

# Research Topics

## ◆ Optoelectronic Semiconductor Devices

- Solar cells
- LEDs
- Lasers
- Photodetectors

## ◆ Nanomaterials

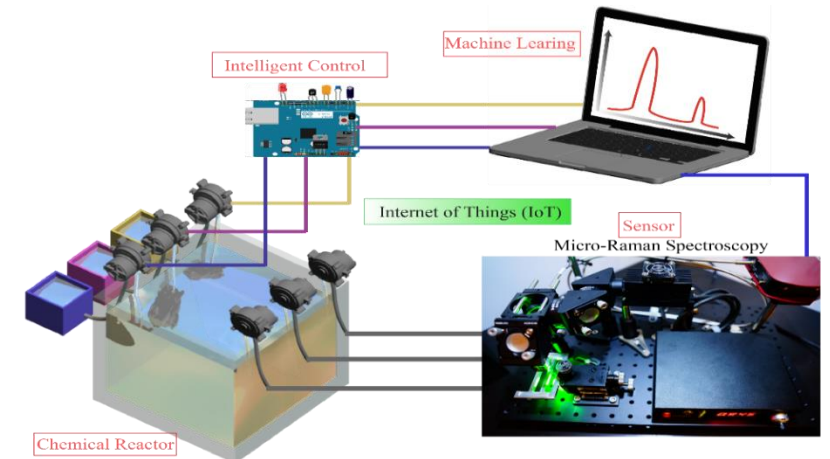
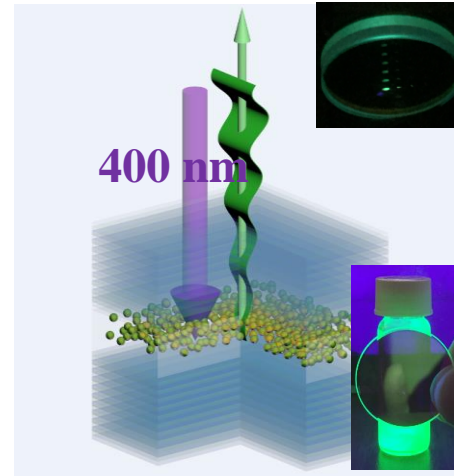
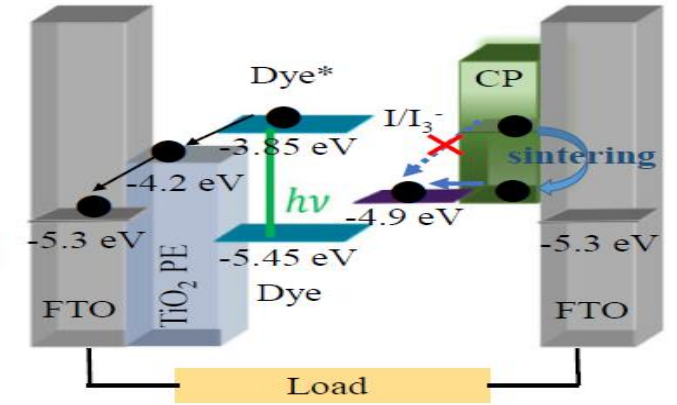
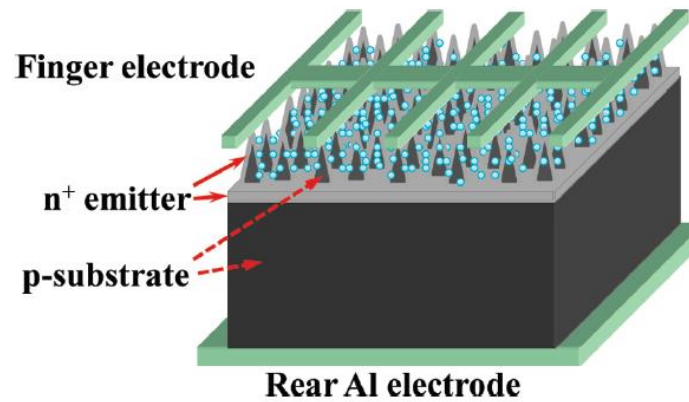
- Perovskite QDs
- MoS<sub>2</sub> Nanoflakes
- Graphene Nanoflakes
- Si Nanowires

## ◆ Virtual Instruments (LabVIEW)

- DAQ
- Instrument Control
- Arduino (Embedded System)

## ◆ Automatic Optoelectronic Measurement

- Optomechatronic Integration Engineering
- Optical System Design



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NATIONAL INSTRUMENTS  
**LabVIEW**<sup>™</sup>  
Graphical System Design Platform

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Reconfigurable hardware    High Performance Computing