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UV-Fenton体系预处理四氢呋喃废水实验研究

Study on pre-treatment of tetrahydrofuran wastewater by UV-Fenton system

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英文关键词:UV-Fenton system tetrahydrofuran wastewater pre-treatment biodegradability

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中文摘要:

采用UV-Fenton体系预处理四氢呋喃废水,实验结果表明,pH值、反应时间、 Fe^{2+} 和 H_2O_2 投加量等因素对处理效果有较大的影响。实验确定的最佳反应条件为:原水pH=5, Fe^{2+} 投加量 2.5 mmol/L, H_2O_2 投加量12 mmol/L,反应时间90 min,连续曝气,在此条件下,COD去除率可达85%左右。经UV-Fenton体系处理后,废水的B/C值由0.16增至0.47,可生化性提高,可满足后续生化处理的要求。

英文摘要:

UV/Fenton process was used as a pretreatment method to treat tetrahydrofuran wastewater. Experimental results showed that the influencing factors for the reaction mainly included pH, reaction time, the dosage of Fe^{2+} and H_2O_2 . Under the conditions of continuous aeration, the optimum reaction conditions of pH, dosage of Fe^{2+} , dosage of H_2O_2 , reaction time were 5, 2.5 mmol/L, 12 mmol/L and 90 min, respectively. Under the optimum conditions, the removal rate of COD could be up to 85%. After treatment, the B/C value of the wastewater increased from 0.16 to 0.47, and the biodegradability was improved greatly, and the effluent could satisfy the requirements of follow-up biochemical treatment process compeletely.

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