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**A continuous electrocoagulation system with pH auto-adjusting by endogenous products to treat Cr(VI)-contaminated soil flushing solution**

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**Abstract**

Soil flushing solution (SFS) from Cr(VI)-contaminated soil flushing remediation is a kind of non-industry-sourcing Cr(VI)-containing wastewater. The requirement of on-site treatment of SFS proposes high level requirements for the operational simplicity and transportability. This paper exhibits an on-site application-oriented continuous electrocoagulation (EC) system for SFS treatment. By a novel design, the products of a series of electrochemical, redox and precipitation reactions were used to create an acidic region for Cr(VI) reduction by  $\text{Fe}^{2+}$  and a basic region for

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