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ARSENIC CONTAMINATION REMOVAL FROM GROUNDWATER UTILIZING NATURAL ADSORBENT

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Abstract

Water contamination by arsenic is a big issue all over the world. Arsenic adsorption from aqueous solutions has been highly prevalent in recent years as observed during water contamination management. Arsenic species exist in a broad variety of pH ranges, and increased arsenic concentrations in groundwater induces cancer in humans. According to studies, millions of people around the world drink arsenic-contaminated water. Natural resources or waste materials from factories with high arsenic potential may be easily collected, used, and disposed. Adsorption capability may also be improved by modifying the adsorbents. The purpose of this study is to provide anoutline of arsenic chemistry as well as previous and new arsenic adsorption technologies. The technological viability of a number of low-cost adsorbents for removing arsenic from polluted water has been examined.

Keywords: Adsorption, Arsenic, Bio-adsorbent, Groundwater etc.