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Photoelectrochemical Degradation of PCP on TiO2 Film Electrode

XU Wen-lin, WANG Ya-qiong

Yangzhou University, Yangzhou, Jiangsu 225002, China

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摘要 An investigation of photoelectrochemical degradation of pentachlorophenol (PCP) on a TiO2 film electrode was presented. The TiO2 film electrode was prepared by anodisation of titanium metal in sulfuric acid solution and its photoelectrocatalystic performance was studied. The destruction of PCP follows approximately the first-order kinetics. The reaction constant decreases slightly from  $2.6 \times 10-5$  s-1 to  $2.0 \times 10-5$  s-1 as the initial PCP concentration is increased from 0.1 mmol/L to 1.0 mmol/L under the experimental condition.

关键词 <u>pentachlorophenol</u> <u>photoelectrochemical degradation</u> <u>TiO2 film electrode</u>

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通讯作者:

作者个人主页: XU Wen-lin; WANG Ya-qiong

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