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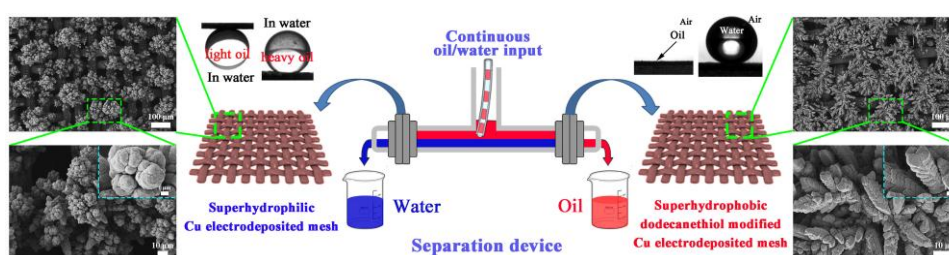
# Continuous, high-flux and efficient oil/water separation assisted by an integrated system with opposite wettability

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## Graphical Abstract



A pair of meshes with opposite wettability was integrated into a T-tube device for continuous, high-flux and efficient oil/water separation.

## Highlights

- A pair of meshes with opposite wettability was integrated into a T-tube device for continuous, high-flux and efficient oil/water separation.
- The superhydrophobic or superhydrophilic meshes were fabricated by a facile method.
- The integrated system can continuously separate both oil and water phase from the oil/water mixtures.
- The two-way separation mode essentially solves the oil liquid accumulation problem that the single separation membrane needs to tolerate.

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