



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Chemical Science International Journal
Manuscript Number:	Ms_CSIJ_35086
Title of the Manuscript:	Preparation, Microstructure and Performance of Activated FA / TiO ₂ -WO ₃ Composite Photocatalyst
Type of Article:	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
The authors have submitted incomplete response to the reviewers comments	This article focused on how to prepare loading FA/TiO ₂ -WO ₃ composite photocatalyst, the performance was investigated under UV light. In this process, the TiO ₂ is the most important role in photocatalytic process. The reason may be attributed to the doping WO ₃ presence in composite photocatalysts. The TiO ₂ and WO ₃ simultaneously occur interband transitions under the UV irradiation. The photoinduced electron transfer from the surface to the lower energy level WO ₃ due to different energy levels, the WO ₃ induced hole was migrated to the higher TiO ₂ valence band, this process suppressed the electron-hole pair recombination. In addition, dark reaction have been considered in revised paper, for investigating carrier effect of FA, firstly, the decolorization performance of activation and modify FA was tested under dark condition. The results show decolorization ratio is about 40%. This result confirmed that the FA carrier posses preferably adsorption performance.