



مرکز علوم و فنساورى نانو



Center for Nanoscience & Nanotechnology
Sharif University of Technology

Name: Houriyeh Sohrabnavi

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Education:

Ph.D.

University: Sharif University of Technology

Major: Nanotechnology, Nanoelectronics

Thesis: -

Supervisor: -

Msc.

University: University of Tehran

Major: Photonics Engineering, Nano-photonics

Thesis: Liquid crystal-based biosensor for detection of amyloid-beta protein in blood for early detection of Alzheimer's disease

Supervisor: Dr. Mohammad MohammadiMasoudi, Dr. Hassan Hajghassem

Bsc.

University: University of Tabriz

Major: Electrical and Electronic Engineering

Thesis: Setting up the LCD-TFT display with Keil software

Supervisor: Dr. Ali Rostami

Research Experiences:

- Optical Biosensors

- Optical Filters

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Publications:

- Fabrication of a spatially tunable band reject filter with a very wide tunability range based on chiral nematic liquid crystal polymer

Optics Letters (Optica)· Jul 21, 2022, <https://doi.org/10.1364/OL.464754>

- Early detection of Alzheimer's disease by measuring amyloid beta-42 concentration in human serum based on liquid crystals
Sensors and Actuators B: Chemical (Elsevier) · Nov 14, 2023, <https://doi.org/10.1016/j.snb.2023.134966>

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Other Items:

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