



Photodegradation Study of Evan's blue in Presence of Strontium Chromate

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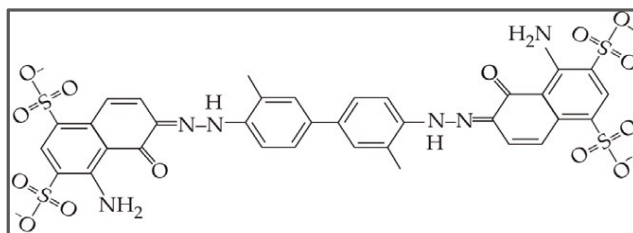
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ABSTRACT

The photocatalytic degradation of Evans blue has been studied under visible light in the presence of SrCrO_4 as a photocatalyst. Strontium chromate was synthesized by precipitation method in a wet chemical process. The photocatalytic activity of strontium chromate was compared by investigating the photodegradation of Evans blue dye under visible light. The effect of various parameters such as pH, the concentration of dye, amount of semiconductor and light intensity on the rate of degradation was also studied. It was observed that strontium chromate has the highest catalytic activity in basic medium. A tentative mechanism for the reaction has been proposed.

Graphical Abstract



Structure of Evan's blue.

Keywords: Evans Blue dye, Photocatalytic degradation, Strontium Chromate.