

Curriculum Vitae



Elham Arkan

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Objective:

- ❖ Assistance professor of Nanomedicine
- ❖ Head of Nano Drug Delivery Research Center, Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran

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. Fahimeh Jalali*, **Elham Arkan**, Gholamreza Bahrami, Preparation of a gabapentin potentiometric sensor and its application to pharmaceutical analysis, *Sensors and Actuators B*, 127 (2007) 304–309.
2. **Elham Arkan**, Mohsen Shahlaei,*Alireza Pourhossein, Kambiz Fakhri, Afshin Fassihi, Validated QSAR analysis of some diaryl substituted pyrazoles as CCR2 inhibitors by various linear and nonlinear multivariate chemometrics methods, *European Journal of Medicinal Chemistry*, 45 (2010) 3394-3406.
3. **Elham Arkan**, Ziba Karimi, Mojtaba shamsipur, Reza Saber*, Electrochemical determination of Celecoxib on a Graphene based Carbon Ion Liquid electrode modified with Gold nanoparticles and its application to pharmaceutical analysis, *Analytical Sciences*, 29 (2013) 855-860.
4. **Elham Arkan**, Reza Saber, Ziba Karimi, Ali Mostafaie, Mojtaba Shamsipur*, multiwall carbon nanotube-ionic Liquid electrode modified immunosensor for low level detection of human serum albumin in biological fluids, *Journal of Pharmaceutical and Biomedical analysis* 92 (2014) 74-81.
5. **Elham Arkan**, Reza Saber, Ziba Karimi, Mohhamad bagher majnooni and Mojtaba Shamsipur*, a novel electrochemical sensor based on silver nanoparticles modified carbon ionic liquid electrode for selective and sensitive determination of Levetiracetam in pharmaceutical tablets and blood serum samples, *Analytical Methods* 6 (2014) 2197-2204.
6. Mohsen Shahlaei*, Afshin Fasihi, Lotfollah Saghaie, **Elham Arkan**, Armin madadkar-sobhani, Alireza pourhossein, computational evaluation of some indenopyrazole derivatives as anticancer compounds: application of QSAR and docking methodologies.

7. Mohsen Shahlaei*, Afshin Fasihi, Lotfollah Saghaie, **Elham Arkan**, Armin madadkar-sobhani, QSAR study of some CCR5 antagonists as Anti-HIV agents using radial basis function neural network and general regression neural network on the basis of principle components.
8. Mohsen Shahlaei*, Afshin Fasihi, Alireza Pourhossein, **Elham Arkan**, Statistically validated QSAR study of some antagonists of the human CCR5 receptor using least square support vector machine based on the genetic algorithm and factor analysis, *Medical Chemistry Research*, (2012).
9. **Elham Arkan**, Ziba Karimi, Mojtaba Shamsipur, Reza Saber, An Electrochemical Sensor for Determination of Amlodipine Besylate Based on Graphene–Chitosan nanoComposite Film Modified Glassy Carbon Electrode and Application in biological and pharmaceutical sample, *3* (2014) 99-107.
10. **Elham Arkan**, Reza Saber, Ziba Karimi, Mojtaba Shamsipur, A novel antibody–antigen based impedimetric immunosensor for low level detection of HER2 in serum samples of breast cancer patients via modification of a gold nanoparticles decorated multiwall carbon nanotube-ionic liquid electrode, *Analytica Chimica Acta*, 874 (2015) 66–74.
11. Mahsa Azami, **Elham Arkan***, Applications of Metallic nanostructures in electrochemical sensors, *Journal of Reports in Pharmaceutical Sciences*, 4(1), (2015) 111-124.
12. **Elham Arkan**, Reza Saber, Ziba Karimi, Ali Mostafaie, Mojtaba Shamsipur, Multiwall carbon nanotube-ionic liquid electrode modified with gold nanoparticles as a base for preparation of a novel impedimetric immunosensor for low level detection of human serum albumin in biological fluids, *Journal of Pharmaceutical and Biomedical Analysis* 92 (2014) 74– 81.

