



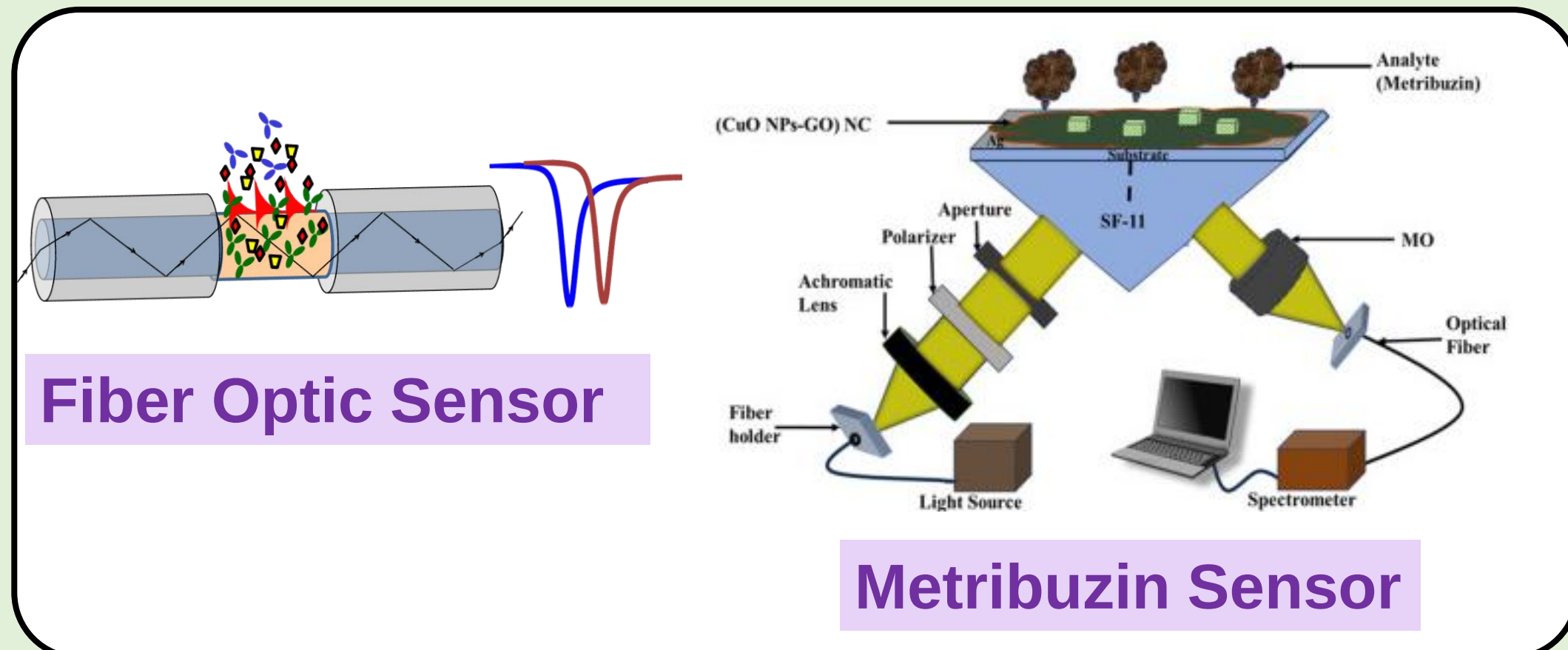
Applied Plasmonics & Photonics Lab

Sachin Kumar Srivastava

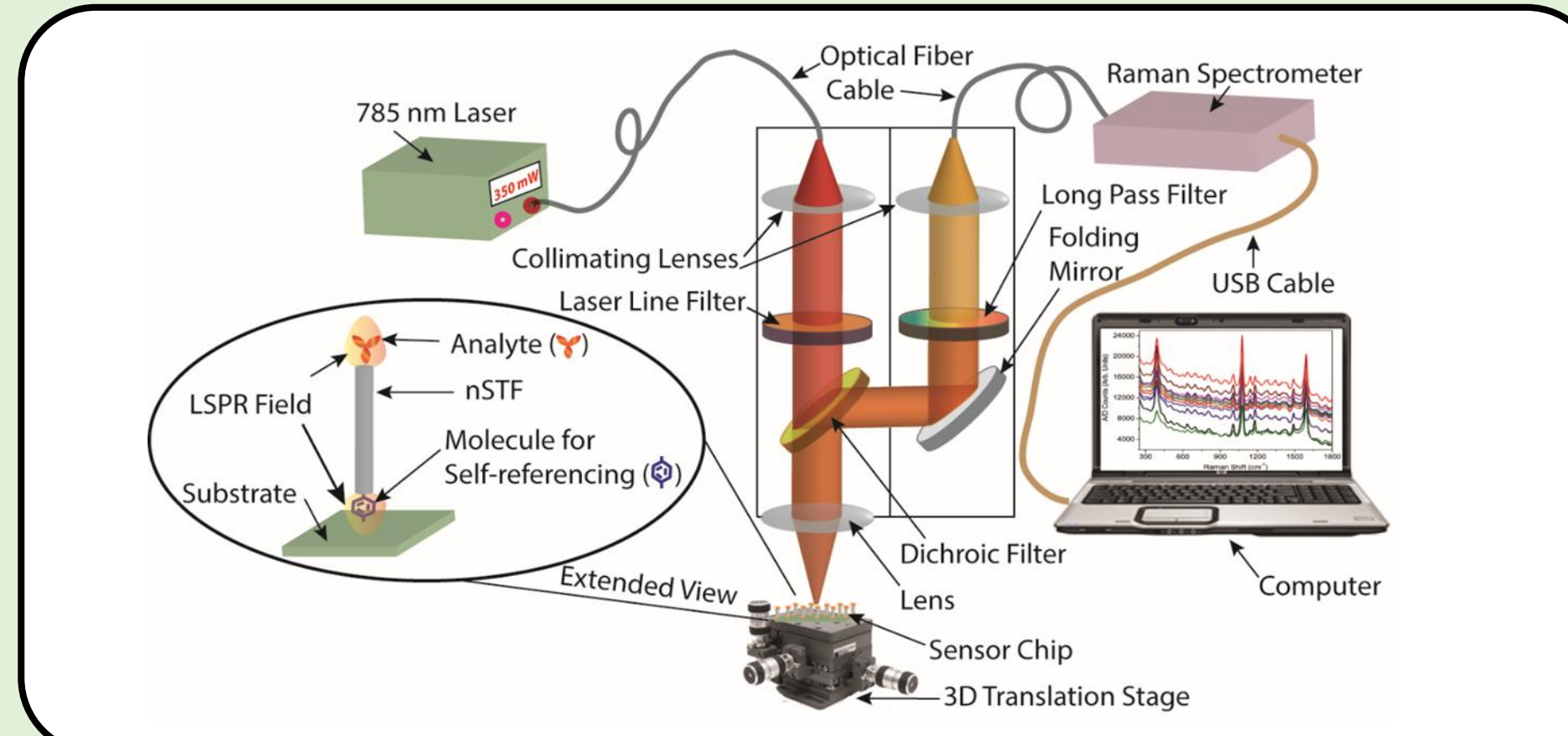
Arti Yadav, Jhuma Pan, Swapnil Khurana, Ojasvi Singh, Rohit Kumar Vishwakarma, Bharat Singh Deora, Rakesh Naik

