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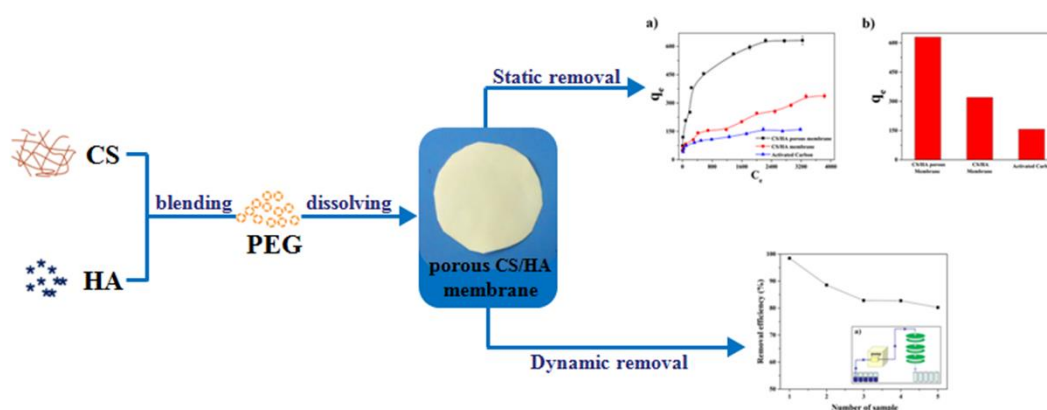
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Graphical Abstract:



Highlights

- Integration of appreciably high adsorption capacity and the high-speed dynamic dye removal.
- Synthesis protocol is much simpler, environmental-friendly and economical.
- The proposed membrane featured repeated dye removal.

Abstract:

The unique characteristics of Chitosan (CS) such as resource abundance, good biocompatibility, film-forming ability and sufficient sites ($-\text{NH}_2$ and $-\text{OH}$) for adsorption of heavy metals or organic pollutants make CS-based membranes a promising membrane adsorbent. In this work, a porous Chitosan/Hydroxyapatite

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