Some recently synthesized benzanthrone derivatives bearing azomethine and oxy groups at C-3 position have been systematically studied. The influence of the substituents and of the environment (isotropic and anisotropic media) on the absorption and fluorescence of the dyes and their vibronic transitions is discussed in this paper.

Key words: 3-Benzanthrone Derivatives; Azomethine and Oxysubstitutes; Absorption; Fluorescence; Vibronic Structure.