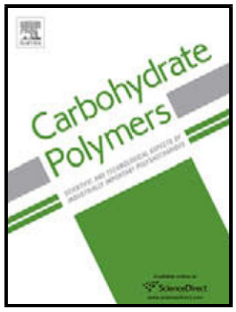

Title: Nano-biopolymer effect on forward osmosis perform<!–<query id="Q1">The two email addresses has been received n̈egin_ghaemi@kut.ac.ir änd n̈egin_ghaemi@yahoo.comf̈or corresponding author, the email address n̈egin_ghaemi@yahoo.comḧas been removed because authors' e-mail addresses should have a domain name that is clearly linked to an academic, government, or professional institution, e.g.: m.ward@exeter.ac.uk; m.ward@metoffice.gov.uk; m.ward@elsevier.co.uk. Please check.</query>–>ance of cellulosic membrane: high water flux and low reverse salt

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Nano-biopolymer effect on forward osmosis performance of cellulosic membrane: high water flux and low reverse salt

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Highlights:

- Chitosan nano-biopolymer (CS-NPs) was synthesized and embedded in membrane matrix.
- CS-NPs modified hydrophilicity and structural parameter of nanocomposite membrane.
- Nanocomposite membranes were successfully utilized in FO desalination application.
- High osmotic water flux and low reverse salt transport were simultaneously achieved.