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Research Theme

Polymer and Natural Materials and Manufacturing (PNMM)

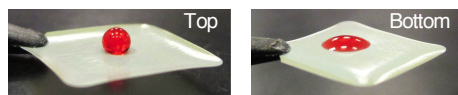
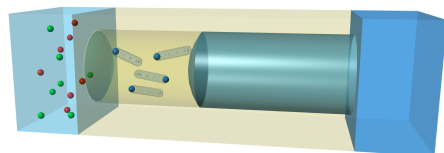
Research Areas

- Membrane-based separation
- Water treatment
- Desalination
- Energy / Resource harvesting from wastes
- Nanoporous media
- Biomimetic membranes
- Antifouling surface modification
- Oleophobic / Hydrophobic surfaces
- Nanomaterials

Research Facilities/Tools

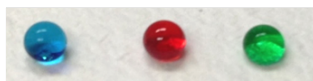
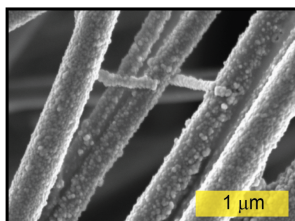
- Oleophobic / Hydrophobic surface modification facilities
 - Membrane testing facilities for biomethane separation / desalination
 - Spin coater
- To be purchased (through CFI)
- Streaming potential analyzer
 - Tensiometer
 - Porosimeter
 - Plasma cleaner

Desalination and water treatment



Nature Nanotech. (2014)

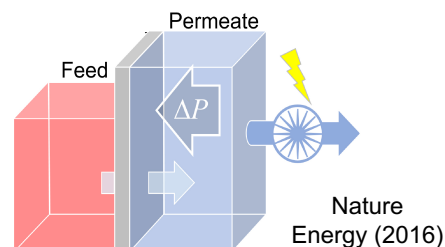
Omniphobic membranes



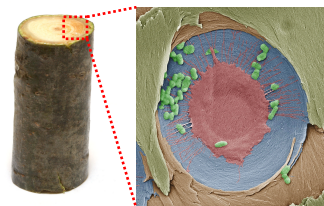
Water Oil Ethanol

ACS App. Mat. Int.
(2016)

Energy harvesting



Biomimetic membranes



PLOS One
(2014)