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Drinking Water
Engineering and Science
Discussions

# *Interactive comment on* "Photocatalytic degradation of Dyes in Water by Analytical Reagent Grade Photocatalysts – A comparative study" *by* Dnyaneshwar R. Shinde et al.

**Anonymous Referee #2**

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This study comparatively investigated the photocatalytic degradation of dyes by ZnO, TiO2 and SnO2 photocatalysts. The characteristics of such catalysts were also examined by XRD, SEM, etc. Overall, the study presents some new and interesting results, however, its significance and contribution in this research topic appear to be limited in terms of imcomplete experimental design and poor English. With these reasons, the publication of this work at the present form is not recommended in Drinking Water Engineering and Science (DWES). Significant revision and additional experimental works are necessary for further consideration of this work. 1. General: Please have a professional technical English editorial office to proof read the manuscript and unify units (e.g. ppm and mg/L). 2. The solar intensity variation with time and solar wavelength



spectra should be given. 3. Why the authors chose flat slurry reactor (FSR) instead of closed container, which was used in most of literatures? Was the water temperature in FSR maintained? 4. Page 4, Lines 5∼6: Was the solution pH maintained at 9? If not, the variation of pH value should be monitored. 5. Page 8, Line 15: The conclusion was hasty because the authors just investigated the photocatalytic activity at only one condition. Factors such as initial dye concentration, catalyst loading, irradiation time, pH and intensity of light should be considered. 6. TOC analysis was suggested to help study the photodegradation performance. 7. Please explain the significant difference of rate constants for three different dyes in Table 2. 8. Page 10, Lines 13∼14: "Table 1" should be corrected to "Table 2".

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