Department of Physics, Indian Institute of Technology Roorkee, Roorkee, India

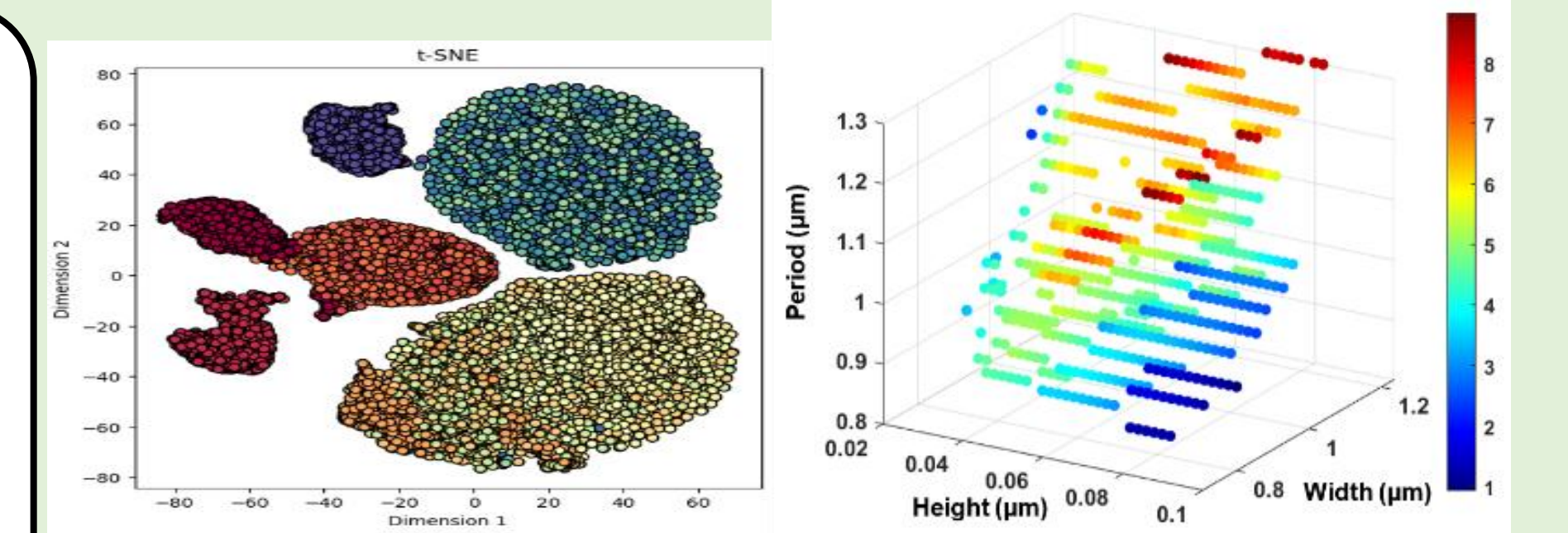
Surface Plasmon Resonance (SPR) based Sensors



