



Hamadan University of Medical
Sciences

Center of Excellence for Occupational Health



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Academic Rank:

Associate Professor

Education and Training:

- ✓ *Ph.D. in Occupational Health, Faculty of Medical Sciences, Tarbiat modares University, Tehran, Iran*
- ✓ *M.Sc. in Toxicology, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran*
- ✓ *B.Sc. in Occupational Health, Faculty of Health, Tehran University of Medical Sciences, Tehran, Iran*

Research Interests:

- ✓ *Nano-toxicology*
- ✓ *Biological Monitoring*
- ✓ *Analytical Toxicology*
- ✓ *Health & Carcinogenic Risk Assessment*

Course Teaching:

- ✓ *Advanced Occupational Toxicology for Ph.D. Students.*
- ✓ *Occupational Toxicology for M.Sc. Students.*
- ✓ *Industrial Toxicology for M.Sc. Students.*
- ✓ *Analytical Instruments for M.Sc. Students.*

- ✓ *Occupational Toxicology for B.Sc. Students.*
- ✓ *Analytical Methods for B.Sc. Students.*

Executive Position

- ✓ *Manager of Research and Development in school of public health Hamadan University of Medical Sciences, Hamadan, Iran, 2006-2008*
- ✓ *Member of Toxicology Committee for Developing National TLVs Center for Environmental and Occupational Health, Ministry of Health and Medical Education, Iran , 2012-To be continued.*

Theses Supervision

23 M.Sc. 3 Ph.D. and 3 Professional Doctorate Theses

Research Projects

22 Research Projects

Books

- 1) A Guide to Toy Safety and Children Health, 2018. [In Persian]*
- 2) Guide for Biological Monitoring in the Workplace, 2016. [In Persian]*
- 3) Guide for Mercury in the Workplace, 2014. [In Persian]*

Papers from 2013

- 1. N Kurd, A Bahrami, A Afkhami, F Ghorbani Shahna, **MJ Assari**, M Farhadian. Hollow Polymer Nanospheres and Fe₃O₄@TFPA-Bd-COF as a Mixture Adsorbent in Microextraction by Packed Sorbent for Extraction of BTEX Biomarkers in Urine. *Anal. Bioanal. Chem. Res.* 2023.*
- 2. N Kurd, A Bahrami, A Afkhami, F Ghorbani Shahna, **MJ Assari**, M Farhadian. Application of Fe₃O₄@TbBd nanobeads in microextraction by packed sorbent (MEPS) for determination of BTEXs biomarkers by HPLC–UV in urine samples. *Journal of Chromatography B.* 2022.*
- 3. N Kurd, A Bahrami, A Afkhami, F Ghorbani Shahna, **MJ Assari**, M Farhadian. Hollow polymer nanospheres (HPSs) as the adsorbent in microextraction by packed sorbent (MEPS) for determining BTEXs chief metabolites in urine samples. *Journal of the Iranian Chemical Society.* 2022.*
- 4. **MJ Assari**, F Ghorbani Shahna, A Pourmohammadi, E Chavoshi, Z Karami. Application of Arc-GIS for Zoning of Occupational Exposure Levels to Respirable Crystalline Silica in Crushing Factories. *Journal of Occupational Hygiene Engineering.* 2021. [In Persian]*

