

Name: Elham Farahani
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Education

BSc.

University: Shahid Rajaei Teacher Training University
Major: Physics
Thesis: Formation of electric dipoles in pea stem tissue due to an electric field
Supervisor: Dr. Fatemeh Ahmadi

Msc.

University: Sharif University of Technology
Major: Physics
Thesis: Fabrication and characterization of electron transport and buffer layer thin films, employing sputtering method, for all-oxide solar cells
Supervisors: prof. Azam Irajizad, Co-Supervisor: Dr. Raheleh Mohammadpour

PhD

University: Institute for Nanoscience and Nanotechnology (INST), Sharif University of Technology
Major: Nano Science and Technology

Research Experience:

- All-oxide solar cell
- Triboelectric Nanogenerator
- self-powered humidity sensor

Publications and Conferences:

- "Formation of electric dipoles in pea stem tissue due to an electric field", Journal of the Korean Physical Society 69.1 (2016): 99-102.
- "Formation of electric dipoles in pea stem tissue due to an electric field", Physics Society of Iran, September 2014.
- "Fabrication of Cu₂O/ZnO/AZO thin films for all-oxide solar cells", presented at the Nanostructured Solar Cells Conference (NSSC94) at Sharif University of Technology, November 2015.



- “Fabrication and characterization of transparent conductive thin film of ZnO:Al(2wt%) thin films grown by RF magnetron sputtering”, Physics Society of Iran, September 2016. (Selected as top poster)
- “Fabrication of flexible self-powered humidity sensor based on super-hydrophilic titanium oxide nanotube arrays”, Scientific reports 10.1 (2020): 1-8.