OPTICAL PROPERTIES OF ANTHOCYANIN EXTRACTED FROM FLOWERS

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Abstract:

Extract of the dye contained in the flower known locally as the morning rose, which has the scientific name (Portulaca grandiflora), was used in this study. UV-VIS spectroscopy, which is represented by optical qualities such as absorbance (A), which was within the boundaries of the visible spectrum at wavelengths (490-740nm), and optical constants such as absorption coefficient (α), is effective due to the bonding that create the dye. Which has a value more than 10^4, and the electrical transmission is direct, as well as the refractive index (n) equal (1.6), Decay coefficient (k) between (0.001-0.005), and optical energy gap Eg, which is equivalent to 3.5eV.

Key words: Portulaca Grandiflora, Optical Properties, Absorption Coefficient.

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