

Curriculum Vitae

Zakiyeh AnjafiMarzijarani



Personal Details

Nationality
Date of Birth
Phone
E-mail
Marital Status

Education

- 2015-2019 **Ph.D. in solid state Physics**
University of Malayer, Malayer, Iran
Supervisor: Dr. Mahmoud Naseri
- 2011-2013 **Master of Science in solid state Physics, EVALUATION: EXCELLENT**
University of Arak, Arak, Iran
Supervisor: Dr. Maziar Marandi
- 2006-2010 **Bachelor of Science in Solid state Physics**
University of Arak, Arak, Iran

Research interests

- Synthesis , Characterization and Applications Nanostructures
- Photovoltaic properties of the dye sensitized solar cells made of different photoanodes
- Fabrication of dye sensitized solar cells
- Nanocomposites
- Gas sensors and electrochemical sensors

Research experience

2011-2014

- Synthesis of TiO₂ nanocrystals by sol-gel method in n-heptan and their application in photoanode of dye sensitized solar cells
- Fabrication of dye sensitized solar cells
- Synthesis of TiO₂ nanoparticles

Synthesis of LnFeO₃ (Ln= Sm, Nd, La) by thermal treatment method and gas sensing of nanocrystalline perovskite oxides LnFeO₃ for acetone gas.

2015-2019

- Fabrication and study Resistive gas sensors
- Fabrication and study electrochemical sensors

Teaching experiences

2014-2017

physic lab, University of *University of Arak*, Arak, Iran

physic lab, University of Malayer, Malayer, Iran

Fundamentals of physics University of Malayer, Malayer, Iran

Fundamentals of Computer and Programming , University of Malayer, Malayer, Iran

- Synthesis of TiO₂ hollow spheres using titanium tetraisopropoxide: fabrication of high efficiency dye sensitized solar cells with photoanodes of different nanocrystalline TiO₂ sub-layers (2014)
- Hydrothermalsynthesisof TiO₂ nanocrystals in different basic pHs and their applications in dye sensitized solar cells (2015)

Paper submitted for publication in refereed journal(ISI)

- Fabrication of dye sensitized solar cells with improved multi-layer photonodes of hydrothermally grown TiO₂ nanocrystals in different autoclaving pHs. (2017)
- Optical, Magnetic and Gas Sensing Properties of LaFeO₃ Nanoparticles Synthesized by Different Chemical Methods. (2019)
- NdFeO₃ as a new electrocatalytic material for the electrochemical monitoring of dopamine. (2019)
- Acetone sensing behavior of p-SmFeO₃/n-ZnO nanocomposite synthesized by thermal treatment method. (2019)

Conferences

- 20^a Conferenza Associazione Italiana Sembali Microsistemi (2019)
- 2nd European Biosensor Symposium EBS2019

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- 7th International Conference on Nanostructures (2018)
 - 6th International Congress on Nanoscience & Nanotechnology (2017)

Language skills

- **Persian** (speak fluently)
- **English** (good)

Dr. Maziar Marandi

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Dr. Mahmoud GoodarzNaseri

assistant professor of Nanophysics, Malayer University, Malayer, Iran

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Professor Giovanni Neri

Professor & Chair Gas Sensor Lab, Dept. of Engineering, University of Messina

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Academic references

