Curriculum Vitae

Mehdi Ranjbar

Ph.D. Assistant Professor of Nanotechnology (Nano Chemistry)

Personal Information

Surname: Ranjbar
First name: Mehdi
Gender: Male
Marital Status: Married
Date of Birth: 21th September, 1988
Place of Birth: Sirjan, Kerman, Iran
Native Language: Persian
Foreign language: English speaker
Citizenship: Iranian

Corresponding Address

Pharmaceutics Research Center
Faculty of Pharmacy
Kerman University of Medical Sciences
Haft-Bagh Alavi High-Way, Kerman, Iran.
Post Code: 76169-11319
P.O. Box: 76175-493
Phone: +98-34-31325215

Mobile Phone: +989366592379, +989131786557
Fax: +98-34-31325215
E-mail: Mehdi.Ranjbar@kmu.ac.ir or Mehdi.Ranjbar@Outlook.com

Academic Background

Ph.D. In Nanotechnology (Nano Chemistry) (Shahid Bahonar University of Kerman,Kerman, Iran. Sep 2012 to May 2016).

M.Sc. In Nanotechnology (Nano Chemistry) (University of Kashan, Isfahan, Iran. August 2010 to August 2012).

B.Sc. In Pure Chemistry (University of Sistan and Baluchestan, Zahedan, Iran. August 2006 to August 2010).

Thesis

Ph.D. Thesis:

Preparation, Synthesis and Characterization of Metal-Organic Framework Nanostructures for the Removal Gases and Investigation of using Nanostructures to Increase Hydrophobic Properties of Surfaces and Investigation of Photocatalytic Properties of Nickel Oxide

Supervised by Prof. Mohammad Ali Taher

M.Sc. Thesis:

Preparation and Characterization $ZnIn_2S_4$, $ZnAl_2O_4$, $PbSO_4$ Nanostructures via a Chemical Method and $ZnS/ZnAl_2S_4$ Nanocomposite via a Solvothermal Method and and Investigation of Optical Property

Supervised by Prof. Masoud Salavati Niasari

Research Courses

- *Advanced Nanotechnology Identification by Prof. Masoud Salavati Niasari. University of Kashan, Isfahan, Iran. 2010.*
- *Nano Computation by Prof. Masoud Hamedanian. University of Kashan, Isfahan, Iran. 2011.*
- *Nanotechnology and Applications Prof. Mehran Rezaei University of Kashan, Isfahan, Iran. 2011.*

- *Synthesis and Charactrization of Nanomaterial Prof. Alireza Badiei. University of Tehran, Iran. 2012.*
- *Instrumentation in Nanotechnology Prof. Alireza Abbasi. University of Tehran, Iran. 2014.*
- *Synthesis and Charactrization of MOF Structures Prof. Ali Morsali. University of Tarbiatmodarres, Iran. 2015.*
- *Nanotechnology in Analytical Chemistry Prof. Mohammad Ali Taher. Shahid Bahonar University of Kerman, Iran, 2016.*

Honors and Awards

1) First Ranked and Top Graduated Student, (GPA=20 out of 20)
M.Sc. Course. University of Kashan, Isfahan, Iran. August 2012.
2) First Ranked and Top Graduated Student, (GPA=19.75 out of 20)
M.Sc. Course. Shahid Bahonar University of Kerman, Kerman, Iran. May 2016.
3) Member of the National Elite Foundation since 2012.

Research Areas

Preparation, Computation ,Synthesis and Charactrization of nanostructures.
Application of Nanomaterials in Medicine and Pharmacy.
Simulation of Nano Systems.
Nano Computation.

Presentation in Conference

1- Separation of Amoxicillin from Aqueous Media by Using Carbon Nanotubes, **Mehdi.Ranjbar**,,Hadi. Ranjbar, International Congress on Nanoscience & Nanotechnology, Kashan, I.R. Iran (2012) pp:8 - 10

2- Synthesis and Charactrization of $SrCO_3$ Nanostructures with Different Morphologies by Microwave Methode, Proceedings of 5th International Congress on Nanoscience & Nanotechnology, **Mehdi. Ranjbar**, M.Salavati-Niasari, (ICNN2014) 22-24 October 2014, Tehran, Iran.

3- Novel and facile route to the synthesis Bismuth Sulfide (Bi_2S_3) Nanostructures by

Ultrasonic Method, Proceedings of 5th International Congress on Nanoscience & Nanotechnology, **Mehdi. Ranjbar,** M.Salavati-Niasari, (ICNN2014) 22-24 October 2014, Tehran, Iran.

