

Review

Recent progress on study of hybrid hydrogels for water treatment

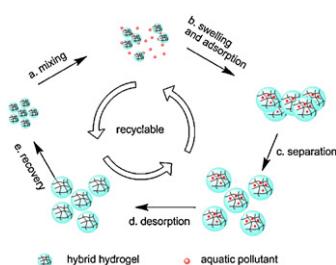
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HIGHLIGHTS

- Hybrid hydrogels as adsorbents for water treatment.
- High mechanical strength, low cost, easily recovered.
- Outstanding adsorption capacity for metal ions and dyes especially.
- The incorporation of clay can reduce the cost and improve the adsorption capacity.

GRAPHICAL ABSTRACT



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ABSTRACT

In recent years, hybrid hydrogels have gained great attention as effective adsorbents due to their high water retention and low cost. This paper gives an overview of the principal results obtained during the treatment of water utilizing hybrid hydrogels for the removal of metal cations, radionuclides, dyes, anions and other miscellaneous pollutants from water. It is evident from the literature survey that hybrid hydrogels have shown good potential applications for the removal of various aquatic pollutants.

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1. Introduction

With the rapid development of metal plating facilities, mining operations, leather tanning, and pesticides industries, heavy metals wastewater and organic compound wastewater are directly

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