

Samaneh Ayneband

PERSONAL PARTICULARS

Surname: Ayneband
First name: Samaneh
Date of birth: May 20, 1992
Place of birth: Tehran, Iran
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CITIZENSHIP

Iranian

EDUCATION

Fall 2016:

Ph. D in Material Engineering, Sharif university of Technology, Tehran, Iran.
Adviser: Dr. Abdoreza (Arash) Simchi

GPA: 17.91/20

Fall 2014 - 2016:

M.Sc. in Nanomaterial Engineering, Sharif university of Technology, Tehran, Iran.
Adviser: Dr. M. Reza Mohammadi
Thesis: "Investigation of electron transport and scattering effect of dye-sensitized

Solar cells, using titania nanoparticles and perovskite structures (ATiO₃)"

GPA: 18.70/20

Fall 2011 - 2014:

B.Sc. in Metallurgy Engineering, Amirkabir University of Technology, Tehran, Iran.
Adviser: Dr. Mostafa Ketabchi
Thesis: "Investigation of structure and mechanical properties of multi-layered Al/Cu composite produced by accumulative roll bonding (ARB) process"

GPA: 17.90/20

Fall 2008 - 2011:

Mathematics and Physics High School Diploma, "Fazilat" High School, Tehran, Iran.

LANGUAGES

- **Persian:** Native
- **English:** Fluent

SKILLS

- characterization methods: XRD, SEM, DRS, FTIR, UV-Vis, DLS
- Softwares: MATLAB, X'Pert HighScore Analytical XRD Software

WORK EXPERIENCES

Spring 2016:

Sharif University:

- Teacher assistant, Principles of Material Science and Engineering (Lecturer: Prof. Simchi)
- Teacher assistant, Advanced Thermodynamics (Lecturer: Prof. Simchi)

March 2015:

Rasekhoon company, Tehran:

- Working on synthesis the industrial production of hydrophobic sols

May 2015:

Electronic department of Sharif University:

- working on organic transistors

July 2013:

Pars khodro Company, Tehran:

- A part time apprentice in Body engineering part.
- A part time apprentice in Quality control lab.

HONORS AND AWARDS

- Got accepted in Sharif university for Ph. D without entrance examination (with scholarship of Bonyad Meli Nokhbegan)
- Got accepted in Amirkabir university for Ph. D without entrance examination (with scholarship)
- Graduated with rank A among Nano material M. Sc. Students
- Got accepted in Sharif university for M. Sc.(Nano material) without entrance examination.
- Got accepted in Amirkabir university for M.Sc.(Welding) without entrance examination.
- Graduated with rank A among B. Sc. Students in Material engineering, Amirkabir University of Technology, Iran.

Publications

- S. Ayneband, M. R. Mohammadi, Effect of perovskite Cadmium titanate on photovoltaic properties of TiO₂ dye-sensitized solar cells, The third national conference on new technologies in the chemical, petrochemical and Iran Nanotechnology, June 2016.
- S. Ayneband, M. R. Mohammadi, Effect of perovskite Cobalt titanate on photovoltaic properties of TiO₂ dye-sensitized solar cells, The first national conference on Sustainable Development in nanomaterial, nanostructure and nanotechnology, May 2016.

Intrests

- Solar cells specially Quantum dot solar cells
- Photodetectors
- Transistors
- Optoelectronics field