

# CV

## Contact Information

**Name:** Seyed Farshad

**Last Name:** Akhtarianfar

**Date of Birth:** May 7, 1989

**Gender:** Male

**Marital Status:** Single

**Place of Birth:** Tabriz, Iran

**Email:** Farshad.akhtarian@gmail.com

**Cell phone:** +98 914 312 54 24

**Orcid ID:**



## Research Interests

Nano fabrication, 2D nanomaterials, Microstructural characterization, Nanostructure-based gas sensors, Nanostructure-based UV sensors

## Education

1. Postdoctoral researcher, Research Institute for Applied Physics & Astronomy (RIAPA), Since Sep. 2017.  
**Supervisor:** Dr. Saeed Shojaei
2. Visiting Student, Optomechatronics Research Institute, Pusan National University (PNU), Busan 46241, Republic of Korea, Sep. 2016-Apr. 2017.  
**Supervisor:** Prof. Suck Won Hong
3. PhD in Nanotechnology, Institute of Nanoscience & Nanotechnology, University of Kashan, Kashan, Iran.  
**Supervisor:** Prof. M. Almasi-Kashi
4. M.Sc in Nanotechnology, Institute of Nanoscience & Nanotechnology, University of Kashan, Kashan, Iran.  
**Supervisor:** Dr. A. Ramazani  
**Advisor:** Prof. M. Almasi-Kashi  
B.Sc in Engineering Physics, Faculty of technical and engineering, Azad University of Bonab, Bonab, Iran.  
**Supervisor:** Dr. K. Jamshidi ghaleh
5. High School Diploma, Abouzar High School, Tabriz, Iran.

## Laboratory Skills

1. Alternating Gradient Force Magnetometer (**AGFM**)
2. Vibrating Sample Magnetometer (**VSM**)
3. Physical Vapour Deposition (**Sputtering, E-beam, Evaporation**)
3. Atomic Force Microscopy (**AFM**)
4. Proficiency in Fabrication of Alumina Nanoporous templates by Hard and Mild Anodization Methods.
5. Cyclic Voltammetry (Potentiostat /galvanostat)
6. Proficiency in synthesis of nanowires with different electrodeposition methods such as: Alternating Current (Symmetric AC, Asymmetric AC, Pulse, DC-Pulse), Direct Current (DC)
7. UV and Gas sensing systems
8. Lithography-based fabrication

## Published Papers

1. **Akhtarianfar, Seyed Farshad**, Ali Khayatian, Rouhollah Shakernejad, Mohammad Almasi-Kashi, and Suck Won Hong. "Improved sensitivity of UV sensors in hierarchically structured arrays of network-loaded ZnO nanorods via optimization techniques." *RSC Advances* 7, no. 51 (2017): 32316-32326.
2. **Akhtarianfar, Seyed Farshad**, Ali Khayatian, and Mohammad Almasi-Kashi. "Large scale ZnO nanorod-based UV sensor induced by optimal seed layer." *Ceramics International* 42, no. 12 (2016): 13421-13431.
3. Khayatian, A., S. Safa, R. Azimirad, M. Almasi Kashi, and **S. F. Akhtarianfar**. "The effect of Fe-dopant concentration on ethanol gas sensing properties of Fe doped ZnO/ZnO shell/core nanorods." *Physica E: Low-dimensional Systems and Nanostructures* 84 (2016): 71-78.
4. Khayatian, A., Kashi, M. A., Azimirad, R., Safa, S., & **Akhtarian, S. A.** (2016). Effect of annealing process in tuning of defects in ZnO nanorods and their application in UV photodetectors. *Optik-International Journal for Light and Electron Optics*, 127(11), 4675-4681.
5. Ghanbari, D., Salavati-Niasari, M., Esmaeili-Zare, M., Jamshidi, P., & **Akhtarianfar, F.** (2014). Hydrothermal synthesis of CuS nanostructures and their application on preparation of ABS-based nanocomposite. *Journal of Industrial and Engineering Chemistry*, 20(5), 3709-3713.
6. Nabiyouni, G., Yousofnejad, A., Seraj, M., **Farshad Akhtarianfar, S.**, & Ghanbari, D. (2012). A Simple Method for Synthesis of Strontium Ferrite Nanoparticles and their Polymeric Nanocomposites. *Journal of NanoStructures*, 2(4), 527-532.
7. Fesharaki, M. J., Nabiyouni, G., Shahdoost, B., & **Akhtarianfar, S. F.** Magnetic Investigation of Various NiFe<sub>2-x</sub>Bi<sub>x</sub>O<sub>4</sub> Ferrite Nanostructures Synthesized by Ball Milling Technique. *Journal of Cluster Science*, 1-11.

## Conference Papers

1. International conference on Nanoscience and technology (ICNT 2012), **Paris, France**.
2. 18<sup>th</sup> International Biomedical science and technology (BIOMED 2012), **Tokat, Turkey**.
3. 4<sup>th</sup> International congress on Nanoscience and Nanotechnology (ICNN 2012) **Kashan, Iran**.
4. 1<sup>st</sup> international conference on Nanotechnology, (IBCN 2012), **Minsk, Belarus**.
5. *Annual International Meeting on Low Dimensional Systems, RAIPA, LDS2017, Tabriz, Iran.*