



# مرکز علوم و فنساورى نانو



Center for Nanoscience & Nanotechnology  
Sharif University of Technology

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## Education

### BSc.

University: Amirkabir University of Technology

Major: Physics

Thesis: کاربرد پلاسمای سرد در حوزه ی کشاورزی و صنایع غذایی

Supervisor: Dr. Hossein Abbasi



### Msc.

University: Sharif University of Technology

Major: Physics

Thesis: SnO<sub>2</sub> layer curing as a low temperature electron transporting layer in perovskite solar cell

Supervisor: Dr. Nima Taghavinia

### PhD

Thesis:

Supervisors:

## Research Experience:

- Fabrication and Characterization of Perovskite Solar Cells
- Instructor of Perovskite Solar Cell Fabrication Workshop
- Research Assistant in Nanoparticles and Coatings Lab (NCL)

## Publications:

- **A conductive adhesive ink for carbon-laminated perovskite solar cells with enhanced stability and high efficiency (Solar Energy, 266)**

- **Enhancing Planar Perovskite Solar Cell Performance by SnO<sub>2</sub> Interface Treatment Using Urea as an Additive: A Comparative Study of Simple, Low-Temperature Approaches (ACS Applied Electronic Materials, 5)**
- **SnO<sub>2</sub> Layer Treatment with Thioacetamide in Perovskite Solar Cell (Nanochemistry Research, 8)**

• اصلاح سطح لایه SnO<sub>2</sub> با استفاده از تیواستامید در سلول های خورشیدی پروسکایتی (کنفرانس اپتیک و فوتونیک ایران)