Marzie Salandari Rabori

Medical school, Rafsanjan University of Medical Sciences, Rafsanjan, Kerman, Iran

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98-34-31315000

Graduation Date: 2019

LinkedIn

Research Areas:

➢ Nanoparticles Synthesis
➢ Nano-liposomes Synthesis
➢ Drug Delivery
➢ Green Chemistry to Extract Plant Drugs
➢ Physics Chemistry
➢ Solar Cells
➢ 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"

B.Sc. – Applied Chemistry   2005 – 2009

- **University of Sistan and Baluchistan, Zahedan, Iran**
- **2ⁿᵈ-Rank Student**

2. Publications 📚

- ✓ **M. Salandari-Rabori**, A. Nasehzade, A new method of estimating LJ pair potential parameters based in nanoparticle interaction, 11ᵗʰ Iranian Physical Chemistry Seminar, University of Ardabil, **2008**.
- ✓ 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.
- ✓ **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).
- ✓ **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) **2023**.
- ✓ **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" (submitted) **2023**
- ✓ **M. Salandari-Rabori**, and M. Rezaeian, "Utilization of walnut leaves to CuO nanoparticles synthesis for Arsenic removal of water" (submitted) **2023**.

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".

3. Work & Research Experience:

- ➤ 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.
- ➤ Studying total phenolic content in different parts of Cynancum acutum extracted by aqueous and hydro

4. Books:

➢ *Valency and Bonding (A natural bond orbital donor-acceptor perspective), translation*

➢ *Environment chemistry laboratory instruction, conflation*

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: Elemantary.*

Software:

➢ *Modeling and Design: LAMMPS*

➢ *Applications: SPSS*