

## **Abdulrahman Bahrami**

### Contact Information

Address: Excellence Centre for Occupational Health, School of Public Health,  
Hamadan University of Medical Science, Post Code: 6517838736, Hamadan, Iran

Tel: 081 **38381645**

Fax: **081 38380509**

E-mail: bahrami @umsha.ac.ir

### Academic Rank: Professor

### Education and Training

<b>1992-1997</b>	<b>Ph.D</b>	<b>Brunel University, Chemistry Dept., England</b>	<b>Occupational Health, Chemical pollution</b>
<b>2000-2001</b>	<b>Sabbatical Research</b>	<b>Flinders University, Adelade, Australia</b>	<b>Analytical Toxicology</b>
<b>1986-1989</b>	<b>M.Sc</b>	<b>Tarbiat Modares University, Islamic Republic of Iran</b>	<b>Occupational Health</b>
<b>1984-1986</b>	<b>B.Sc</b>	<b>Faculty of Safety and Occupational Health</b>	<b>Occupational Health</b>
<b>1982-1984</b>	<b>Associated degree</b>	<b>Tehran University</b>	<b>Occupational Health</b>

### Experiences Scientific Position

#### **1. Assistant Professor in Occupational Health**

Hamadan University of Medical Sciences, Hamadan, Iran, 1996

#### **2. Associate Professor in Occupational Health**

Hamadan University of Medical Sciences, Hamadan, Iran, 2001

#### **3. Professor in Occupational Health**

Hamedan University of Medical Sciences, Hamadan, Iran, 2008

#### Research Interests

1. Trace residue analysis of chemical compounds present in air and biological samples with micro extraction methods such as solid and liquid phase microextraction, needle trap extraction and microextraction by packed sorbents.
2. Sample preparation for chemical pollutants
3. Analytical Toxicology
4. Occupational Health

## **Course Teaching BSc, MSc and PhD**

1. Evaluation of chemical pollutants for B.Sc, and M.Sc. and Ph.D students
2. Instrumental analysis for PhD students
3. Principals of air sampling For BSc students.
4. Evaluation and analysis of samples for BSc and MSc students, Bs &
5. Scientific English for occupational health BSC and MSc students,
6. Seminar and presentations in occupational health, Ph.D.

## **Executive Position**

1. **Dean of Excellence Center for Occupational Health**  
Hamadan University of Medical Sciences, Hamadan, Iran, 2014- To be continued
2. **Head of Occupational Health Department**  
Hamadan University of Medical Sciences, Hamadan, Iran, 1996- To be continued
3. **Deputy of Center for Environmental and Occupational Health, Iranian Ministry of Health and Medical Education, Tehran, Iran , 2010-2014**
4. **Deputy of the Education, School of Public Health**  
School of Public Health, Hamadan University of Medical Sciences, 1998-2001
5. **Member of National Board of Occupational Health Engineering Evaluation and Examination, Iranian Ministry of Health and Medical Education 1998-To be continued**
6. **Representative of the Ministry of Health in the Chemical Safety Commission of the Ministry of Foreign Affairs from 2010 to 2014**
7. **Member of the Stockholm Convention Monitoring and representative of the Ministry of Foreign Affairs since 1397 to 1400**

