

# Photocatalytic method for removal of mercury from contaminated water

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## Abstract

Inorganic mercury complexes with citrate ions. In oxidative photodegradation of this complex with  $\text{TiO}_2$ , metallic mercury is found to become deposited on  $\text{TiO}_2$ . The reaction is sufficiently sensitive to sunlight and for practical application  $\text{TiO}_2$  can be confined in a transparent dialysis bag to facilitate the disposal of extracted mercury.

**Keywords:** Citrate complexes; Mercury removal; Photodegradation; Titania; Water

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