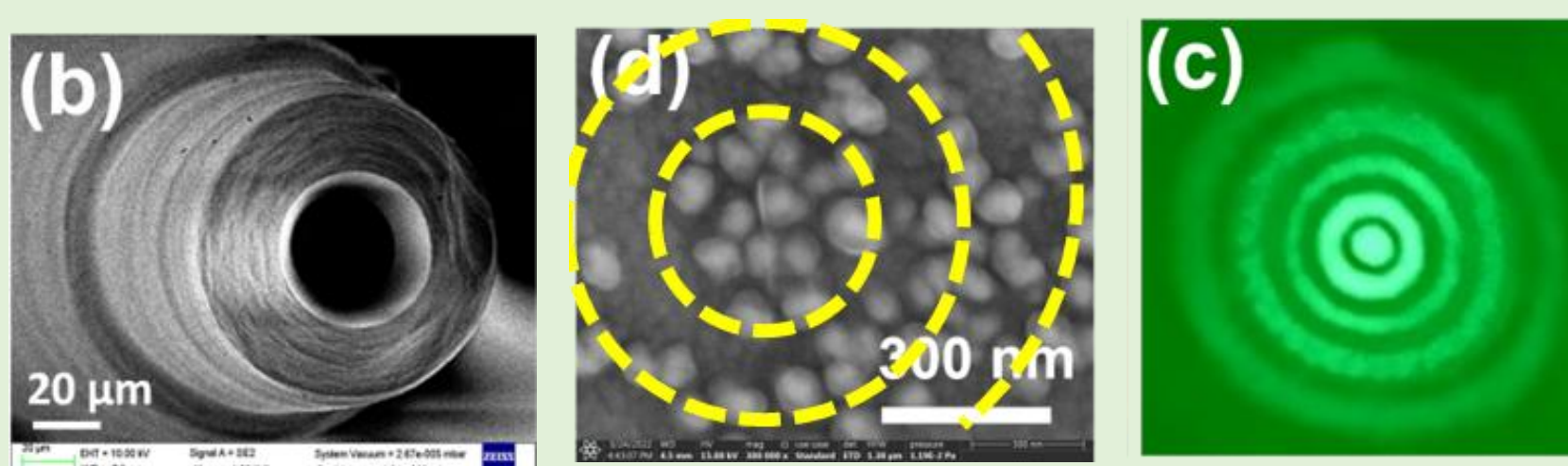
Plasmon Enhanced Spectroscopies



Machine/Deep Learning