## **Thesis Supervisor for Ph.D Degree**

- 1- Synthesis of amide-based covalent organic frameworks (COFs) and their application as Needle Trap Device (NTD) for microextraction of Polycyclic Aromatic Hydrocarbons (PAHs) from workplace air, , Jamshid Khobi, Ph.D Thesis,2022.
- 2- Developed of Microextraction by Packed Sorbent (MEPS) method along with Hollow Polymer Nanospheres (HPSs) and Covalent Organic Frameworks (COFs) for determination of main BTEX metabolites in urine samples, Nematollah kurd, , Ph.D Thesis,2021.
- 3- Development of a method based on the needle-trap method with metal-organic frame work for determination of Halogenated hydrocarbons and Phenol compounds in occupational exposure, Ph.D Thesis,2019, Ali Firozi Chahak.
- 4- Developing an novel extraction method based on Microextraction by Packed Sorbent along with Metal Organic Framework sobents (MEPS- MOFs) for determination of Trans- trans mocunic acid (TTMA) and mandelic acid in urine samples, Ph.D Thesis, 2018, Razzagh Rahimpour
- 5- Development of a novel method based on the needle-trap method metal-organic framework adsorbent for determining the amount of BTEX and polycyclic aromatic hydrocarbons (PAHs) in air samples, Ph.D student, 2017, Shiva Soury.
- 6- Developing an extraction method based on microextraction by packed sorbent along with mulecolarly imprinted polymers (MIMEPS) for determination of t,t-muconic acid and mandelic acid in urine samples,2016, Ph.D,Asmaiel Solimani
- 7- A Novel Method of needle trap device using Carbotrap, sol-gel XAD2 soaked in 2MHP for sampling and analysis of volatile organic compounds and aldehydes in air, Ph.D, 2015, Ali Pourmohamadi
- 8- Aplication of hollow fiber-liquid phase micro extraction for pretreatment and determination of urinary metabolites of BTEX exposure, Ph.D, Farhad Ghamari, 2014

- 9- Development of new cooling system in solid phase microextraction for sampling and extraction of Volatile Organic Compounds in air and urine, PhD, Lila Tajik, 2015
- 10- Single-walled carbon nanotube/silica composite as a novel coating for solid-phase microextraction fiber based on sol-gel technology, PhD, SG Attari, 2012
- 11- Application of Needle trap Technique by Sorbent base of Carbon nanotube-Orthosilicate-Benzenesulfonate and Comparison with PDMS in determination of volatile biomarkers in urine, Ph.D, Sara Karimi, 2012
- 12- Application of SPME for sampling and analysis of halogenated hydrocarbons in air by GC/MS (Halothane, Isoflurane, Sevoflurane, Perchloroethylene, Carbon tetrachloride, 2-Chlorophenol, Chloroform, Trichloroethylene, Tetra chloroethane, Chlorobenzene), Javad Zarehi, 2011.
- 13- Development of novel Needle Trap Devices (NTDs) for sampling, preconcentration and extraction of VOCs and insecticides using nanotubes and newly synthesized nanomaterials, Mahmoud Hadari, 2012

### **Thesis Supervisor for Ms.C Degree**

- 1. Development of needle trap sampling based on modified COF adsorbent to determine the amount of polycyclic aromatic compounds (naphthalene, anthracene and Banzo-pyrene) in air, 2021, Mobina Hashemi**
- 2. Application of needle trap device packed with adsorbent covalent organic framework (Schiff base network) single-walled nanotube carbon for sampling of phenolic compounds in air. Nagar Safarpour, 2020**
- 3. Development of a novel method based on the needle-trap device filled with Nano composite hydroxyapatite and polyaniline adsorbent for sampling and microextraction of volatile organic compounds (BTEX) in air samples, Nasim Sanaie, 2020**
4. Development of an extraction method based on Microextraction by Packed Sorbent with Metal Organic Framework sorbent (MEPS - MOFs) for determination of isomers of methylhippuric acid in urine samples, 2019, Zahra Pirmohammadi
5. Development of a novel method based on the needle-trap method packed with metal-organic framework adsorbent for determination the amount of BTEX in urine samples, **Negar Saedi, 2019**
- 6. Application of needle trap device packed with adsorbent XAD2 prepared with polyaniline for sampling of polycyclic aromatic hydrocarbons (PAHs) in air, 2017, Zahra Ghalichi Zaveh**
- 7. Determination of optimum condition for sampling of 1,1-dimethylhydrazine in the air by Hollow fiber and Development analysis with spectrophotometer, 2017, Elnaz Taheri**
8. Developing an extraction method based on microextraction by packed sorbent along with molecularly imprinted polymers (MIMEPS) for determination of delta-aminolevulinic acid in urine samples, 2017, Farzaneh Molahbahrani

