

عنوان مقاله:

Gas Hydrate, a promising candidate in water treatment : Review

محل انتشار:

پنجمین کنفرانس ملی نوآوری و فناوری علوم زیستی، شیمی ایران (سال: 1400)

تعداد صفحات اصل مقاله: 11

نویسندگان:

A Hashemizadeh - *Department of Chemical Engineering, Abadan Faculty of Petroleum Engineering, Petroleum University of Technology, Abadan, Iran*

S Nikmanesh - *Department of Chemical Engineering, Abadan Faculty of Petroleum Engineering, Petroleum University of Technology, Abadan, Iran*

خلاصه مقاله:

In the current era of modernization, environmental resources are being continuously affected in an adv manner. The pollution of water through anthropogenic activities is the critical factor in the loss of freshwater resources. The desalination technologies are used worldwide and are becoming a principle mean of getting clean water. Generally fossil fuels are used as an energy source to operate the desalination plants and result in high energy consumption and environmental hazards. The gas hydrate desalination and wastewater treatment are the impending techniques which not only can handle wastes but also provide an economic, less toxic and feasible purified water. In this article, the authors summarized the current knowledge about the properties, advantages/disadvantages, formation control mechanism and applications of gashydrates. The purpose of this review is to encourage further research on the .undiscovered aspects of gaseous hydrates in water treatment through a biocompatible approach

کلمات کلیدی:

Gas hydrates, Water treatment, pollutant removal, Desalination, heavy metals

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