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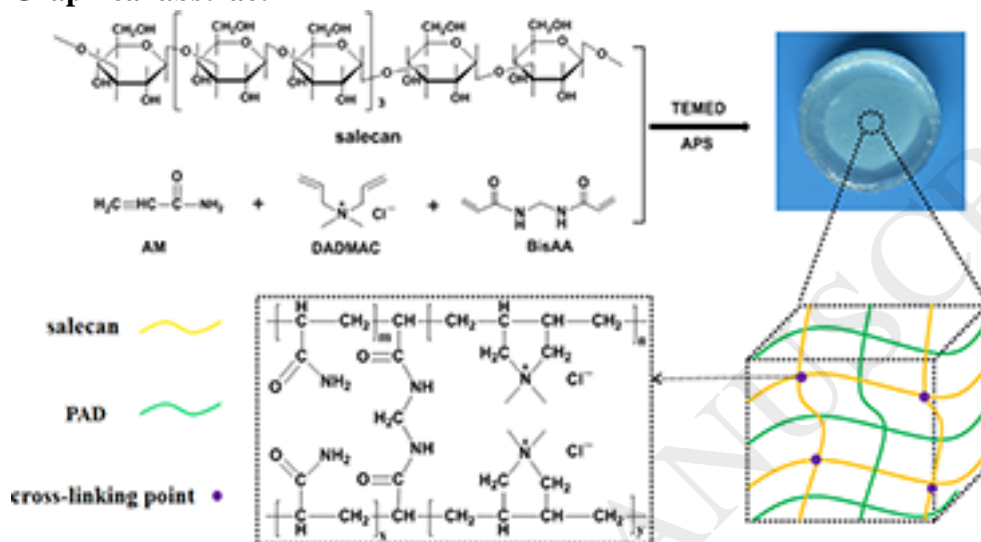
Polysaccharide-based cationic hydrogels for dye adsorption

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Graphical abstract



Highlights:

- Salecan-containing cationic hydrogels were designed for adsorption of dye;
- Salecan-containing gels were prepared via radical polymerization technique;
- Effect of salean content on the hydrogel properties were studied;
- Effect of salean content on the adsorption behaviors were evaluated.

Abstract:

With advances in soft material design and engineering, naturally resourced polysaccharides have frequently been used to construct hydrogels because of their unique properties such as renewability, biodegradability and biocompatibility. In this work, we use a water-soluble microbial polysaccharide, salean as a trapped natural polymer, poly(acrylamide-co-diallyldimethylammonium chloride) (PAD) as a

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