Marzie Salandari Rabori

Medical school, Rafsanjan University of Medical Sciences, Rafsanjan,

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98-34-31315000

Graduation Date: 2019

LinkedIn

Research Areas:

- Nanoparticles Synthesis
- Drug Delivery
- Green Chemistry to Extract Plant Drugs
- Chemistry in Biology

1. Education

PhD **– physics Chemistry** **2014 – 2019**

- **Yazd University, Yazd, Iran**
- **Thesis Title**: "Molecular dynamic simulation of electron transfer in gold nanoparticles"
- **Top-Rank Student**

M.Sc. **- physics Chemistry** **2009 – 2011**

- **Shahid Bahonar University of Kerman, Kerman, Iran**
- **Thesis Title**: "Anew method of estimating Lennard-Jones (LJ) pair potential parameters based on nanoparticle interactions".

BOOKS:

- ***Valency and Bonding (A natural bond orbital donor-acceptor perspective), translation***
- ***Chemical solvents in medicine and pharmacy, conflation***
- ***Environment chemistry laboratory instruction, conflation***

1. Publications

- ✓ A. Taheri, h. Ahmadinia, M. Kafi, **M. Salandari-Rabori** , et al. "The level of blood lead painter workers Rafsanjan city and its correlation with risk factors for cardiovascular disease in 2019", Occupational Medicine Quarterly Journal, 12 (2) , p: 8-16, **2020**.
- ✓ **M. Salandari-Rabori** and H. Sabzian, "Molecular dynamic simulation of electron in gold nanoparticles", Acta Physica Polonica A, (**2020**) 137 (6), p. 1175-1181. DOI:10.12693/AphyspollA.137.1175.
- ✓ Investigation of blood lead levels in painters in Rafsanjan city and its correlation with the prevalence of cardiovascular disease risk factors in 2018, MR AliReza Taheri-Fard, Hassan Ahmadinia, Mehdi Kafi, **Marzie Salandari** ..., Occupational Medicine Quarterly Journal 12 (2), 8-16, **2020**.
- ✓ **M. Salandari-Rabori**, M. Nouroozi, M. Hajizade, "Facile, low-cost and rapid photosynthesis of stable and eco-friendly gold nanoparticles using green walnut shell and study of their anticancer potential", World Cancer Research Journal **2021**, 8:e2037. DOI:10.32113/wcrj-20217-2037).
- ✓ The impact of gold nanoparticles on the expression of several epigenetic genes in the human renal cell carcinoma A498 cells, M Salandari-R, Mojgan Norouzi-Karimabad, 10th internatinal Congress of Nanoscience and Nanotechnology, **2024**.
- ✓ **M. Salandari-Rabori**, M. Nouroozi, O. Azizian, "Expression of some genes involved in epigenetic in breast cancer cell line (MCF7): The effect of gold nanoparticles" (submitted) **2025**.
- ✓ **M. Salandari-Rabori**, M. Rezaeian, H Ahmadinia, et al. "Surveying the serum scale of blood mineral (Fe, Mg) and vitamins (D, vitamin B12) on attempted suicide", Journal of Public Health 54 (6), 1282, **2025**.
- ✓ **M. Salandari-Rabori**, and M. Rezaeian, "Utilization of walnut leaves to CuO nanoparticles synthesis for Arsenic removal of water" (submitted) **2025**.
- ✓ Human health risk assessment of toxic metals in Nass smokeless tobacco in Iran, M Rezaeian, H Ahmadinia, **M Salandari-Rabori**, A Dini, A Esmaeili, H Mohammadi, , Scientific Reports 15 (1), 9525, **2025**.
- ✓ Removal of bacterial contaminants in laboratory conditions using glass containers impregnated with Ag nanoparticles, **M Salandari-Rabori**, E Rezazadeh, AHF Merj, M Noroozi-Karimabad, Y Nazari, J. Nanotechnology, **2025.**
- ✓ Utilizing Nanotechnology to Diagnose and treat central Vervous System Disorders, **M Salandari-Rabori,** Erfan Shahabinejad; Amirreza Shakoeizadeh; Mojgan Noroozi Karimabad; Fatemeh Asadi; Mahdi Heydari, Neurological Sciences, **2025**.

Oral Presentations:

- ***2009, Iranian Corrosion Association Conference***, Kerman-Iran, - presentation title: "The modeling of inhibitors behavior on Corrosion using QSAR method, Iranian Corrosion Association,"
- ***2010, Nano Conference***, Tehran-Iran – presentation title "A new method of estimating LJ pair potential parameters based on nanoparticle interactions*"*.
- ***2024 International Congress in Nanotechnology,*** Rafsanjan, presentation title "The Gold Nono particles in removing the Arsenic from drinking water".

2. Work & Research Experience

Research Project (Completed and/in Progress):

- Synthesis of nano liposome systems for loading the different compounds in drug delivery.
- Antibacterial and wound-healing properties of extracted CuO and Au nanoparticles from plant resources.
- Ag nanoparticles synthesis to remove of bacterial and viral infections growth in vivo and in vitro studies.
- Study of Ethanodic extract of almond on cognitive function and some index of oxidative stress, apoptosis and inflammation in a rat model of Alzheimer's disease.
- The nano-liposomes containing Levodopa in Parkinson treatment in induced animal model.
- The green synthesis of nanoparticles for medical, biochemical, and chemical applications.

5. Awards:

- ***Nano Technology prize of the IRAN president, 1389.***
- ***Nano Technology prize of the IRAN president for synthesis of metal nanoparticles, 1393.***

6. Skills:

Languages:

- ***English: Fluent***
- ***French Proficiency: Elementary***

Software:

- ***Modeling and Design: LAMMPS***
- ***Applications: SPSS***