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Title: Refinery Wastewater degradation with Titanium Dioxide, Zinc Oxide, and Hydrogen Peroxide in a Photocatalytic Reactor

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Highlights for PSEP Manuscript

- Titanium dioxide, zinc oxide, and $\text{TiO}_2/\text{H}_2\text{O}_2$ are effective catalysts.
- The maximum degradation achieved was 40.68% by using TiO_2 at 35 °C within 120 minutes.
- The lower pH helps the photocatalytic reactivity of the catalyst.
- When TiO_2 was combined with H_2O_2 the maximum degradation was about 25.35% at pH 4.2.
- The results indicate that TiO_2 is comparatively more effective than ZnO and H_2O_2 .

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