

## Curriculum Vitae



**Elham Arkan**

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### **Objective:**

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- ❖ Head of Nano Drug Delivery Research Center, Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran
- ❖ Head of International Affairs, Kermanshah University of Medical Sciences

### **Education:**

**BSc.:** Department of chemistry, Faculty of Science, Razi University, Kermanshah, IRAN (2001).

**MSc.:** Department of chemistry, Faculty of Science, Razi University, Kermanshah, IRAN (2007).

**Ph.D.:** Department of Medical Nanotechnology, School of Advanced Medical Technologies,  
Tehran University of Medical Sciences, Tehran, Iran (2013).

## List of Publications:

1. Gelatin-sodium alginate hydrogel infused with *Onosma dichroanthum* Boiss. root extract: Preparation, characterization, and application in wound dressing. H Hossainpour, S Zare, H Alvandi, R Abiri, F Aghaz, E Arkan, A Alvandi. *Biochemistry and Biophysics Reports* 44, 102236, 2025
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3. Development and Characterization of Indole- 3-Butyric Acid-Functionalized Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> Nanoparticles for Improved Plant Root Development. M Ghorbani, S Ghorbani, D Kahrizi, E Arkan. *BioNanoScience* 15 (3), 32. 2025
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9. Preparation and characterization of gelatin/sodium alginate with thymus *Kotschyianus* hydrogel for wound healing, In Vitro study. H Hossainpour, H Alvandi, R Abiri, F Aghaz, A Alvandi, E Arkan, *Nanomedicine Journal* 12 (3), 2025
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11. A novel bilayer hydrogel/fibrous wound dressing with *Falcaria vulgaris* extract and green synthesized ZnO nanoparticles for enhanced wound healing T Moshfeghi, N Najmoddin, E Arkan, L Hosseinzadeh. *J. Sci. Adv. Mater. Dev* 10, 100896, 2025
12. Facilitating DNzyme transport across the blood-brain barrier with nanoliposome technology MJ Hoseinifar, F Aghaz, Z Asadi, P Asadi, SE Nedaei, E Arkan, ... *Scientific Reports* 15 (1), 18914 2025
13. Enhancing Bioavailability and Stability of Plant Secondary Metabolites: Formulation and Characterization of Nanophytosomes Encapsulating Red Bryony and Horned Poppy Extracts A Olfati, N Karimi, E Arkan, M Zhaleh, MR Mozafari. *Journal of Functional Biomaterials* 16 (6), 194 2025
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