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## Solar energy

- Next-generation photovoltaic materials and technologies
- Life cycle assessment (LCA)



## Water

- Advanced membrane technologies
- Pollution remediation (oil spills, nitrate reduction)
- Fluid-fluid separations



## Hybrid materials

- Sequential infiltration synthesis (SIS) can grow inorganic materials within polymeric materials
- Applications in lithography, energy conversion/storage, membranes, and beyond