5. A Karami Mosafer, E Taheri, A Bahrami, SM Zolhavarieh, **M J Assari**. Comparing formaldehyde risk assessment in histopathology laboratory staff using three methods based on US EPA approaches in the west of Iran. *International Journal of Occupational Safety and Ergonomics*. 2021.
6. A Poormohammadi, ES Mir Moeini, **MJ Assari**, S Khazaei. Risk assessment of workers exposed to respirable crystalline silica in silica crushing units in Azandarian Industrial Zone, Hamadan, Iran. *Journal of Air Pollution and Health*. 2021.
7. H Nosrati, M Hamzepoor, M Sohrabi, M Saidijam, **MJ Assari**, Nooshin Shabab, ZahraGholami Mahmoudian, Zohreh Alizadeh. The Potential Toxicity of Silver Nanoparticles After Repeated Oral Exposure and Underlying Mechanisms in Kidney of Rat Mode. *BMC Nephrology*. 2021.
8. R Parvari, F Ghorbani-Shahna, A Bahrami, S Azizian, **MJ Assari**, Maryam Farhadian. A novel core-shell structured $\alpha\text{-Fe}_2\text{O}_3/\text{Cu/g-C}_3\text{N}_4$ nanocomposite for continuous photocatalytic removal of air ethylbenzene under visible light irradiation. *Journal of Photochemistry & Photobiology A: Chemistry*. 2020.
9. Y Pourbakhshi, M Farhadian, A Bahrami, L Tajik, F Ghorbani Shanha, **M J Assari**. Application of Artificial Neural Network and Response Surface Methodology in Optimization of Cold Fiber Headspace Solid-Phase Microextraction (CF-HS-SPME) for Analysis of 2, 5-Hexandion in Urine Samples. *Health Scope*. 2020.
10. M Farokhzad, A Ranjbar, N Kheiripour, AR Soltanian, **M J Assari**. Potential in the Diagnosis of Oxidative Stress Biomarkers in Noninvasive Samples of Urine and Saliva and Comparison with Serum of Persons Exposed to Crystalline Silica. *International Archives of Health Sciences*. 2020.
11. F Rostami, **MJ Assari**, M Aliabadi, M Farhadian. Study of the relationship between body heat strain level and tetrachlorethylene concentration in exhaled air among laundry workers. *Iran Occupational Health*. 2020.
12. R Rahimpour, F Gohari-Ensaf, J Poorolajal, **MJ Assari**. Impact of Filter on the Estimation of Quantitative Mixture Risk Caused by Some Chemical Constituents Generated from Popular Cigarette Brands in Iran. *Addict Health*. 2020.
13. R Rahimpour, M Rostami, **M J Assari**, A Mirzaei, M Reza Zare. Evaluation of Blood Lead Levels and Their Effects on Hematological Parameters and Renal Function in Iranian Lead Mine Workers. *Health Scope*. 2020.
14. J Poorolajal, **MJ Assari**, Y Mohammadi, FG Ensaf. Impact of cigarettes' filter length and diameter on cigarette smoke emissions. *Clinical Epidemiology and Global Health*. 2019.
15. M Farokhzad, A Ranjbar, F Ghorbani Shahna, M Farhadian, **MJ Assari**. Blood Oxidative Stress Levels in Workers Exposed to Respirable Crystalline Silica in the West of Iran. *Health Scope*. 2019.

16. E Darvishi, **MJ Assari**, M Farhadian, E Chavoshi, HR Ehsani. Occupational exposure to mercury vapor in a compact fluorescent lamp factory: Evaluation of personal, ambient air, and biological monitoring. *Toxicology and industrial health*. 2019
17. E Taheri, F Mollabahrami, M Farokhzad, F Ghasemi, **MJ Assari**. Risk assessment in academic laboratories in the west of Iran: compare the CHRA and the RSLs methods *International journal of environmental health research*.2019.
18. M Afshari, J Poorolajal, F Rezapur-Shahkolai, **MJ Assari**, Which Factors Influence Farmers' Use of Protective Measures During Pesticides Exposure? *Workplace health & safety*. 2019.
19. F Rostami, M Afshari, M Rostami-Moez, **MJ Assari**, AR Soltanian. Knowledge, attitude, and practice of pesticides use among agricultural workers. *Indian journal of occupational and environmental medicine*. 2019.
20. N Fathi, SM Hoseinipannah, Z Alizadeh, **MJ Assari**, A Moghimbeigi. The effect of silver nanoparticles on the reproductive system of adult male rats: A morphological, histological and DNA integrity study. *Advances in clinical and experimental medicine: official organ Wroclaw*. 2019.
21. P Mohammadi, M Abbasinia, **MJ Assari**, M Oliaei. The toxicology of silica nanoparticles: a review. *Toxicological & Environmental Chemistry*. 2018
22. E Partovi, M Fathi, **MJ Assari**, R Esmaeili, A Pourmohamadi, R Rahimpour. Risk assessment of occupational exposure to BTEX in the National Oil Distribution Company in Iran. *Chronic Diseases Journal*. 2018.
23. M Afshari, J Poorolajal, **MJ Assari**, F Rezapur-Shahkolai. Acute pesticide poisoning and related factors among farmers in rural Western Iran. *Toxicology and industrial health*. 2018.
24. E Darvishi, R Shahidi, M Mahdinia, **MJ Assari**. Applicable risk assessment methods in occupational and environmental exposure to nanoparticles-a narrative review. *Journal of Advances in Environmental Health Research*. 2018.
25. H Deljou, **MJ Assari**, A Bahrami, M Zolhavarieh. Surface contamination with cyclophosphamide and iphosphamide in chemotherapy centers. *Journal of Mazandaran University of Medical Sciences*. 2018. [***In Persian***]
26. 13. **MJ Assari**, O Kalatpour, E Zarei, I Mohammadfam. Consequence modeling of fire on Methane storage tanks in a gas refinery. *Journal of Occupational Hygiene Engineering*. 2018. [***In Persian***]
27. 14. MH Bakhshaei, A Bahrami, A Mirzakhani, H Mahjub, **MJ Assari**, Exposure assessment, biological monitoring, and liver function tests of operating room personnel exposed to halothane in Hamedan hospitals, west of Iran. *Journal of research in health sciences*. 2017.

