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- Document Title** : *SYNTHESIS AND SPECTROSCOPIC STUDIES OF SOME NEW STYRYL DYES*
تحضير ودراسات طيفية على بعض أصباغ الستايرايلى الجديدة
- Document Language** : Arabic
- Abstract** : This thesis aims to study synthesis of new styryl dyes, and to study their spectral properties. Four new styryl dyes type were prepared and characterized by spectral methods including ¹HNMR, FT-I-IR, UV-Visible and fluorescence spectroscopy. The fluorescence of these dyes in ethanol were measured. Most of the investigated thirty two dyes in this thesis showed absorption in the visible region with wavelength spreading over wide spectrum of colour ranging from yellow to purple, and all dyes showed strong to moderate fluorescence except dye [2.27]. The solvatochromism of these dyes were studied in two solvent with different polarity namely chloroform and acetonitrile . The photo stability of thin film of PMMA when exposure to the sun-light was assessed . Thermal stability of the synthesized styryl dyes was assessed as thin film of PMMA and the rate was monitored as well as the extent of degradation upon heating at 80 0 C and 65 0 C was calculated .
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