

EDUCATION

2013~ 2018 Ph.D. Mechanical Engineering Korea Advanced Institute of Science and Technology (KAIST)
2007~ 2010 M.Sc. Mechanical Engineering, Applied Mechanics Ferdowsi University of Mashhad

WORKING EXPERIENCE

2022~ Present Assistant Professor- Aarhus University
2018~ 2021 Post-doctoral researcher- KAIST, Creative Research Initiative Center for Functionally Antagonistic Nano-Engineering.

EXPERIMENTAL EXPERIENCE

- Design and fabrication of photoactive Kirigami structure.
- Growing metal oxide nanowires for multi-responsive actuators.
- Fabrication of soft ionic actuators using tubular graphene mesh.
- Development of a new type of self-sensing actuator.
- Developing kinetic art soft-robots.
- Active control of water permeability inside porous conductive membrane.
- Developing strain sensors by utilization of Ag nanowires.
- Growing graphene on 3D templates by Chemical Vapor Deposition (CVD).
- Synthesizing rGO using Hummers' Method.
- Synthesizing Nitrogen doped graphene for hybrid electrode.
- Synthesizing graphene aerogel.

Research Interests

- . Soft Actuators
- . Artificial Mechanoreceptors
- . Soft Robotics
- . Soft Energy Harvesting Systems
- . Micro/Nano Fabrication

Expertise

- . Ionic Electroactive Polymer Actuators
- . Ionic Sensing
- . Nanomaterial Synthesis
- . Chemical Vapor Deposition (CVD)