Assisted Sensors

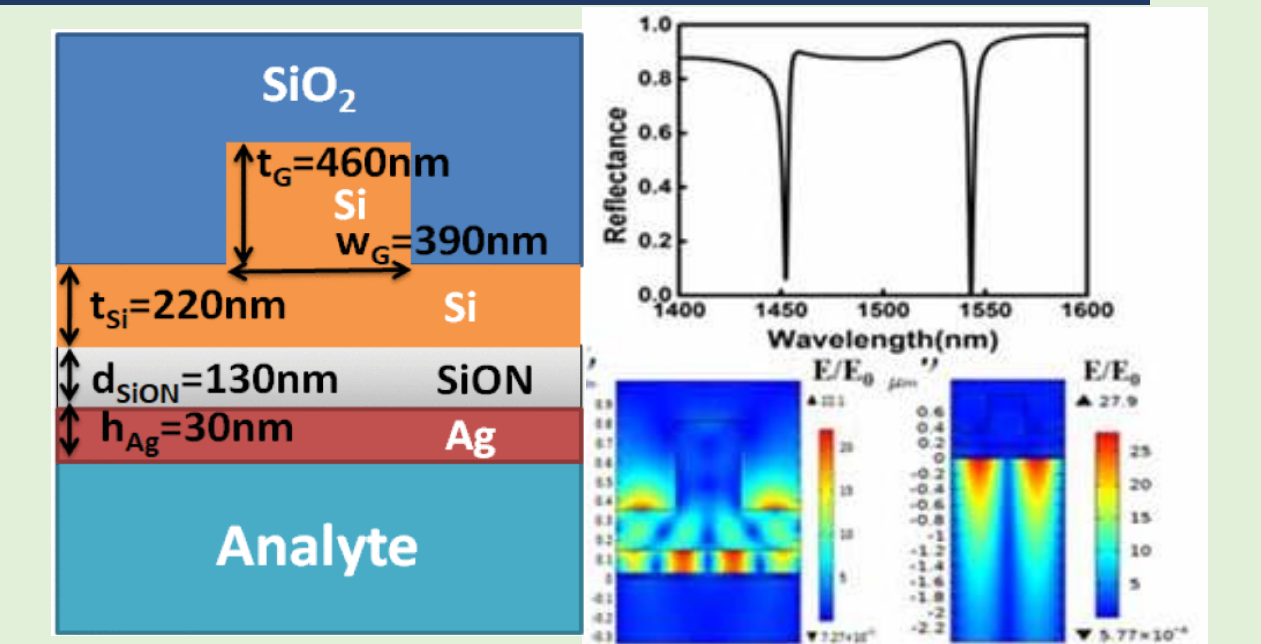


Plasmo-fluidic Sensor



