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Enhanced separation performance of carbon nanotube–polyvinyl alcohol composite membranes for emulsified oily wastewater treatment under electrical assistance

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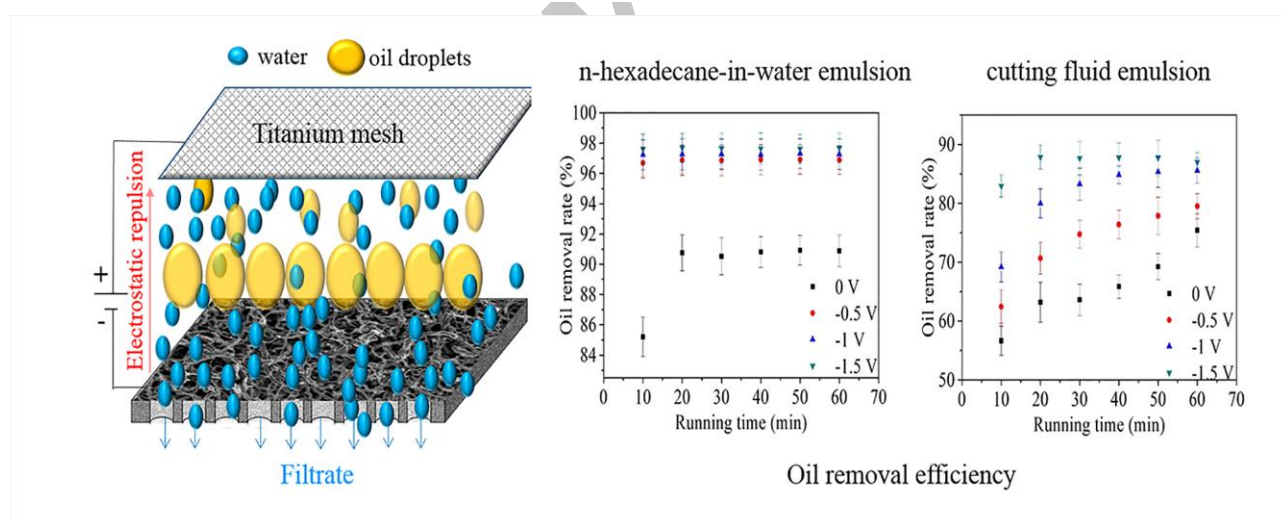
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Graphical abstract



## Highlights

- Superhydrophilic and under-water superoleophobic CNT-PVA composite membranes were used for emulsified oily wastewater treatment.
- The composite membranes exhibited conductivity and served as cathode during filtration.
- Separation performance was improved when the membranes was applied with potential.
- The membrane achieved enhanced antifouling ability after the application of potential.

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