

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

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- 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

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

Expertise

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