28. M Shafiee Motlagh, H Aghaei, **MJ Assari**, M Soltani Mohammadi Samar. Design and providing of a software package based on Control Banding method for risk assessment of occupational exposure to nanomaterials. *Iran Occupational Health*. 2017. **[In Persian]**
29. F Ghorbani Shahna, **MJ Assari**, J Farad Mal, A Jafar Zade Kolne Lu. Assessment of Occupational Exposure to Formaldehyde in Hair Dressers Work in Kermanshah and Hamadan Female Beauty Salons. *Iran Occupational Health*. 2017. **[In Persian]**
30. AK Mosafer, **MJ Assari**, A Bahrami, M Zolhavarie. Relationship of Ambient Concentrations with Personal Exposure Level of Formaldehyde in the Pathology Departments of Teaching Hospitals Affiliated to Hamadan University of Medical Sciences. *Journal of Occupational Hygiene Engineering*. 2017. **[In Persian]**
31. F Rostami, **MJ Assari**, M Aliabadi, M Farhadian. The relationship between the concentration of tetrachlorethylene in exhaled air and personal exposure levels in the dry cleaning workers. *Journal of Occupational Hygiene Engineering*. 2017. **[In Persian]**
32. ZG Mahmoudian, M Sohrabi, H Lahoutian, **MJ Assari**, Z Alizadeh. Histological alterations and apoptosis in rat liver following silver nanoparticle intraorally administration. *Entomol Appl Sci*. 2016.
33. Z Pourhamzeh, M, Gholami Mhmodian, Z. Saeidi Jam, **MJ Assari**, Z Alizadeh. The Effect of Silver Nanoparticles on the Biochemical Parameters of Liver Function in Serum, and the Expression of Caspase-3 in the Liver Tissue of Male Rats. *Avicenna Med Biochem*. 2016.
34. **MJ Assari**, A Rezaee, H Rangkooy. Bone char surface modification by nano-gold coating for elemental mercury vapor removal. *Applied Surface Science*. 2015.
35. A Garkaz, F Ghorbani Shahna, **MJ Assari**, J Faradmal. The designing and assessment of a local exhaust ventilation system coupled with hybrid collectors for dust control o an alloy steel company
36. *Iran Occupational Health*. 2015. **[In Persian]**
37. 23. C Saeidi, **MJ Assari**, F Ghorbani-Shahna, Z Khamverdi. Removal of mercury vapor from ambient air of dental clinics using an air cleaning system based on silver nanoparticles. *Journal of Occupational Hygiene Engineering*. 2015. **[In Persian]**
38. V Abolhasannejad, **MJ Assari**. An overview of methods and instruments for the assessment of occupational exposure to nanoparticles. *Journal of Occupational Hygiene Engineering*. 2015. **[In Persian]**
39. R Rahimpour, AR Bahrami, **MJ Assari**, F Ghorbani, AR Negahban. Biological monitoring of petrochemical industry workers exposed to benzene, toluene, xylenes, methyl ethyl ketone, and phenol in Southern Iran. *Journal of Occupational Health and Epidemiology*. 2014.
40. **MJ Assari**, A Rezaee, AJ Jafari, A Bahrami. Development of a novel setup for direct colorimetric visualization of elemental mercury vapor adsorption on colloidal gold nanoparticles. *Iranian Journal of Health, Safety and Environment*. 2014.

41. R Rahimpour, AR Bahrami, F Ghorbani, **MJ Assari**, AR Negahban. Evaluation of urinary metabolites of volatile organic compounds and some related factors in petrochemical industry workers. *Journal of Mazandaran University of Medical Sciences*. 2014. [**In Persian**]
42. **MJ Assari**, A Rezaee, A Jonidi Jafari, A Bahrami . Optimization of a novel setup for an on-line study of elemental mercury adsorption by cold-vapor atomic absorption spectrometry. *Journal of research in health sciences*. 2013.

A) Abstracts and Presentations

About 31 oral and poster presentations

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