4- Optimazation Route Sonochemical-Microwave Assisted for Synthesis Cubic-Like Ag Nanostructures, 17th Iranian Chemistry Congress, Kerman-Rafsanjan, **Mehdi.Ranjbar,** M.Salavati-Niasari, 10-13 Septamber.

5- Preparation and Characterization of ZnIn2S4 Nanoparticle by Microwave Method **Mehdi.Ranjbar**, M.Salavati-Niasari, International conference on modern applications of Nanotechnalogy in Turkey –Istanbol on Oct, 2012.

6- Novel Solvent-Less Synthesis and Characterization of NiO Nanoparticles, Conference on Nano Science and Technology to be held in Kuala Lumpur, **Mehdi.Ranjbar**, Mohammad Ali Taher Malaysia on August, 2014.

Publications

1- Solvothermal Synthesis and Characterization of Hollow Sphere-Like $ZnS/ZnAl_2S_4$ Nanocomposites,**Mehdi Ranjbar**, Masoud Salavati-Niasari , S. Mostafa Hosseinpour-Mashkani , K. Venkateswara-Rao, 'Journal of Inorganic and Organometallic Polymers and Material, 26 (2012) pp: 2064-2068.

2 - Microwave Synthesis and Characterization of Spinel-type Zinc Aluminate Nanoparticles, **Mehdi Ranjbar**, Masoud Salavati-Niasari, S. Mostafa Hosseinpour-Mashkani, 'Journal of Inorganic and Organometallic Polymers and Material, 26 (2012) pp: 1093-1100.

3-Self-assembly of cubic-like nanostructures to form star-like lead sulfatemicrostructures, M. Salavati-Niasari, **M. Ranjbar**, F. Mohandes, 'Micro And Nano Letter, 176 (2012) pp:185–192.

4- Synthesis and characterization of $ZnIn_2S_4$ nanoparticles via facile microwave approach, **Mehdi Ranjbar**, Masoud Salavati-Niasari, Mohammad Sabet, 'Journal of Inorganic and Organometallic Polymers and Material, 23 (2012) pp:452-457.

5- Synthesis and characterization of $MgAl_2O_4$ nanoparticles via facile microwave approach, **Mehdi Ranjbar**, Masoud Salavati-Niasari, 'Journal of Cluster Science, 6 (2013) pp:543-549.

6- A facile route to the synthesis of $AgInS_2$ nanostructures, **Mehdi Ranjbar**, Mohammad Ali Taher, Mohammad Sadeghinia, 'Bull. Mater. Sci., (2013) pp:767–772.

7- Sonochemical approach for synthesis and characterization of PbTe nanostructure, Morteza Vatanparast, **Mehdi Ranjbar** , Majid Ramezani, 'Journal of Superlattices and Microstructures, 65 (2014) pp:365–374.

8- Preparation of Magnetic Molecularly Imprinted Nanoparticles for Selective Separation and Determination of Prednisolone Drug, Mohammad Ali Karimi, **Mehdi Ranjbar**, Zohre Behzadi, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, 47 (2015) pp:308-312.

9- Solvent-free synthesis of mercury oxide nanoparticles by a simple thermal decomposition method, Alireza Mohadesi, **Mehdi Ranjbar** , S.M. Hosseinpour-Mashkani, 'Journal of Superlattices and Microstructures, 66 (2014) pp:48–53.

10- Synthesis and characterization of In_2S_3 nanostructures via ultrasonic method in the presence of thioglycolic acid, Hamideh Asadollahzadeh, **Mehdi Ranjbar** , Mohammad Ali Taher, 'Journal of Industrial and Engineering Chemistry, 20 (2014) pp:4321–4326.

11- Solvent-free synthesis of ZnO nanoparticles by a simple thermal decomposition method, **Mehdi Ranjbar**, Mohammad Ali Taher, Abbas Sam, Journal of Cluster Science 25 (2014) p:1657–1664.

12- Mg-MOF-74 nanostructures: facile synthesis and characterization with aid of 2,6- pyridinedicarboxylic acid ammonium, **Mehdi Ranjbar**, Mohammad Ali Taher, Abbas Sam, J Mater Sci: Mater Electron, 27 (2015) pp:1449–1456.

