

Curriculum Vitae



Prof. Dr. Saeid Ahmadzadeh

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Personal Information

Saeid Ahmadzadeh, Ph.D.

Professor of Analytical Chemistry

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Education:

Ph.D. in Analytical Chemistry, University Putra Malaysia, Kuala Lumpur, Malaysia from December 2007 to June 2011.

M.Sc. in Analytical Chemistry, Islamic Azad University, Mashhad Branch, Iran from October 2005 to September 2007.

B.Sc. in Applied Chemistry, Ferdowsi University of Mashhad, Iran from October 1999 to January 2003.

Research Activities

Ph.D. Dissertation: Polymeric Membrane Sensors for Detection of Cesium (I), Chromium (III) and Titanium (III) Ions Based on Calixarene Ionophores. Supervised by Prof. Dr. Anuar Kassim and Prof. Dr. Lee Yook Heng.

M.Sc. Thesis: Thermodynamic Study of Complex Formation Between benzo-15-Crown-5 with Na⁺ Cation in Binary Non-aqueous Solvent System Using Conductometry Method. Supervised by Prof. Dr. Gholam Hossein Rounaghi.

B.Sc. Project: Electroanalytical Study of Chlorine Alkali Process - Ravand Mashhad P.J.S. Supervised by Prof. Dr. Mohammad Hossein Arbab Zavar.

Areas of Interest

- Nanostructure-based Electrochemical sensors (Potentiometric & Voltammetric Approaches)
- Cell-based Biosensors (Cytosensor)
- Electrochemical Engineering and Technology
- Wastewater treatment (Electrocoagulation, Electro-Fenton, Adsorption & Photo-catalysis)
- Wastewater Treatment Plant Layout (Processes, Design Considerations, Instrumentation, Reuse, Control & Residuals Processing)

Ongoing Projects in Our Laboratory

Bio-Analytical and Environmental Electrochemistry Laboratory

Link: <http://prc.kmu.ac.ir/en/page/27027/Bio-Analytical-and-Environmental-Electrochemistry-Laboratory>

- Fabrication of a electrochemical cytosensor for rapid and sensitive evaluation of the Doxorubicin's Anti-cancer effect on MCF7 cells
- Anodic oxidation process efficiency using modified titanium electrodes for removal of fenitrothionine, chlorothalonil and trifluoroaline pesticides from aqueous solution and biotoxicity evaluation of the effluent.
- Feasibility studies of multi drug-resistant bacteria *Staphylococcus aureus*, *Acinetobacter baumannii*, *Enterococcus faecium* removal from hospital sewage in Kerman city by electro-Fenton, photoelectro-Fenton and UV/H₂O₂ processes.
- Nanostructured electrochemical sensor for determination of catecholamine drugs using CuFe₃O₄ nanoparticle.

- Innovative electrochemical approach for rapid measurement of liposomal delivery system loading efficiency.
- Comprehensive experimental and theoretical investigations on heavy metals trace detection in biological and environmental samples using polymeric membrane sensor.
- Mineralization of pharmaceutical samples from hospital wastewater using electro-Fenton degradation
- Adsorption of antibiotic spices onto modified zeolite: Experimental investigation and modeling.

Laboratory Skills

- Fabrication of bio-analytical, environmental and medical electrochemical sensors.
- Instrumental analysis (AAS, ICP, HPLC, GC, UV-Vis, SEM).
- Synthesis of nanoparticles and nanocomposites for medical and environmental applications.
- Wastewater treatment technologies (electrocoagulation, electro-Fenton, photo-catalysis, and adsorption processes).
- Thermodynamic, kinetics and isotherm studies.

