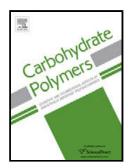
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flux and low reverse salt

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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.

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