




# Determination of Linear, Nonlinear, and the Optical Limiting Properties of Sudan Brown RR in a Solid Film and Solution

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## Abstract

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The casting technique is employed to prepare the film from a mixture of sudan brown RR (SBRR) dye and poly methyl methacrylate (PMMA). The surface profile of this film is identified using a scanning probe microscope and image J software. The linear optical (LO) properties of the solid film were studied. The nonlinear optical (NLO) properties of