



مرکز علوم و فنساورى نانو



Center for Nanoscience & Nanotechnology
Sharif University of Technology

Name: Mahsa Mojiri Andani

Email Address: mah.mojiri.78@sharif.edu



Education:

Ph.D.

University: Sharif University of Technology

Major: Nanophysics – Nanostructures

Thesis:

Supervisor:

Msc.

University: Isfahan University of Technology

Major: Condensed Matter Physics

Thesis: Fabrication of hydrogen gas sensor based on $ZnMn_2O_4$ nanoparticles

Supervisor: Prof. Parviz Kameli

Bsc.

University: Isfahan University of Technology

Major: Physics

Research Experiences:

Characterization Data Analysis | Resistive Gas Sensors | Photothermal Research



مرکز علوم و فنساورى نانو



Center for Nanoscience & Nanotechnology
Sharif University of Technology

Publications and Conferences:

- Mojiri, M., Kameli, P., Irajizad, A., & Aslibeiki, B. (2026). Mesoporous $ZnMn_2O_4$ nanostructures synthesized via co-precipitation for efficient hydrogen sensing. *Inorganic Chemistry Communications*, 116102.
- Mojiri Andani, M., Kameli, P., & Irajizad, A. (2025). Fabrication and Optimization of Hydrogen Gas Sensor Using Porous $ZnMn_2O_4$ Nanostructures. *Proceedings of the 8th National Congress on Chemistry and Nanochemistry: From Research to National Development, Iran*.
- Mojiri Andani, M., Kameli, P., Salari, S., & Ranjbar, M. (2024). Fabrication of NO_2 Gas Sensor Based on $ZnMn_2O_4$ Nanoparticles. *Journal of Chemistry and Nanochemistry*, 2(4).
- Mojiri Andani, M., & Ranjbar, M. (2023). Investigating the photothermal effect in $CuSO_4 \cdot 5H_2O$ and comparing solid and solution phases. *Iranian Physics Conference, University of Isfahan, Iran*.

Academic/ Professional Honors and Achievements:

- Ranked 1st in the Solid State Physics field (among 26 entrants) due to academic excellence.
- Admitted to the M.Sc. program without entrance examination (Talented Students Scheme).
- Admitted to the Ph.D. program without entrance examination (Talented Students Scheme).

Scientific Outreach Activities:

- Physics Day, Isfahan University of Technology, 2018 – Team Leader; supervised a student group and coordinated experimental demonstrations.
- Physics Day, Isfahan University of Technology, 2019 & 2024 – Experimental Demonstrator; performed and explained physics experiments during the scientific outreach event.