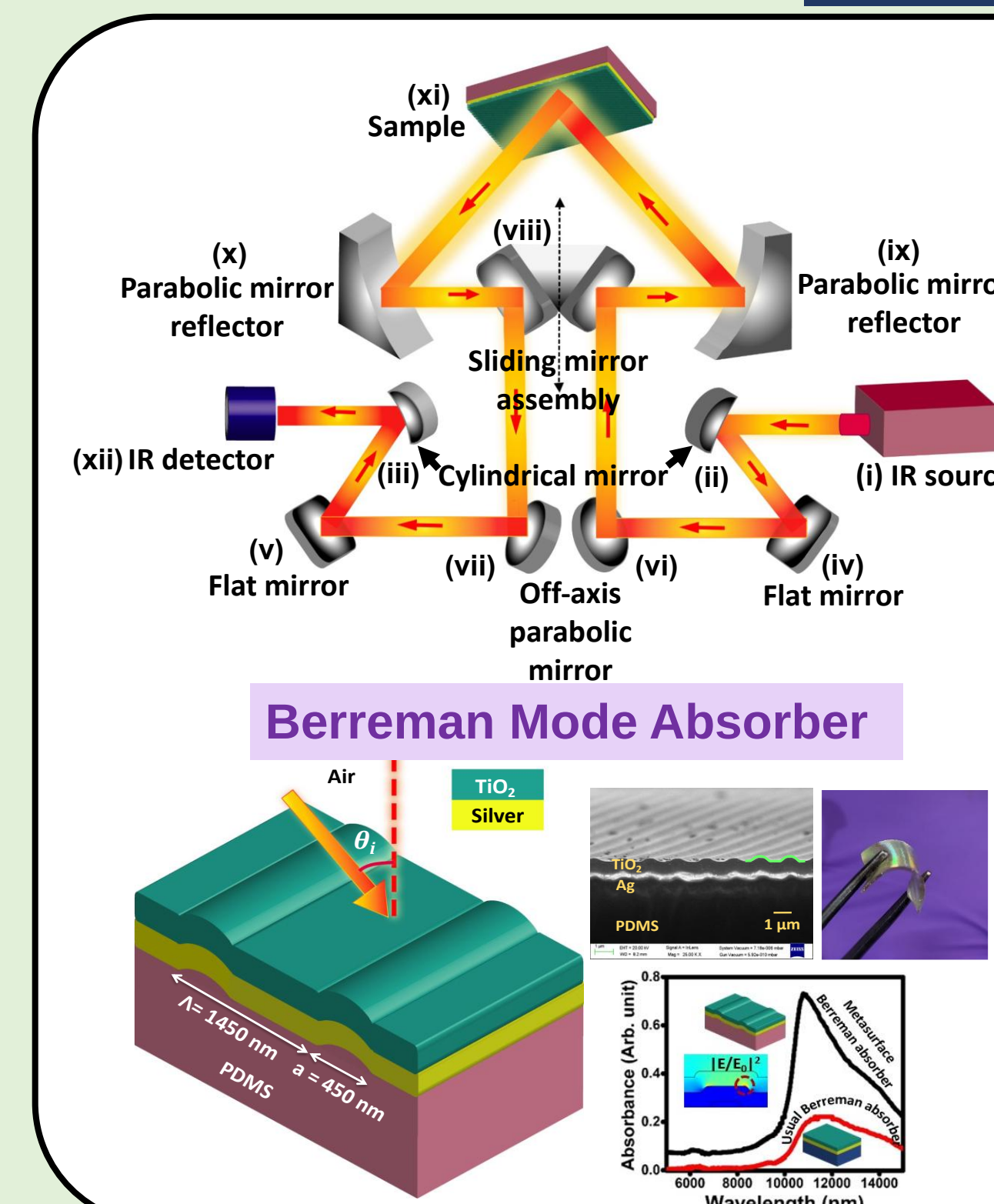
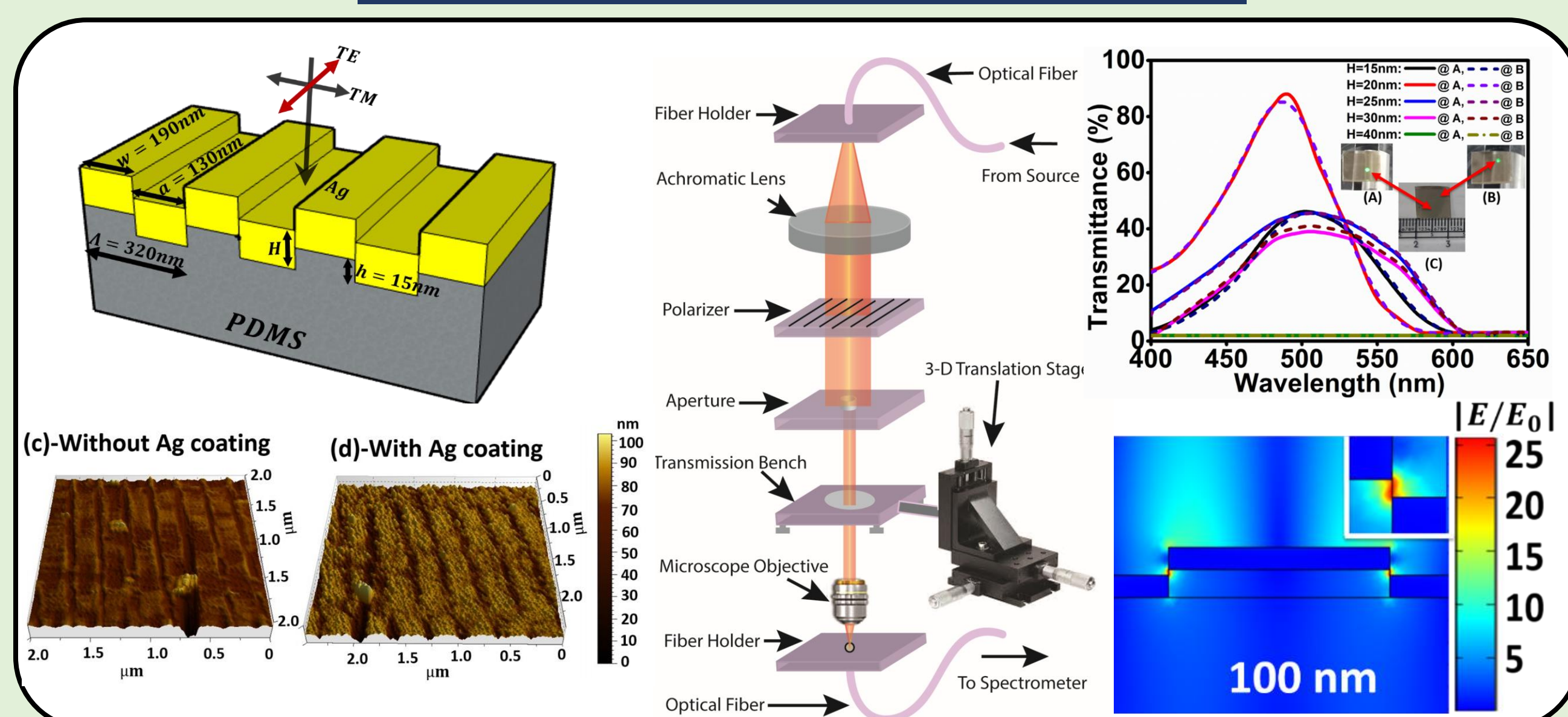
Research activities @ APPLab