Teaching Experiences

- Analytical Chemistry/ for Pharm. D. & B.Sc.
- Principles of Instrumental Analysis/ for Ph.D., Pharm. D., M.Sc. & B.Sc.
- Analytical Toxicology/ for Ph.D.
- Identify and Measurement of Environmental Toxins/ for M.Sc. & B.Sc.
- Analysis and Evaluation of Air Contaminant/ for M.Sc. & B.Sc.
- Analytical Techniques for Trace Element Analysis/ for M.Sc. & B.Sc.
- Application of Advanced Instrumental Techniques for Analysis of Contaminants/ for M.Sc.
- Chromatography / for M.Sc.
- Chemical and Physical Methods of Separation/ for M.Sc.
- Occupational Toxicology/ for B.Sc.
- General Chemistry/ for B.Sc.
- Industrial electrochemistry/ for B.Sc.
- Environmental Chemistry/ for B.Sc.
- English for Chemistry Student/ for B.Sc.

Publications

- [1] Gohari HS, Mohadesi A, Adeli-Sardou M, Behnam B, **Ahmadzadeh S.**[✉], Rapid assessing of doxorubicin's anti-cancer effect on MCF7 cells using modified cytosensor. *Journal of Molecular Liquids*. **2025**;27:128071.
- [2] Paknia O, Moshafi MH, Ashkar F, Dolatabadi M, **Ahmadzadeh S.**[✉], In situ electrochemical generated metal hydroxides as coagulants for optimization of sulfamethoxazole removal. *Scientific Reports*. **2025**;15(1):12891.
- [3] Zahedi, S., Dolatabadi, M., Zahedi, M.J., Asadipour, A. and **Ahmadzadeh S.**[✉], Integrated hybrid process development based on electrocoagulation and adsorption approaches for the removal of cefixime antibiotic from hospital wastewater. *Applied Water Science*, **2025**;15(11):1-13.
- [4] Shirvani, F., Hashemi, M., Dolatabadi, M., **Ahmadzadeh S.**[✉], Enhanced adsorption of ranitidine onto activated carbon-modified zeolite composite and investigation of the removal mechanism. *Scientific Reports*. **2025**;16:2977.
- [5] Mahmoudi-Moghaddam H, Zinatloo-Ajabshir S, **Ahmadzadeh S**, Azari A. Efficient applications of green synthesized CeO₂/Bi₂O₃ nanocomposite for simultaneous electrochemical determination of Pb (II) and Cd (II) in real samples. *Scientific Reports*. **2025**;15(1):28900.
- [6] Dolatabadi, M., Ahmadi, J., **Ahmadzadeh, S.**, Electrocatalytic Oxidation for Removal of COD from Chlorpyrifos Contaminated Wastewater: Optimization and Performance. *Journal of Environmental Health and Sustainable Development*. **2025**; 10(4).
- [7] Rahmani A, Naidu H, Świergosz T, Rahimi HR, Mousavi Z, Dolatabadi M, **Ahmadzadeh S.**[✉], Process and mechanism modeling of cefotaxime removal from hospital wastewater using pistachio shells based magnetic activated carbon nanoparticles. *Scientific Reports*. **2024**;14(1):1-17.
- [8] Mazloomian M, Ebrahimi AA, Dolatabadi M, **Ahmadzadeh S.**[✉], Removal of p-nitrophenol from industrial wastewater using electrochemical oxidation with Mn-PbO₂

electrode: Analysis by high-performance liquid chromatography technique. *Analytical Methods in Environmental Chemistry Journal*. **2024**;7(4):5-16.

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[10] Liu G, Luo D, Wang L, Wang C, Cao Y, Singh L, Singh L, **Ahmadzadeh S**, He Z, Current status and future perspective in electro-Fenton techniques for wastewater treatment: a bibliometric review. *Applied Nanoscience*. **2023**;13(9):5885-902.

[11] Mohammed SJ, MRidha MJ, Ali QA, Abed KM, **Ahmadzadeh S.**[✉], Reliable treatment approach for levofloxacin and ciprofloxacin removal from aqueous medium: process modelling, kinetic and isotherm studies. *Desalination and Water Treatment*. **2023**;307:50-62.

