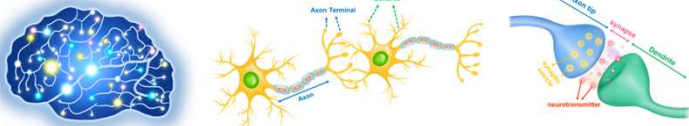


“Being a Self-Motivated, Self-Inspired Independent Researcher with High-Level of Thank Q”

2D Nanomaterials and Device Design Team

Human Brain for Data Processing at Ultra-Low Power Consumption

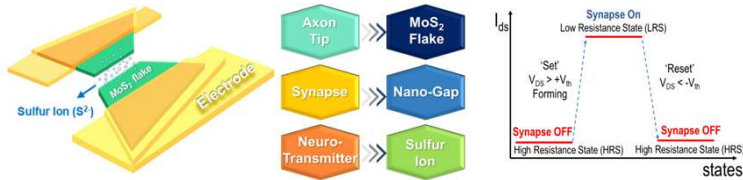


Device Realization to Mimic Signal Transfer Process in Human Brain

2D MoS₂ Neuron-Synaptic Device

Function Analogy

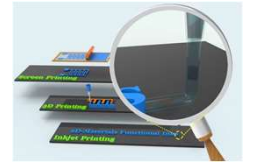
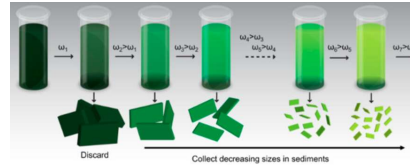
Device Operating Mechanism



2D Materials-Based Sensor Design Team

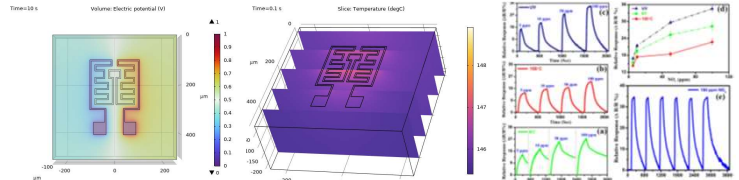
Fabrication of Various 2D Nanomaterials Inks

Printing of 2D Nanomaterial Inks



Sensor Platform Design by Multiphysics Simulation

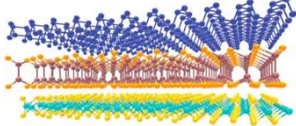
Sensing test



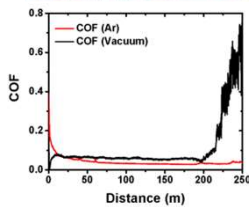
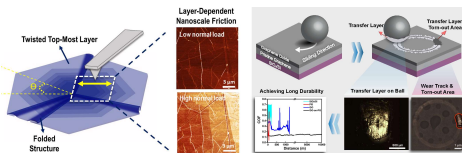
2D Materials Tribology Physics Team

Fabrication of Layered 2D Nanomaterials

Realizing Ultra-Slippy, Wear-Resistant Surface Coating



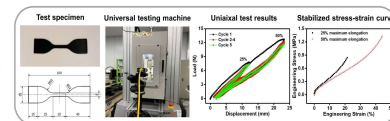
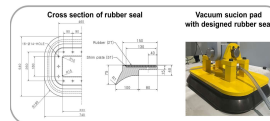
Exploring Tribology of 2D Nanomaterials from Nanoscale to Macroscale



Mechanical/Material Design Team

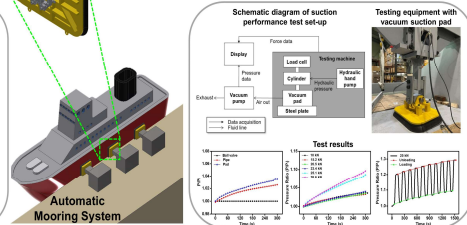
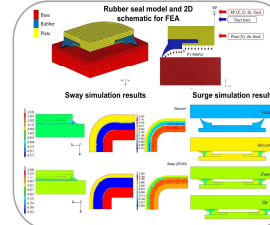
Design of Rubber Seal

Rubber Material Test



Finite Element Method

Suction Performance Test



Conference



ANTLab Workshop



International Research Collaboration



Happy ANTLab



Alumni

Pennsylvania State University, KAIST, POSTEC ... for Ph.D program / SK Hynix, SEMES, Hyundai Motors, LG Energy Solution ... for employment