Metasurface based Sensor

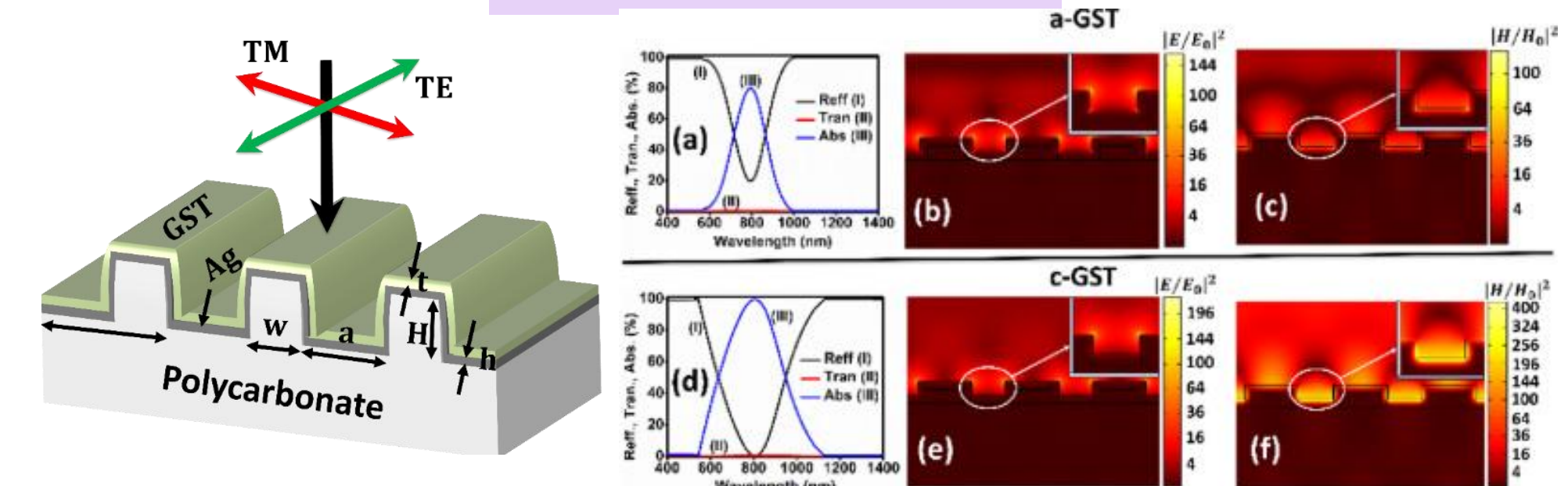


Metasurface Absorber

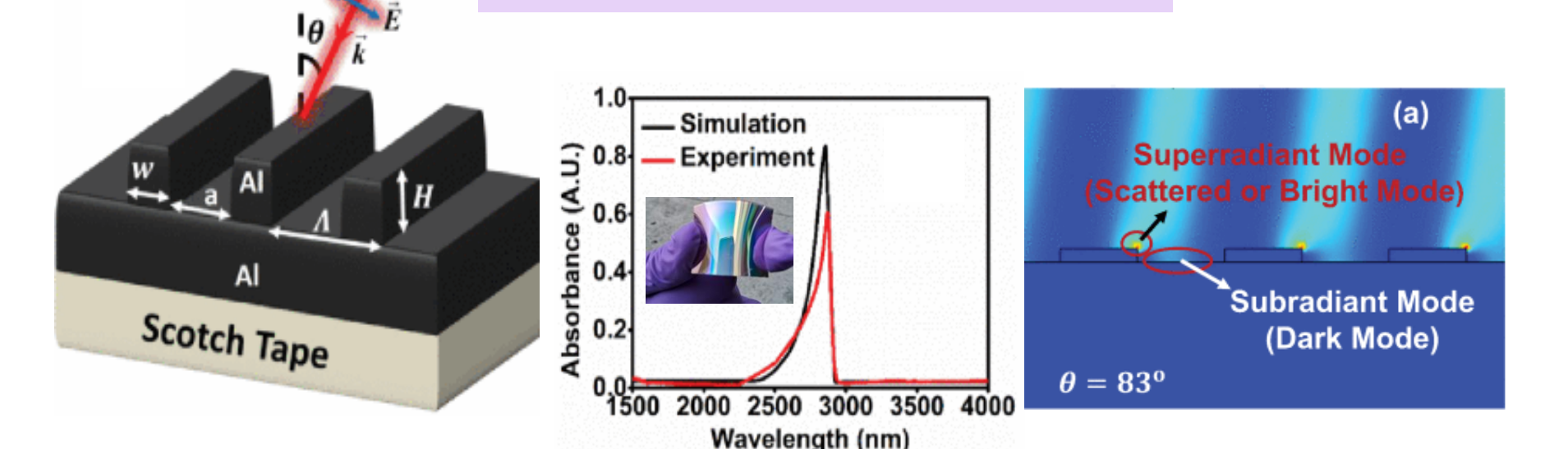
Extra-ordinary Transmission (EOT)