9. Apply of hollow fiber with chemical sorbent for sampling of maleic anhydride in the air and analysis by HPLC, Ms C, Ahsan Partovi
10. Biological monitoring and risk assessment of workers exposure to benzene in Assaluyeh petrochemical complexes in 2016, 2016, Afshin Molasalimi
11. Application of Hollow fiber based-liquid phase microextraction method for quantitative extraction of lead in blood and urine samples by graphite furnace atomic absorption spectrometry, Ms C, Samaneh Salari
12. Application of cold fiber headspace solid-phase microextraction for sampling and extraction of 2,5-hexanedione in urine, Ms C, Yasaman Pourbakhshi
13. The evaluation of hydrocarbons concentrations in the petrochemical complexes air in Bandar\_e\_mahshahr using BRIEF AND SCALA and OSHA models, MSc, Zahra Moradpour, 2015
  
14. Biological monitoring of workers exposed to benzene, methyl ethyl ketone, and phenol in petrochemical complexes Mahshahr in 2012, MSc, Razagh Rahimpour, 2012
15. Risk Assessment of individual Exposure to Volatile Organic Compound (voc) in mahshahr petrochemical complex. Samira Rahimnadjad, MSc, 2013
16. Assessment of volatile compounds in the exhaled breath of workers exposed to silica dust and association with respiratory parameters using the SPME -GC MS, MSc, 2013 (Mahdi Jalali)
17. Application of Solid Phase Microextraction (SPME) Sampler for Determination of Carbon Disulfide in Air, MSc, Hadi baiati, 2011
  
18. Study of sea coral as absorbent of volatile hydrocarbons & comparing the scale of their absorption with active charcoal, MSc, Mashkori, 2010
19. Investigation of Efficiency Solid Phase Micro Extraction for Determination of Epichlorohydrin in Air and its Analysis by GC, MSc, Atna Rafiapour, 2010.
20. The effect of electrical charging on removed of silica particle in spray tower scrubber, MSc, Majid Biatian, 2008
21. Determination of optimum condition for analysis of volatile organic compounds with High performance liquid chromatography, Marzia Sadeghian, 2008
  
22. Investigation of qualitative and quantitative of volatile organic compounds of ambient air in the Mahshahr petrochemical complex in 2009, MSc, Rohollah Maghsoodi Moghadam, 2010
  
23. Determination of effects surfactant materials in elimination sulfure dioxide with lime and soda ash into packed tower scrubber, MSc, Kobra Rotivand, 2009
24. The Evaluation of relationship between job stress and unsafe acts with occupational accidents in a vehicle manufacturing. MSc, Farin Fatami, 2007

25. Relationship between Halothane exposure , using the Trifluoroacetic acid in urine & enzymatic changes in liver in surgery rooms of Hamedan educational hospitals in 2006-2007, MSc, Amin Mirzakhani, 2007
26. Control of Particles in Azandarian grinder stones Workshops at Hamedan state 2006 , MSc, Mohsan Aliabadi, 2007
27. The realationship between urine analysis of methyl hippuric acid and exposure to xylenes in inhalation zone of painters, Taxi drivers and Gasoline station workers in Hamadan, MSc, Bahzad Foladi Dahghi, 2005
28. The relationship between urinalysis of Trans-Trans-Muconic Acid and benzene in ambient air of Taxi and gasoline station workers in Hamadan City. MSc, Hassan Ahmadi 2004

