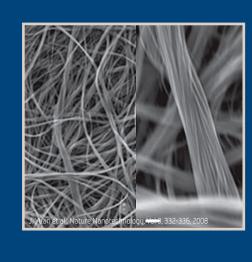


# Oil-water separation by adsorbents and membranes

Ambient temperature processes for purifying water and capturing the oil. Systems can be developed for installation on boats and collect oil from oil-in-water dispersions.

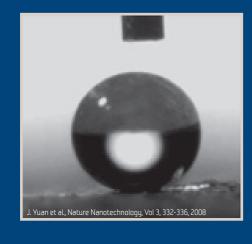
#### Adsorbents

- Adsorbent mats
- Super-oleophilic nanoporous material based on coated ceramic nanowires
- Possible oil regeneration
- Can absorb 20 times its own weight in motor oil
- Can be recycled several times



#### Membranes

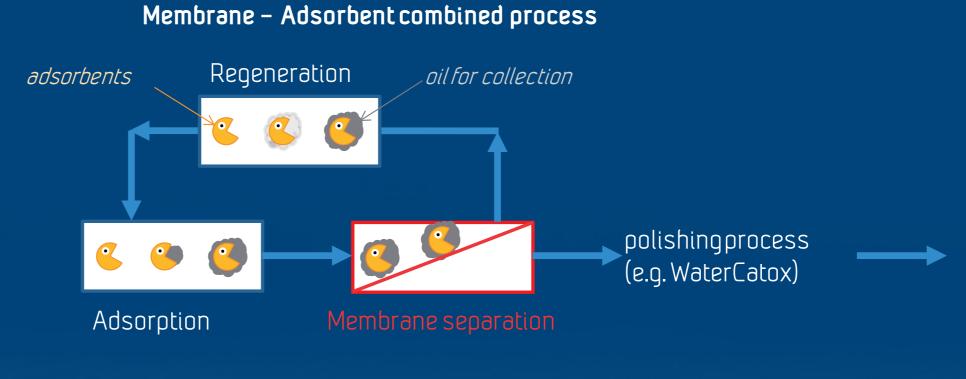
- Hydrophilic membrane
- Controlled pore size
- Polishing step: Watercatox® catalytic membrane

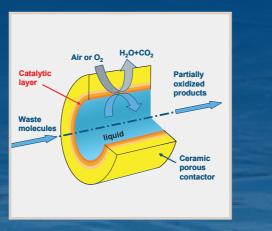


### Adsorbents + Membranes

- Efficient adsorbent separation
- Possibility for adsorbent regeneration
- Continuous operation
- Similar to FracSep® technology for oil purification







## Contact:

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