13- Facile hydrothermal synthesis of manganese-metal organic frameworknanostructures in the presence of various organic ligands for SO_2 and CO2 gas adsorption, **Mehdi Ranjbar**, Mohammad Ali Taher**,** Abbas Sam J Porous Mater, 2 (2016) pp: 375–380.

14- NiO nanostructures: novel solvent-less solid-state synthesis, characterization and MB photocatalytic degradation, **Mehdi Ranjbar**, Mohammad Ali Taher**,** Abbas Sam, J Mater Sci: Mater Electron, 26 (2015) pp:8029–8034.

15- Preparation, Characterization and Electrochemical Application of $ZnS/ZnAl_2S_4$ Nanocomposite for Voltammetric Determination of Methionine and Tryptophan Using Modified Carbon Paste Electrode, Somayeh Tajik, Mohammad Ali Taher, Hadi Beitollahi, Rahman Hosseinzadeh, **Mehdi Ranjbar** , Electroanalisis, 28 (2016) pp: 656–662.

16- Synthesis and characterization of TiO_2 nanoparticles by microwave method and investigation its photovoltaic property, Alireza Mohadesi, **Mehdi Ranjbar**. J Mater Sci: Mater Electron, 27 (2016) pp:862–866.

17- Facile Single-Step Synthesis of SiO_2-Coated ZnO Nanorod as Hydrophobic Layer by Hydrothermal Method, **Mehdi Ranjbar**, Mohammad Ali Taher**,** Abbas Sam, J Clust Sci. 27 (2016) pp:105–114.

18- $BaTiO_3/Ba_4Ti_{13}O_30$ nanocomposite: synthesis, characterization, and its photovoltaic application via two-step sol–gel method, Alireza Mohadesi, **Mehdi Ranjbar**. J Mater Sci: Mater Electron. 26 (2015) pp:9996-10001.

19- Using microwave heating for synthesis of $SrCO_3$ nanostructures with different morphologies, Hasan Jahangiri**, Mehdi Ranjbar**, Mohammad Ali Taher, Hanif kazerooni, Journal of Industrial and Engineering Chemistry 21 (2015) pp:1132–1136.

20- Hydrothermal Synthesis and Characterization of $CaCo_3$ Nanostructure, Mohammad Ali Karimi, and **Mehdi Ranjbar**, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, 46 (2014) pp:635–637.

21- Preparation of Magnetic Molecularly Imprinted Polymer Nanoparticles for Selective Adsorption and Separation of b-Estradiol, Mohammad Ali Karimi1, **Mehdi Ranjbar**, Masoomeh Akbarpoor, J Clust Sci. 27 (2016) 1067–1080.

22- Synthesis and characterization photoluminescence properties of Au/GrO nanocomposites by microwave method, Kheirollah Mohammadi, **Mehdi Ranjbar**, Hossein Targholizadeh, J Mater Sci: Mater Electron, 27 (2016) pp 7829–7833.

23- Synthesis and characterization of gold nanoparticles with the aid of green reducing agent through the free surfactant microwave method, Alireza Mohadesi, **Mehdi Ranjbar**, Ashraf Salmanipour, 27 (2016) pp: 9073–9077.

24- A Simple Thermal Decomposition Method for Synthesis of ZrO2/GrO Nanolayer, **Mehdi Ranjbar,** Mohammad Ali Taher, J Clust Sci, 27 (2016) pp:1553–1559.

25- Abbas Pardakhty, **Mehdi Ranjbar**, Effects of ultrasound on properties of nimetal organic framework nanostructures, Nanomed. J., 3(4):248-252, Autumn 2016

26- Preparation of Ni-metal organic framework-74 nanospheres by hydrothermal method for SO2 gas adsorption, **Mehdi Ranjbar**, Mohammad Ali Taher, J Porous Mater. 23 (2016) pp:1249–1254.

27-Effects of ultrasound on properties of ni-metal organic framework nanostructures, Abbas Pardakhty, **Mehdi Ranjbar,** Nanomed. J. 3 (2016) pp:248-252

28- A rapid microwave route for the synthesis of ZnS nanoparticles, Masoud Salavati-Niasari, **Mehdi Ranjbar** , Davood Ghanbari, JNS. 1 (2012) pp:231-235.

Book publishing

Title: Spectroscopy and Optical Properties of Nanoscale Materials

Writers: **Mehdi Ranjbar,** Masoud Salavati-Niasari, Mohammad Ali Taher

Shahid Bahonar University Press, Kerman 2014