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Title:	Non-linear properties for Membranes of Rhodamine tincture by using Z-Scan Technique
Author Name:	Rajaa Nader, Ali H. Al-Hamdani, Slafa I. Ibrahim, Ruqayah Abd Ulwali Abd Ullah
Abstract:	ABSTRACT This research study the spectral properties for Rhodamine (R6G) dissolved in chloroform and blended with epoxy resin with a (3*10-5 mol /L) concentration at different thickness (4.6,22.6,23.3,29.6,32.3 mm). The membrane was prepared by spin coating method. The Z- scan technique was used to the study of nonlinear absorption coefficient(β) and nonlinear refractive coefficient (n2) using a (100 mW) Neodymium- doped Yttrium Garnet(Nd: YAG) continuous laser (CW) with second harmonic generate at wavelength (532 mW). In general the results showed that the non-linear properties appears clear when the thickness of the sample decreased. Key word:- Z-Scan , Rhodamine (6G), Non-linear optical properties
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