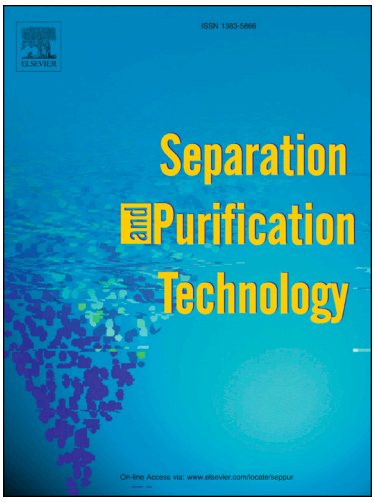

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Siyang Hu, Dong Li, Chuan Huang, Delin Sun, Xingzhong Yuan

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

Siyang Hu[a,b,c], Dong Li[a,b,c,*], Chuan Huang[a,b,c], Delin Sun[a,b,c], Xingzhong Yuan[a,b,c]

[a] State Key Laboratory of Coal Mine Disaster Dynamics and Control, Chongqing University, Chongqing 400044, P. R. China

[b] Key Laboratory of Southwest Resources Exploitation and Environmental Hazards Controlling Engineering of Education Ministry, Chongqing University, Chongqing 400030, P. R. China

[c] School of Resources and Environmental Science, Chongqing University, Chongqing 400044, P. R. China

* Dong Li: lidongbayan@cqu.edu.cn

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 Fe^{2+} and a basic region for