

## عنوان مقاله:

Applications of nanotechnologies in water industry

## محل انتشار:

اولین کنفرانس بین المللی تصفیه فاضلاب و بازیافت آب، فناوری ها و یافته های نو (سال: 1388)

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## خلاصه مقاله:

Water is one of the most essential elements on the earth which is considered as a valuable resource for every country. However, energy resources have being recognized as the most important resources of countries since the last century, water will be the first resources of countries in the near future. There are some alternatives for the non-oil energies, which are not cheap but more available, while there is no replacement for water, a vital material of all living creatures. Thus there is a great emphasis on the saving and rehabilitation of water resources. Shortage of fresh water in the developing countries makes the development of nanotechnology of a crucial priority. New technologies, specifically the nanotechnology, can use different methods to recycle clean water from contaminate sewage for agricultural, industrial and even household consumptions. The usage of nanotechnology as a management solution is effective in reducing the environmental impacts of sewage. Different aspects of water resource management including water quality, water recycling, disinfection of water, water resources protection, eliminating heavy metals and re - usage of savage will be discussed in this paper with an emphasis of the use of nanotechnologies. The overall effects .of these matters in improving health indices will be further discussed

## کلمات کلیدی:

Nanotechnology, Water Resources, Water Recycling, Water Quality

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