

# Polymer and Nanocomposite Materials Lab



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## Education:

Dr. of Eng., National Sun Yat-Sen University

## Lectures:

- Fiber materials and process
- Special Topics on Fibrous Composites
- Introduction of Polymer Materials

### • Functional Nanocomposites

Oil-water separation

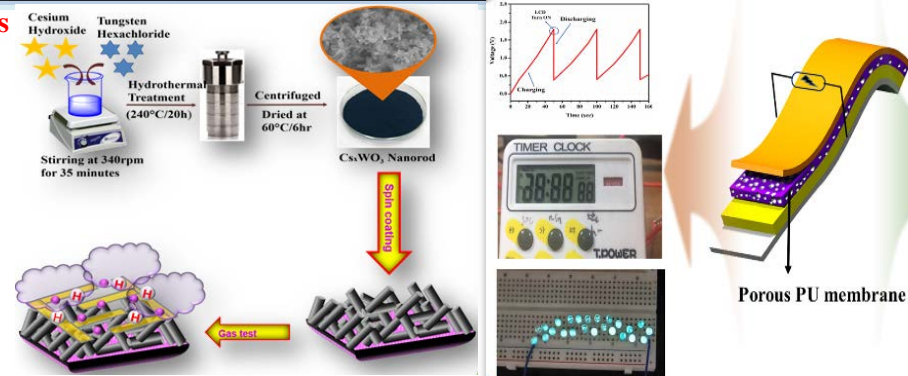
Photothermal conversion

Photocatalysts

Pyroelectric/Piezoelectric/

Triboelectric

Shape memory



### • Advance Material Process

Electrospinning

Melt blown non-woven

Preparation of nanocellulose fiber (CNF)

Wet spinning technology

Preparation of CNF aerogel

### • Composite materials and analysis

Self-reinforced composites

Stress concentration effect by

Digital Image

Correlation Method (DIC) Analysis

Anti-vibration Damper by

3D printing technology

