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Recovery of Copper from Leaching Solution of Copper Smelting Ash

彭翠,朱国才,池汝安,赵玉娜,邹永前

武汉工程大学,湖北省新型反应器绿色化学工艺重点实验室

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摘要 An efficient and reliable approach based on solvent extraction to selectively recover copper from leaching solution of Jinchuan copper smelting ash has been developed in this work. And the extraction isotherm of 50%(j) N902 with initial aqueous acidity of 19.6 g/L was determined at 25%. The results show that the extractant, N902, has good selectivity to copper, and its saturated capacity of copper under the given conditions is over 23 g/L. The recovery rate of copper in the extraction is over 99%. And copper extraction equilibrium is reached in 90 s using 50% N902 with kerosene as the diluenting agent at an organic and aqueous volume phase ratio (O/A) of 1. Furthermore, over 99.5% of the loaded copper in the organic phase could be stripped by applying 196 g/L H2SO4 as the stripping agent.

关键词 recovery,copper,copper smelting ash,N902,extraction

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通讯作者:

pengcui1982 0@163.com

作者个人主页: 彭翠;朱国才;池汝安;赵玉娜;邹永前

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