Curriculum Vitae

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Assistant Professor of Nanotechnology

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Education:

- Ph.D. in Analytical Chemistry, (Shahid Bahonar University of Kerman, Kerman, Iran).
- Ph.D. in Nanotechnology, (Kerman University of Medical Sciences, Kerman, Iran).
- M.Sc. in Analytical Chemistry (Shahid Bahonar University of Kerman, Kerman, Iran).
- B.Sc. in Pure Chemistry (Shahid Bahonar University of Kerman, Kerman, Iran).

Research Areas

- Green Chemistry
- Nanotechnology
- Sensors and Biosensors
- Separation (Solid Phase Micro Extraction)
- Computational studies

Publications

1. Zinatloo-Ajabshir S, Mahmoudi-Moghaddam H, Amiri M, Javar HA. A green route for the synthesis of sponge-like Pr6O11 nanoparticles and their application for the development of chlorambucil sensor. *Measurement* **2024**, *235*, 114924.

2. Zinatloo-Ajabshir S, Mahmoudi-Moghaddam H, Amiri M, Javar HA. Eco-friendly synthesis of cluster-like Dy2Ce2O7 nanoparticles using orange juice and their application in electrochemical determination of isoniazid. *Journal of Molecular Liquids* **2024**, *404*, 124975.

3. Zinatloo-Ajabshir S, Mahmoudi-Moghaddam H, Amiri M, Akbari Javar H. A green and simple procedure to synthesize dysprosium cerate plate-like nanostructures and their

application in the electrochemical sensing of mesalazine. *Journal of Materials Science: Materials in Electronics* **2024**, *35*, 500.

4. Hamzeh S, Mahmoudi-Moghaddam H, Zinatloo-Ajabshir S, Amiri M, Azari A. Simple Fabrication of Mesoporous Praseodymium Cerate via an Eco-Friendly Route for Development of Carbendazim Electrochemical Sensor *Journal of The Electrochemical Society* **2024**, 171.
5. Hamzeh, S.; Mahmoudi-Moghaddam, H.; Zinatloo-Ajabshir, S.; Amiri, M.; Nasab, S.A.R. Eco-friendly synthesis of mesoporous praseodymium oxide nanoparticles for highly efficient electrochemical sensing of carmoisine in food samples. *Food Chemistry* **2024**, *433*, 137363.

6. Zinatloo-Ajabshir, S.; Mahmoudi-Moghaddam, H.; Amiri, M.; Javar, H.A. A facile green fabrication of sponge-like Pr2Ce2O7 nanostructure using sucrose for electrochemical quantification of anti-Parkinson drug pramipexole. *Microchemical Journal* **2023**, 109480.

7. Nozaria, M.; Malakootiana, M.; Fardc, N.J.H.; Mahmoudi-Moghaddama, H. Degradation of dibutyl phthalate from synthetic and real wastewater using ultrasound/hydrogen peroxide system.

8. Nozari, M.; Malakootian, M.; Fard, N.J.H.; Mahmoudi-Moghaddam, H. Synthesis of Fe3O4@ PAC as a magnetic nano-composite for adsorption of dibutyl phthalate from the aqueous medium: Modeling, analysis and optimization using the response surface methodology. *Surfaces and Interfaces* **2022**, *31*, 101981.

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10. Malakootian, M.; Hamzeh, S.; Mahmoudi-Moghaddam, H. An efficient electrochemical sensor for determination of sulfite in water and soft drinks based on Ce3+-doped CuO nanocomposite. *Journal of Food Composition and Analysis* **2022**, *113*, 104716.

11. Mahmoudi-Moghaddam, H.; Garkani-Nejad, Z. Determination of Anti-Parkinson Drug Pramipexole Using a Label-free Biosensor and Evaluation of its Interaction with ds-DNA. *Electroanalysis* **2022**, *34*, 787-797.

12. Mahmoudi-Moghaddam, H.; Javar, H.A.; Garkani-Nejad, Z. Fabrication of platinum-doped NiCo2O4 nanograss modified electrode for determination of carbendazim. *Food Chemistry* **2022**, *383*, 132398.

13. Mahmoudi-Moghaddam, H.; Garkani-Nejad, Z. A sensitive DNA biosensor for determination of mesalazine using PPy/Sponge-like Carbon/La3+-doped CuO nanocomposite. *Journal of Materials Science: Materials in Electronics* **2022**, *33*, 7487-7500.

14. Mahmoudi-Moghaddam, H.; Garkani-Nejad, Z. A new electrochemical DNA biosensor for determination of anti-cancer drug chlorambucil based on a polypyrrole/flower-like platinum/NiCo 2 O 4/pencil graphite electrode. *RSC advances* **2022**, *12*, 5001-5011.

15. Mahmoudi-Moghaddam, H.; Garkani-Nejad, Z. Development of the electrochemical biosensor for determination of antibiotic drug isoniazid using ds-DNA/Carbon/La3+/CuO/CPE. *Measurement* **2022**, *189*, 110580.

16. Mahmoudi-Moghaddam, H.; Amiri, M.; Javar, H.A.; Yousif, Q.A.; Salavati-Niasari, M. A facile green synthesis of a perovskite-type nanocomposite using Crataegus and walnut leaf for electrochemical determination of morphine. *Analytica chimica acta* **2022**, *1203*, 339691.

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19. Garkani-Nejad, Z.; Javar, H.A.; Mahmoudi-Moghaddam, H. An efficient sensor for simultaneous determination of Hg (II) and As (III) using a carbon paste electrode modified with needle-shaped Pt-doped NiCo2O4 nanograss. *Sensors and Actuators B: Chemical* **2022**, *358*, 131445.

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as a label-free electrochemical biosensor. *International Journal of Electrochemical Science* **2017**, *12*, 9958-9971.

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