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Specialty Records

Bachelor of Science: Chemistry (2000)

Master of Science: Toxicology (2005)

M.S. Thesis: Zeolite Y as a Solid phase extraction

Ph.D.: Toxicology (2012)

Ph.D. Thesis: Cell line Biospectroscopy modeling in Toxicology

Professional Experience

- Development of Chemicals analysis
- Occupational exposure assessment
- Chemicals toxicity evaluation
- Modeling in toxicology
- In vitro and molecular toxicity assessment
- In-silico methods in toxicology

Professional Experience

- Professor of Toxicology in the Department of Occupational Health and Safety in Shahid Beheshti University of medical science
- Guest lecturer of Toxicology in Tarbiat Modarres University.
- Guest lecturer of Toxicology in Islamic Azad University.
- Guest lecturer of Toxicology in HSE Department of Shahid Beheshti University of medical science
- Dean of occupational health and Safety department in Shahid Beheshti University of medical science
- Secretary of the Iranian occupational health association
- Technical manager of Iranian references laboratory in occupational health.
- Technical manager of Shahid Beheshti University of medical science laboratory in occupational health.
- An expert member of a consulting group in the project of occupational health in National gas company.
- An expert member of a consulting group in the project of occupational health in Iranian Falat Gareh.

Papers**By index in the ISI, PubMed & Scopus**

- 1.M. Ghazi-khansari, **R.Zendehdel**, M. Pirali Hamedani. Determination of morphine in the plasma of addicts in using Zeolite Y extraction following high performance liquid chromatography; Clinica Chemica Acta,2006,364:235-238.
2. **R.Zendehdel**, A.Masoudi-Nejad, J.Mohammadzadeh, F.H.Shirazi. Cisplatin Resistant Patterns in Ovarian Cell Line Using FTIR and Principal Component Analysis; Iranian Journal of Pharmaceutical Research,2012,11(1): 235-240.
3. **R.Zendehdel**, A.Masoudi-Nejad ,F.H.Shirazi. Patterns Prediction of Chemotherapy Sensitivity in Cancer Cell lines Using FTIR Spectrum, Neural Network and Principal Components Analysis; Iranian Journal of Pharmaceutical Research,2012,11(2): 1-10.
4. **R.Zendehdel**, Tayefeh-Rahimian, A Kabir. Chronic exposure to Chlorophenol related compounds in production workplace and lung cancer: A meta-analysis. Asian Pacific Journal of Cancer Prevention,2014,15(13): 5149-5153.
5. **R. Zendehdel**. Oxidative damage modeling by biomonitoring of Exposure to Metals for manual metal arc welders; Health scope,2014,3(3):1-4.
6. Mansour R. Azari, Asil Yazdian, **Rezvan Zendehdel**, Hamid Souri, Soheila Khodakarim, Habibalah Peirovi, Davod Panahi, Marzieh Kazempour. Improved Method for Analysis of Airborne Asbestos Fibers Using Phase Contrast Microscopy and FTIR Spectrometry; Tanaffos,2014,13(3), 38-45.
7. **R.Zendehdel**, S.Khodakarim , F.H. Shirazi. Predicting of effective dose as Biomarker for Cytotoxicity using Partial least square-Fourier Transform Infrared spectroscopy (PLS_FTIR). Iranian Journal of Pharmaceutical Research,2015,14(4),1-8.
8. **R. Zendehdel**, Vd Shetab-Boushehri, MR. Azari, V Hosseini, H.Mohammadi. Chemometrics models for assessment of oxidative stress risk in chrome-electroplating workers. Drug and chemical toxicology,2015,38(2), 174–179.

