

# Bioinspired Channel-based Membranes as a new membrane platform for water separations and purification

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## Speaker

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## Abstract

- Artificial water channels are synthetic mimic of biological water channel aquaporins.
- A new type of water channels enable fast and selective water permeation through water-wire networks.
- Channel-based membranes overcome the permeability-selectivity trade-offs of conventional polymeric membranes.
- Bioinspired membranes can provide a new platform of membrane-based water treatments.