[12] Dolatabadi M, Ehrampoush MH, Pournamdari M, Ebrahimi AA, Fallahzadeh H, **Ahmadzadeh S.**[✉], Enhanced electrocatalytic elimination of fenitrothion, trifluralin, and chlorothalonil from groundwater and industrial wastewater using modified Cu-PbO₂ electrode. *Journal of Molecular Liquids*. **2023**;379:121706.

[13] Dolatabadi M, **Ahmadzadeh S.**[✉], Catalytic ozonation process using modified activated carbon as a catalyst for the removal of sarafloxacin antibiotic from aqueous solutions. *Analytical Methods in Environmental Chemistry Journal*. **2023**;6(02):31-41.

[14] Yoosefian M, Tajaddini B, **Ahmadzadeh S.**[✉], Zeraati-Moghani M, Pakdin-Parizi Z. Ethanol effects on L-type voltage-gated calcium channel performance. *Journal of Molecular Liquids*. **2023**;378:121634.

[15] Dolatabadi M, Meftahizade H, **Ahmadzadeh S**, Abbasi F, Falakian M, Ghorbanpour M. Efficiency of modified plant guar gum as aid coagulant for removal of diazinon from aqueous solution: optimization by response surface methodology. *Chemical Papers*. **2023**;77(3):1339-49.

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treatment: environmental healthcare and ecological risk assessment. *Journal of Environmental Science and Health, Part B*. **2023**;58(9):594-602.

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- [25] Dolatabadi, M., Akbarpour, R., **Ahmadzadeh, S.**[✉], Catalytic ozonation process using ZnO/Fe₂O₃ nanocomposite for efficient removal of captopril from aqueous solution, *Analytical Methods in Environmental Chemistry Journal*, 5 (2022) 31-39.
- [26] Dolatabadi, M., Hajebrahimi, Z., Malekahmadi, R., **Ahmadzadeh, S.**[✉], Electrochemical Oxidation Approach towards the Treatment of Acetamidiprid Pesticide from Polluted Water, *Journal of Environmental Health and Sustainable Development*, 7 (2022) 1561-1570.
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- [28] Estabragh, M.A.R., Pardakhty, A., **Ahmadzadeh, S.**, Dabiri, S., Afshar, R.M., Abbasi, M.F., Successful Application of Alpha Lipoic Acid Niosomal Formulation in Cerebral Ischemic Reperfusion Injury in Rat Model, *Advanced Pharmaceutical Bulletin*, 12 (2022) 541.
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- [30] Dolatabadi, M., Ghorbanian, A., **Ahmadzadeh, S.**[✉], Degradation of High-Concentration of Perchloroethylene from Aqueous Solution Using Electro-Fenton

Process, *Journal of Environmental Health and Sustainable Development*, 7 (2022) 1676-1683.

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- [38] Dolatabadi, M., Ghorbanian, A., **Ahmadzadeh, S.**[✉], Mg-Al-layered Double Hydroxide as Promising Sustainable Nanoadsorbent for Application in Water/Wastewater Treatment Processes; Diethyl Phthalate Removal, *Journal of Environmental Health and Sustainable Development*, 6 (2021) 1367-1375.
- [39] Dolatabadi, M., Mehrabpour, M., Esfandyari, M., **Ahmadzadeh, S.**[✉], Adsorption of tetracycline antibiotic onto modified zeolite: Experimental investigation and modeling, *MethodsX*, 7 (2020) 100885.
- [40] Avazpour, S., Pardakhty, A., Nabatian, E., **Ahmadzadeh, S.**[✉], Economical Approach for Determination of Kojic Acid by Nanostructured Ionic Liquid-Based Carbon Paste Sensor, *BioNanoScience*, 10 (2020) 502-511.
- [41] Dolatabadi, M., **Ahmadzadeh, S.**[✉], Ghaneian, M.T., Mineralization of mefenamic acid from hospital wastewater using electro-Fenton degradation: Optimization and identification of removal mechanism issues, *Environmental Progress & Sustainable Energy*, 39 (2020) e13380.
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- [43] Badakhshan, S., **Ahmadzadeh, S.**[✉], Mohseni-Bandpei, A., Aghasi, M., Basiri, A., Potentiometric sensor for iron (III) quantitative determination: experimental and computational approaches, *BMC Chemistry*, 13 (2019) 131.
- [44] Dolatabadi, M., **Ahmadzadeh, S.**[✉], A rapid and efficient removal approach for degradation of metformin in pharmaceutical wastewater using electro-Fenton process; optimization by response surface methodology, *Water Science and Technology*, 80 (2019) 685-694.
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[53] **Ahmadzadeh, S.**[✉], Asadipour, A., Yoosefian, M., Dolatabadi, M., Improved electrocoagulation process using chitosan for efficient removal of cefazolin antibiotic from hospital wastewater through sweep flocculation and adsorption: Kinetic and isotherm study, *Desalination and Water Treatment*, 92 (2017) 160-171.

