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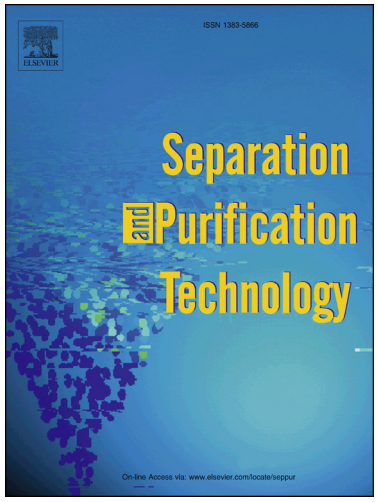

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Mass transport-enhanced electrodeposition for the efficient recovery of copper and selenium from sulfuric acid solution

Junling Su[a,b], Xiao Lin [b], Shili Zheng[b], Rui Ning[c], Wenbo Lou[d], Wei Jin[b,*]

[a] *School of Chemical and Environmental Engineering, China University of Mining and Technology of Beijing, Beijing 100083, China*

[b] *National Engineering Laboratory for Hydrometallurgical Cleaner Production Technology, Key Laboratory of Green Process and Engineering, Institute of Process Engineering, Chinese Academy of Sciences, Beijing 100190, China*

[c] *Daye Nonferrous Metal Co., Ltd., Huangshi, Hubei, 435005, China*

[d] *School of Metallurgy, Northeastern University, Shenyang 110819, People's Republic of China*

**Corresponding author: E-mail: wjin@ipe.ac.cn (Wei Jin), Tel: +86 10 62584427.*

Abstract: Recovery of selenium from copper-based sulfuric acid solution is of significant importance for the supply of this scattered metal. In order to overcome the drawbacks of high energy/reagents consumption and low recovery ratio in conventional processes, a cost-effective electrochemical recovery process of Se and Cu was first developed using low-cost stainless steel cathodes. It has been demonstrated that Se and Cu ions can be simultaneously electrodeposited, and the co-deposition is mass transport controlled quasi-reversible reaction. Consequently, a

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