عنوان مقاله:

Removal of copper ions Cu (II) from industrial wastewater: A review of removal methods

محل انتشار:

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خلاصه مقاله:

Background and aims: Nowadays heavy metals are the environmental priority pollutants and are becoming as the most serious environmental problems. In recent years removing those from diverse industrial effluents and metal cleaning have been studied. The aim of the present study was to investigate the different methods for cooper removal of cooper ions from industrial wastewater. Methods: This study was a review research. Data were collected from different database in various articles. The various methods for cooper removal from industrial effluents were compared to each other. Results: The present study showed the various methods for cooper removal from industrial wastewater including chemical precipitation, ion exchange, membrane filtration, flotation, electrochemical treatments, coagulation/flocculation and adsorption. High efficiency, cost-effectiveness and easy handling are important factors in the selection of the most suitable treatment systems for industrial effluents. Conclusion: Adsorption is recommended as an effective and economical method for maintaining of cooper ions from aqueous industrial wastes because of high efficiency, cost-effectiveness and simplicity.

کلمات کلیدی:

Heavy metal removal, copper, Industrial wastewater