SiPure membranes

Harsh environment filtration for efficient low-cost separations

**Extreme durability** for low-maintenance performance in industrial applications

- Broad range of chemical, thermal, and mechanical compatibility:
  - pH < 0
  - Temperature > 300°C
  - All organic solvents
  - Pressure > 800 psi

**Tunable performance** across a broad range of challenging separation processes

- Hydrophilic antifouling surface

**Competitive pricing** via a simple & scalable manufacturing approach

- A patented two-step approach allows for a production cost of $1.50 per membrane tile

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With generous support from:

- **Brendan Smith**
  - Postdoc
  - MIT

- **Jeffrey Grossman**
  - Professor
  - MIT