

## Treatment of Tannery Effluent by Electrooxidation Process using Sodium Persulfate as Catalyst

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**Abstract.** The treatment of tannery effluent by electrochemical techniques involving electrooxidation was studied varying different parameters such as current density (0.08 to 0.18 A.cm<sup>-2</sup>), reaction time (1 to 4 h) and catalyst concentration (0 to 1 g.L<sup>-1</sup>). The results show that 90% of COD removal was obtained with a current density of 0.18 A.cm<sup>-2</sup> after 2h of treatment; whereas about 50% of COD removal was achieved in the presence of sodium persulfate (1g.L<sup>-1</sup>) with a current density of 0.18 A.cm<sup>-2</sup> during 1 h of treatment.

**Keywords:** electrooxidation, sodium persulfate, COD