

عنوان مقاله:

Activated Sludge's Characterization in Wastewater Treatment

محل انتشار:

اولین همایش فناوری های پالایش در محیط زیست (سال: 1390)

تعداد صفحات اصل مقاله: 17

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خلاصه مقاله:

Biological wastewater treatment processes using activated sludge are widely spread due to their low operation cost. They are used for both domestic and industrial wastewater. The performance of this process depends mainly on a good solid-liquid separation between sludges and treated water which, in turn, depends on the biological and physical properties of the sludges. In this process, organic and inorganic pollutants are transformed into acceptable end products and treated water can be discharged to the receiving environment. Many problems can develop in activated sludge operations that adversely affect effluent quality with origins in the engineering, hydraulic and microbiological components of the process. . The real heart of the activated sludge system is the development and maintenance of a mixed microbial culture (activated sludge) that treats wastewater and which can be managed. The overall goal of the activated-sludge process is to remove substances that have a demand for oxygen from the system. In this study, a review of the literature devoted to the characterization of activated sludge has been performed

کلمات کلیدی:

Waste activated sludge (WAS), Primary and secondary treatment, Microorganism

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