GST Loaded Absorber



Fano resonant Absorber



Research Facilities

UV-Vis optical Characterization

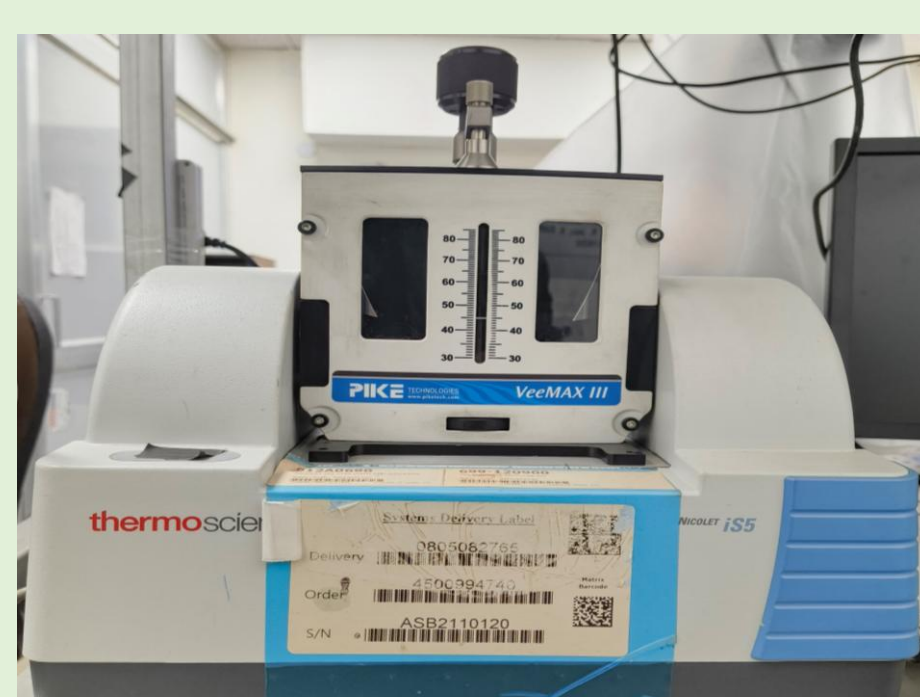
Upright Fluorescence Microscope

Inverted Microscope

Kretschmann based SPR set-up



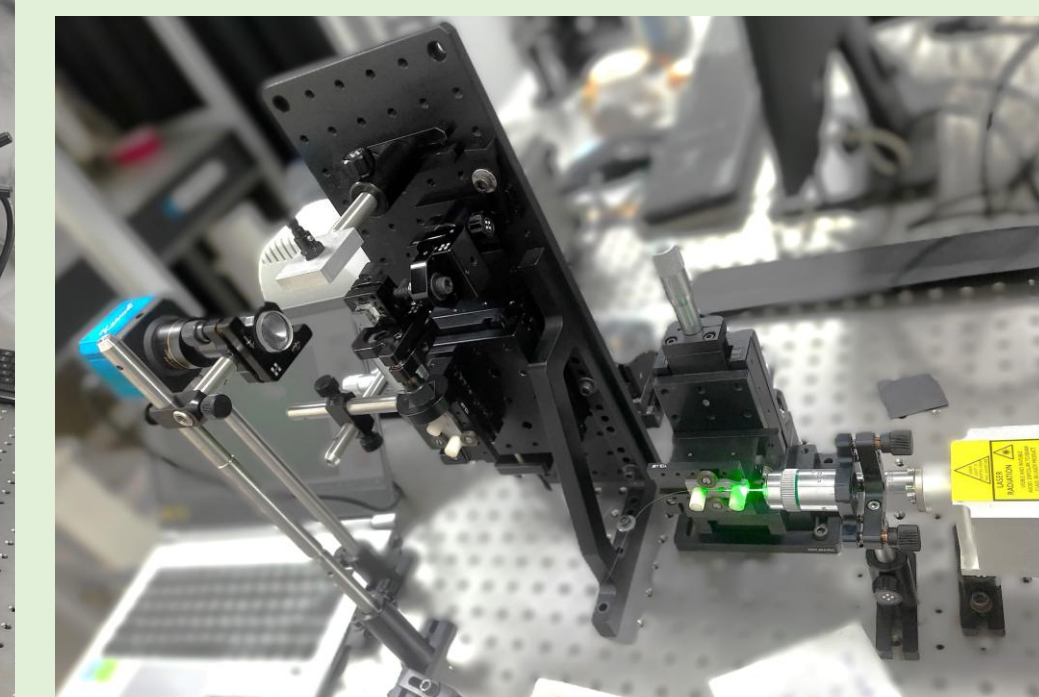
FTIR Spectrometer equipped with ATR assembly



Raman setup



Plasmo-fluidic trapping



Spin Coater



Thermal & E-beam evaporation coating unit equipped with GLAD



Team
APP Lab



Funding Support

