

## Membrane for energy generation

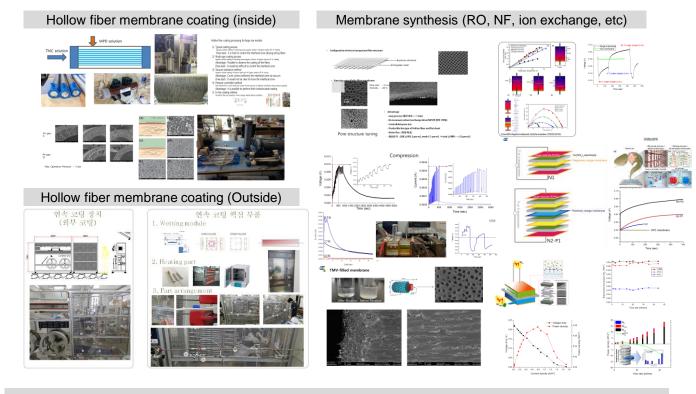
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## **Descriptions of Research Topics**

- Development of interfacial polymerization
- Development of UF/MF membrane
- Large scale continuous coating technology (hollow fiber and flat sheet)
- Biomimic ultra-thin ion exchange membrane
- Chemical surface modification

## Applications:

- Energy generation membrane (PRO, E-PRO, Energy harvesting NF, salinity gradient, etc)
- Desalination, water treatment
- DIW water recirculation system
- Gas separation
- Sustainable coating surfaces



**Research Fields** 1 Polymeric membrane 2 Environment Resource **Keywords** Hollow fiber membrane coating, RO/NF/UF/MF membrane, energy generation, water/gas separation