



## Composite of Titanium Dioxide and Nickel Vanadate Application and Its Effect on Photocatalytic Degradation of Eosin yellow Dye

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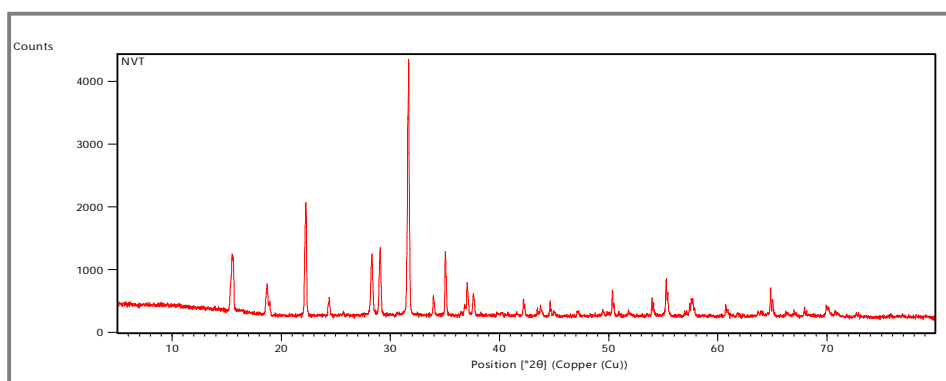
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### ABSTRACT

Various photo catalysts have been used to separate various dyes from their aqueous solutions. As a photo catalyst for dye degradation, titanium oxide and nickel vanadate were combined. Numerous variables, such as the dye solution's pH, dye concentration, semiconductor amount, and light intensity, were studied for their impacts. The hydroxyl radical has been identified as an active oxidising species, which is a putative mechanism for the photocatalytic degradation of dye that has been the subject of significant study.

### Graphical Abstract:



XRD of Nickle vanadate and Titanium Dioxide

**Keywords:** Nickel vanadate, Degradation, Eosin yellow. Photocatalysis.