13. Ali Barati, Mojtaba Shamsipur, **Elham Arkan**, Leila Hosseinzadeh, Hamid Abdollahi, Synthesis of biocompatible and highly photoluminescent nitrogen doped carbon dots from lime: Analytical applications and optimization using response surface methodology, *Materials Science and Engineering C* 47(2015) 325-332.
14. Hosseinzadeh Simzar, Soleimani Masoud, Vashegani Farahani Ebrahim, Ghanbari Hossein, **Arkan Elham**, Rezayat Sayed Mahdi, Detailed mechanism of aniline nucleation into more conductive nanofibers, *Synthetic Metals*, 209 (2015) 91-98.
15. **Elham Arkan**, Giti Paimard, Khalil Moradi, a novel electrochemical sensor based on electrospun TiO₂ nanoparticles/carbon nanofibers for determination of Idarubicin in biological samples, *Journal of Electroanalytical Chemistry*, 801(2017) 480-487.
16. Soroush Aziz, Mohammad Sabzi, Ali Fattahi, **Elham Arkan**, 140 (2017) 140.
17. Leila Behbood, Poursan Moradipour, Fayegh Moradi, **Elham Arkan***, Mucoadhesive Electrospun Nanofibers of Chitosan/Gelatin Containing Vancomycin as a Delivery System, *Journal of Reports in Pharmaceutical Sciences*, 6(2017)150-160.
18. **Elham Arkan**, Giti Paimard, Khalil Moradi, A novel electrochemical sensor based on electrospun TiO₂ nanoparticles/carbon nanofibers for determination of Idarubicin in biological samples, 801(2017)0480-487.
19. Fatemeh Kalhori, **Elham Arkan***, Farzad Dabirian, Gisya Abdi, Poursan Moradipour, Controlled Preparation and Characterization of Nigella Sativa Electrospun Pad for Controlled Release, (2018).
20. Fatemeh Akbarzadeh, Karim Khoshgard, Leila Hosseinzadeh, **Elham Arkan**, Davood Rezazadeh, Investigating the Cytotoxicity of Folate-Conjugated Bismuth Oxide Nanoparticles on KB and A549 Cell Lines, 8(2018).

21. **Elham Arkan**, Ali Barati, Mohsen Rahmanpanah, Leila Hosseinzadeh, Samaneh Moradi, Marziyeh Hajialyani, Green Synthesis of Carbon Dots Derived from Walnut Oil and an Investigation of Their Cytotoxic and Apoptogenic Activities toward Cancer Cells, 8(2018) 149.
22. A Azandaryani Hemati, Ali Barati, Mohsen Shahlaei, Mojtaba Shamsipur, Sajad Moradi, **Elham Arkan***, 64 (2018)1-7.
23. Meysam Safari, Mohsen Shalaeai, Yadollah Yamini, Mehrzad Shakorian, **Elham Arkan**, Magnetic framework composite as sorbent for magnetic solid phase extraction coupled with high performance liquid chromatography for simultaneous extraction and determination of tricyclic antidepressants, 1034 (2018) 204-213.
24. Soroush Aziz, Leila Hosseinzadeh, **Elham Arkan***, Abbas Hemati Azandaryani, Preparation of electrospun nanofibers based on wheat gluten containing azathioprine for biomedical application, (2018) 1-8.
25. Leila Behbood, Soroush Karimi, Esmail Mirzaei, Ghobad Mohammadi, Mahsa Azami, **Elham Arkan***, Mucoadhesive Chitosan Electrospun Nanofibers Containing Tetracycline and Triamcinolone as a Drug Delivery System, 19 (2018) 1454-1462.
26. Abbas Hemati Azandaryani, Katayoun Derakhshandeh, **Elham Arkan***, Electrospun nanobandage for hydrocortisone topical delivery as an antipsoriasis candidate, 67 (2018) 677-685.
27. Mojtaba Shamsipur, Mohammad Bagher Gholivand, Hosna Ehzari, Afshin Pashabadi, **Elham Arkan**, Kamran Mansouri, Single frequency impedance strategy employed in rapid detection of leukemia cancer cells using an electrospun PES-nanofiber reinforced ternary composite-based cytosensor, 283 (2018) 1498-1506.

28. Fatemeh Akbarzadeh, Karim Khoshgard, **Elham Arkan**, Leila Hosseinzadeh, Abbas Hemati Azandaryani, Evaluating the photodynamic therapy efficacy using 5-aminolevulinic acid and folic acid-conjugated bismuth oxide nanoparticles on human nasopharyngeal carcinoma cell line, (2018) 1-10.