### **Thesis Ph.D Adviser**

1. Optimization of electrospun nanomedia in combination with photocatalysts in order to simultaneously remove aerosols and gaseous air pollutants, 2022, Rezvan Abedinlu
2. Dispersion modeling of air pollution from Hamadan power plant using AERMOD software, risk assessment and biological monitoring of relevant pollutants, Hania Ahmadpour, 2022
3. Assessing the association of the exposure to pesticides with the fertility, cardio metabolic and cancer markers in green house workers in Hamadan city, Iran, Fatemah Samiee, 2020
4. Assessing the association of the exposure to bioaerosols and volatile organic pollutants related to with transfer and disposal of Municipal Solid Waste sites with inflammation markers, blood factors, respiratory function and risk assessment of exposed, 2019, Ashraf Mazaheri.
5. Control of Toluene vapors using of cobalt oxide ( $\text{Co}_3\text{O}_4$ ) nano- photocatalysts and Graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) based on Methal-organic frameworks (M-BTC) in a plasma / photocatalysis integrated system, 2019, Mosan Yazdani Aval.
6. Removal of ethylbenzene from air by a non-thermal plasma - g-C<sub>3</sub>N<sub>4</sub>/EM/a-Fe<sub>2</sub>O<sub>3</sub> photocatalyst combined system under visible light irradiation, 2018, Roholah Parvari
7. Synthesis and Optimization of X-SrTiO<sub>3</sub>/RGO Complex for the Photocatalytic Removal of Volatile Organic Compounds under Visible Light and its Integration with Non-Thermal Plasma, 2017, Pjman Mohamadi
8. The monitoring of atmospheric PM<sub>2.5</sub>-bounded polycyclic aromatic hydrocarbons (PAH) concentration and the assay of 1-aminopyrene as one of its urinary metabolites using the

molecularly-imprinted polymer (MIP) technique in Hamadan, Iran, Aazam Nadeali, 2017.

9. Design and optimization of nano-structure catalysts supported on ZIF-8 sorbent in VOCs removal from air, Ph.D 2015, (Said Jafari).
10. Treatment of chloroform and chlorobenzene vapors by synthesized  $\text{TiO}_2$ & $\text{ZnO}$  photocatalyst on expanded graphite and Its application in non thermal-photocatalyst-ozonation system, Hosain Ebrahimi, 2014
11. Chlorinated volatile organic hydrocarbons control in air by plasma-catalyst hybrid technology" Ph. D student, 2011, Kamaldin Abedi

### **Thesis Ms. S Adviser**

1. Investigating the performance of a Combined system of electrostatic precipitator - nanofiber filters for filtering airborne particles (laboratory simulation), 2023, Adriss Soltani
2. Experimental study and computational fluid dynamics simulation (CFD) of a cyclone performance with a novel vortex finder, 2022, Sima Aghballi
3. Control of particles and volatile organic compounds using zeolitic imidazolate frame work functionalized electrospun poly acrylonitrile nano media, Aadel Jafari, 2020
4. Designing and manufacturing nanofibrous sensor based on Europium fuctionalized metal-organic frameworks for use in biological monitoring of BTEXs compounds, Hossien Fathi, 2019
5. The study of effect of geometric and structural changes on the cyclone performance, 2018, Zahra Tarin, 2018.
6. Design, implementation and evaluation of industrial ventilation system and gas cleaning for control of emitted pollution from dryers in a pulp industry, 2016, Hamid Reza Samadi.
7. Risk assessment of occupational exposure to formaldehyde among employees of the Pathology department in educational hospitals of Hamadan city, MSc, 2016, Aazam Kerami.
8. Design, implementation and evaluation of industrial ventilation systems and filtration for silica dust emissions from hydrocone crusher and screener units in a mining production company, MSc, 2017, (Zahra Rahimi)
9. VOCs vapours degradation by  $\text{MnO}_2/\text{Al}_2\text{O}_3/\text{Fe}_2\text{O}_3$  nanocomposite coated on ZSM-5 Zeolite, MSc, 2016 (Maryam FAIZ Arefi)
10. Assessment of industrial ventilation and process changes on control of emitted air pollutants in electrolysis unit of zinc production plant MSc, 2016 (Akbari)
11. Risk Assessment of Occupational Exposure with Antineoplastic Drugs Based on Environmental and Biological in Hamadan Training Hospitals MSc, 2015, (Hamideh Deljoh)

12. Design, implementation and evaluation of wetting and industrial ventilation systems for control of emitted particulate from stone crushing plants in a mining company MSc, 2014, (Morteza Babaie)
13. Design, Implementation & Assessment of Local Exhaust Ventilation System and dust collectors for crushing, and raw storage units of ABASIC Co. 2013, (Mohsen Moradi)
14. Survey of air pollutants from rendering plant of poultry slaughterhouses Hamadan and Gorgan and determine the refinery performance and provide corrective solutions. MSc, 2012 (Ghasem Hesam).

