

# Flexible Optoelectronic Materials & Devices Lab



## Chih-Yu Chang

Associate Professor

Dept. of Materials Sci. and Eng.

Tel: +886-2-2737-6382

E-mail: cychang@gapps.ntust.edu.tw

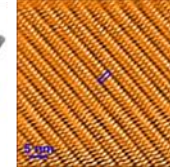
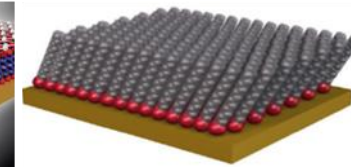
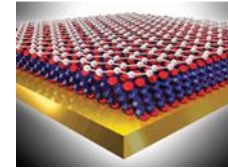
### Education:

PhD. of Materials Sci. and Eng.,  
National Taiwan University

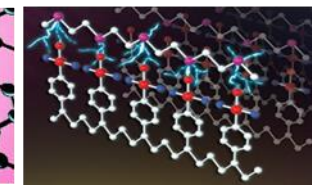
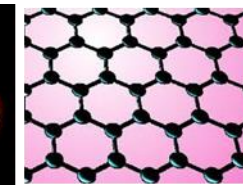
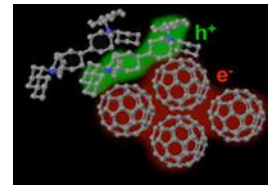
### Lectures:

- Chemistry (I)
- Organic Optoelectronic Materials
- Vacuum Technology & Application
- Flexible Optoelectronic Materials0

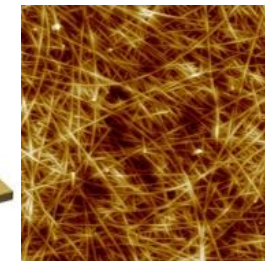
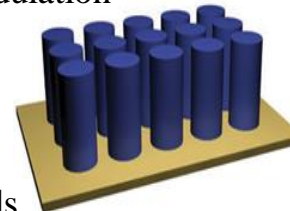
- **Surface Chemistry & Functionalization**  
Atomic Layer Deposition  
Molecular Layer Deposition  
Self-Assembly Monolayer



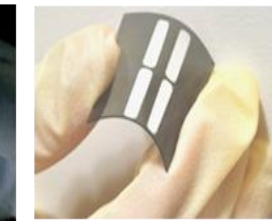
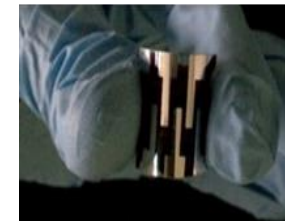
- **Interfacial Engineering**  
Functional Thin Films  
Interfacial Properties  
Work-Function Modulation



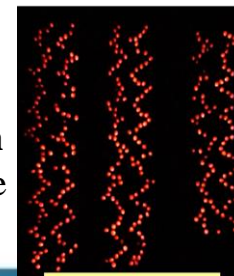
- **Low-Dimensional Nanomaterials**  
Nanoparticles  
Nanowires/Nanorods  
Layered Nanomaterials



- **Flexible Optoelectronic Materials & Devices**  
Organic Solar Cells  
Hybrid Perovskite Solar Cells  
Next-Generation Photosensors



- **Biosensing Devices & System**  
Wearable Self-Powered Device  
Implantable Bioelectronics



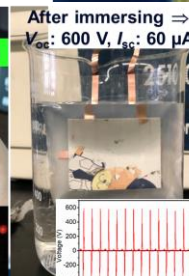
Light up 353 LED



Light up 240 LEDs



Light up 25 LEDs



After immersing  $\Rightarrow$   
 $V_{oc}$ : 600 V,  $I_{sc}$ : 60  $\mu$ A