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samples from aqueous solutions based on nanostructure carbon paste electrode as a sensor, *Journal of Molecular Liquids*, 216 (2016) 387-391.

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Congresses & Conferences

[2025- 1] Bahar Ghaedi, Behzad Behnam, Mahboubeh Adeli-Sardou, **Saeid Ahmadzadeh** , Enhanced Electrochemical Cytosensor for Monitoring Cancer Cell Viability in Response to Anticancer drug, *25th Iranian Pharmacy Students' Seminar (IPSS25) Jundishapur University of Medical Sciences, Ahvaz, Iran, 25-28 February 2025.*

[2025- 2] Bahar Ghaedi, Behzad Behnam, Mahboubeh Adeli-Sardou, **Saeid Ahmadzadeh** , Rapid and Sensitive Detection of Doxorubicin Effects on MCF7 Cells via a Carbon Nanotube and Gold Nanoparticle-Modified Electrochemical Cytosensor, *25th Iranian Pharmacy Students' Seminar (IPSS25) Jundishapur University of Medical Sciences, Ahvaz, Iran, 25-28 February 2025.*

[2025- 3] **Saeid Ahmadzadeh** ^a, jafar ahmadi ^b, Maryam Dolatabadi ^c, Removal of diclofenac from hospital wastewater using electro-Fenton process: kinetics and degradation mechanism, *2nd Research and Technology Congress of Medical Science Students in the 7th Region of Iran, Yazd, Iran, 5-6 June 2025.*

[2025- 4] Mahla Mazloomian ^a, Maryam Dolatabadi ^b, Niloufar Borhani Yazdi ^c, **Saeid Ahmadzadeh** ^d, Removal of bisphenol A from industrial wastewater using electrochemical oxidation process Reaction kinetics and insights into the degradation mechanism, *2nd Research and Technology Congress of Medical Science Students in the 7th Region of Iran, Yazd, Iran, 5-6 June 2025.*

[2025- 5] Mahla Mazloomian ^a, Maryam Dolatabadi ^b, **Saeid Ahmadzadeh** ^c, Anodic oxidation process for Aniline Removal from Industrial Wastewater: Mechanism Insights and Efficiency Enhancement, *The 3rd International & 16th National Student Conference on Innovation in Health Sciences, Tehran, Iran, 20-21 May 2025.*

[2025- 6] Mahla Mazloomian ^a, Maryam Dolatabadi ^b, **Saeid Ahmadzadeh** ^c, Photo electro-Fenton based advanced oxidation process for nonylphenol degradation: Mechanism Insight, *The 3rd International & 16th National Student Conference on Innovation in Health Sciences, Tehran, Iran, 20-21 May 2025.*

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[5] Sara Samadi, Alieh Ameri , **Saeid Ahmadzadeh**[✉], Fabrication of modified nanostructured electrochemical sensor based on carbon paste electrodes for the quantitative determination of norepinephrine using voltammetric techniques, *23rd Iranian Pharmacy Students Seminar (IPSS23)*, *Mashhad University of Medical Sciences, Mashhad, Iran, 16-19 November 2021*.

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