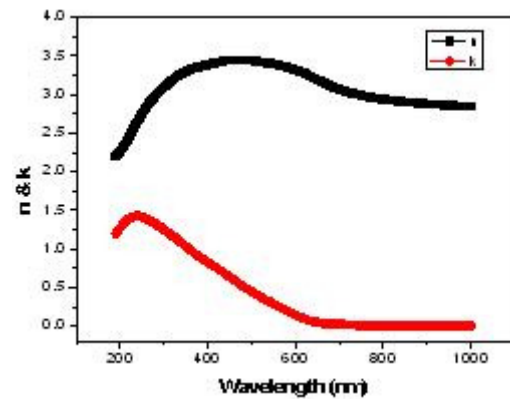


그림 2.

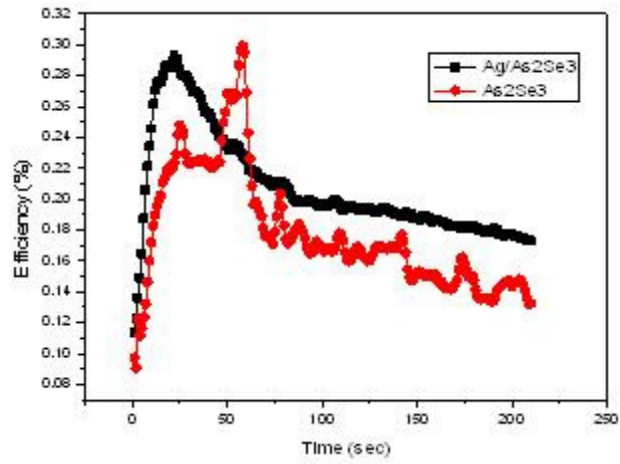


그림 3.

**Keywords:** amorphous chalcogenide, diffraction gratings, holographic lattices