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9. **R.Zendehtdel**, F.H. Shirazi. Discrimination of human cell lines by Infrared spectroscopy and mathematical modeling. *Iranian Journal of Pharmaceutical Research*,2015,14(3),803-810.
 10. Seyed Younes Hosseini, Mansour Rezazadeh Azari, **Rezvan Zendehtdel**, Hamid Sour, Raana Taiefeh Rahimian. Feasibility the Biological Monitoring of Workers Exposed to Benzene and Toluene via Measuring the Parent Compounds in the Exhaled Breath. *Health scope*,2015,4(3),1-5.
 11. Panahi D, Azari M , Akbari M.E, **Zendehtdel R**, Mirzaei HR, Hatami H, Mehrabi Y. Development of a new method for sampling and monitoring oncology staff exposed to cyclophosphamide drug. *Environmenta Monitoring and Assessment*,2016, 188(4),238.
 - 12.**R. Zendehtdel**. Z.Fazli,M. Mazinani Neurotoxicity effect of formaldehyde in occupational exposure and influence of individual susceptibility to some metabolism parameters. *Environmenta Monitoring and Assessment*,2016, 188(4),168-189.
 13. M.Vahhabi Shekarloo1, M. Mazinani, S. Khodakarim, M. Rezazadeh Azari, H.Kheyri, A.A. Mousavi Mehraban, **R.Zendehtdel***. Irritation risk assessment of occupational exposure to formaldehyde from Melamine dinnerware workshops in Tehran. *Iran Occupational Health*, 2016, 13 (2),1-8.
 14. J.Zafari, F,Javani, A Ahmadvand, P Abdolmaleki, M.Soodi, **R.Zendehtdel***. Investigation of gene expressions in differentiated cell derived bone marrow stem cells during bone morphogenetic protein-4 treatments with Fourier transform infrared spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*,2017,173, 695-703.
 15. Abdullah Barkhordari & Mansour R. Azari & **Rezvan Zendehtdel** & Mahmoud Heidari. Analysis of formaldehyde and acrolein in the aqueous samples using a novel needle trap device containing nanoporous silica aerogel sorbent. *Environ Monit Assess*,2017, 189(4), 171-180.
 16. Mansour Azari, Davod Panahi, Mohammad Esmail Akbari, Hamid Reza Mirzaei, Hamid Reza Rezvani, **Rezvan Zendehtdel**, Yadollah Mehrabi, and Majid Bayatian. Environmental Monitoring of Occupational Exposure to Cyclophosphamide Drug in Two Iranian Hospitals. *Iran J Cancer Prev*, 2017, 10(1), 1-5.
 17. **Rezvan Zendehtdel**, Fatemeh Javani Jouni, Behnam Hajipour, Zahra Panjali Homa Kheiri, and Masoom Vahabi1*. DNA Damage in Workers Exposed to Formaldehyde at Concentrations Below Occupational Exposure Limits. *Toxicological & Environmental Chemistry*, 2017, 99(9), 1409-1417.
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54. Zahra Moradpour, Ghasem Hesam, Mehrdad Helmi Kohnehshahri , Farah Bokharaei-Salim , Mostafa Pouyakian, **Rezvan Zendehtdel**. Investigating the Ventilation System of an Intensive Care Unit in the COVID-19 Crisis: A Study in a Hospital of Tehran, Iran, 2021. 20(3). 240-245.
55. Negar Saffarinia, Mostafa Pouyakian, **Rezvan Zendehtdel**, and Reza Ramezani. Presenting a New Method to Evaluate the Severity of the Incompatibility of Dangerous Goods Based on FTOPSIS: A Case Study of the 4.3 Class. *ACS Chemical Health and Safety*, 2021. 28(5). 339-347.
56. **Rezvan Zendehtdel**, Shirin Seyed Ghoreyshi, Fatemeh Rajabi, Zohreh Amini, Majid Mahdian Dehkordi, Hakimeh Nouri Parkestani. The Oxidative Stress of Mercaptan Odorant Due to Occupational Exposure: Adverse Effects on the Cholinergic System. *Iranian journal of Toxicology*, 2022. 16(2). 91-97.
57. **Rezvan Zendehtdel** Mostafa M. Amini, Majid Hajibabaei Mohammad Javad Nasiri, Mohammad Javad Jafari| Masoumeh Karimi Alavijeh. Doping metal-organic framework composites to antibacterial air filter development for quality control of indoor air, *Environmental progress & sustainable energy*, 2022. 41(6). 1-10.
58. Masoomah Vahabi Shekarloo, Zahra Panjali, Younes Mehrifar, Soleiman Ramezanifar, Seyed Husein Naziri, Aysa Ghasemi Koozekonan, Zahra Moradpour & **Rezvan Zendehtdel**. Application of a novel exposure limit approach for co-exposure of chemicals: a field study by in-vitro design. *International Journal of Environmental Health Research*, 2022. 13(12). 1269-1277.
59. Zahra Panjalialia , Parviz Abdolmaleki, Behnam Hajipour-Verdom, Omar Hahad, and **Rezvan Zendehtdel**. Lung cell toxicity of co-exposure to airborne particulate matter and extremely low-frequency magnetic field. *Xenobiotica*, 2022. 52 (4). 370-379.
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65. Masoomeh Vahabi Shekarloo, Siamak Ashrafi Barzideh, **Rezvan Zendehtdel**. Application of The Headspace - Needle Trap Device Based on Molecularly Imprinted Polymer for Co-Extraction of Two Volatile Biomarkers in Urine. *Journal of Health and Safety at Work*, 2023. 13(3). 581-600.
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73. Zahra Moradpour, Ali Khavanin, Parviz Abdolmaleki, Behnam Hajipour-Verdom, Seyed Javad Mola, Mansoureh Hamidi and **Rezvan Zendehtdel**. Cell toxicity assessment in co-treatment to metalworking fluids and vibration: an in vitro study of occupational exposure setting. *International Journal of Environmental Health Research*, 2024. 34(7):1-10.
74. Ali Omid, **Rezvan Zendehtdel**, Shokooh Sadat Khaloo, Akbar Barzegar. Zinc Oxide Nanorod-Magnetized Silica Aerogel as a New Composite in Solid Phase Extraction for Phthalate Esters Detection: Optimization by Response Surface Methodology, 2024. 48: 609–623.
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77. Vafa Feyzi, Ali Alboghobeish, Sayed Vahid Esmaceli, Rezvan **Zendehtdel**, Somayeh Farhang Dehghan. A scoping review on advantages and drawbacks of nanotechnology in the field of occupational health. *Nanotechnology for Environmental Engineering*, 2024. 9: 593-615.
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85. Fatemeh Asadipour, Shokooh Sadat Khaloo, Zahra Ravannakhjavani, Shiva Mohammadjani kumeleh, **Rezvan Zendehtdel**. Chemo-sensor of schiff base characterization for colorimetric detection of inorganic sulfate: An overview method validation for hydrogen sulfide analysis of air samples. *Journal of Photochemistry & Photobiology, A: Chemistry*, 2026, 472:116853-116860.
86. Shiva Mohammadjani Kumeleh, Ali Hashemi, Mostafa Pouyakian, Mohammad Amin Rashidi, Shahab Falahi, **Rezvan Zendehtdel***. Effective Antibacterial Medical Mask Based on the Novel Biosynthesized Copper Nanoparticles (CuNPs). *International Journal of Microbiology*. 2026; 2026:3774572.
87. Fatemeh Baghdadi, **Rezvan Zendehtdel**, Zahra Panjali, Alireza Hajighasemkhan. Prediction of Mineral Oil Concentrations Using Fourier Transform Infrared (FTIR) and Modeling Methods. *Journal of Health and Safety at Work* 2026; 16(1): 99-118.
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