### **Books, Farsi**

1. The samples preparation methods for analysis of chemical compounds, Hake Publication, 2019
2. Sampling and analysis of pollutants in air, Volume 1, Fanavaran publication, 2016
3. Sampling and analysis of pollutants in air, Volume 2, Fanavaran publication, 2016
4. Sampling and analysis of pollutants in air, Volume 3, Fanavaran publication, 2016
5. Engineering methods for control of air pollution, Fanavaran publication, 2010

### **Papers, English from 2012**

1. Samiee, F., Samadi, M.T., Bahrami, A., Ghafouri-Khosrowshahi, A., Leili, M., Risk assessment of imidacloprid and dichlorvos associated with dermal and inhalation exposure in cucumber greenhouse applicators: A cross-sectional study in Hamadan, Iran, *International Journal of Environmental Analytical Chemistry*, 2023, 103(3), pp. 575–590
2. N Kurd, A Bahrami, A Afkhami, F Ghorbani Shahna, MJ Assari, F. Maryam , Hollow Polymer Nanospheres and Fe<sub>3</sub>O<sub>4</sub>@TFPA-Bd-COF as a Mixture Adsorbent in Microextraction by Packed Sorbent for Extraction of BTEX Biomarkers in Urine, *Analytical and Bioanalytical Chemistry Research* 10 (2), 237-250
3. Z Tarin, A Bahrami, M Goodarzi, F Ghorbani-Shahna, Investigation of the effects of using ribs on cyclone's vortex finder on its performance, **Journal of Health and Safety at Work** , 2022, 12 (2), 324-338.
4. N Kurd, A Bahrami, A Afkhami, 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, 1-12.

5. A Nadali, M Leili, M Karami, A Bahrami, A Afkhami, The short-term association between air pollution and asthma hospitalization: a time-series analysis, **Air Quality, Atmosphere & Health** , 2022, 15 (5), 901-907.
6. N Kurd, A Bahrami, A Afkhami, FG Shahna, MJ Assari, M Farhadian, Application of Fe<sub>3</sub>O<sub>4</sub>@ TbBd nanobeads in microextraction by packed sorbent (MEPS) for determination of BTEXs biomarkers by HPLC–UV in urine samples, **Journal of Chromatography B** , 2022, 1197, 123197
7. M Leili, A Ghafiuri-Khosroshahi, J Poorolajal, F Samiee, MT Smadi, A. Bahrami, Pesticide residues levels as hematological biomarkers—a case study, blood serum of greenhouse workers in the city of Hamadan, Iran, **Environmental Science and Pollution Research** 29 (25), 38450-38463.
8. A Karami Mosafer, E Taheri, A Bahrami, SM Zolhavarieh, MJ 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**, 2022, 28 (2), 1066-1076.
9. R Rahimpour, A Bahrami, D Nematollahi, F Ghorbani Shahna , Sensitive determination of urinary muconic acid using magnetic dispersive-solid-phase extraction by magnetic amino-functionalised UiO-66, **International Journal of Environmental Analytical Chemistry** 2022, 102 (4), 885-898.
10. F Ghorbani-Shahna, S Alizadeh, A Bahrami, D Nematollahi, Co<sub>3</sub>O<sub>4</sub>@Zn-BTC MOF as a novel nano-photocatalyst for degradation of toluene from ambient air, **International Journal of Environmental Analytical Chemistry**, 2022, 1-19.
11. P Mohammadi, F Ghorbani Shahna, A Bahrami, AA Rafati, M Farhadian, Enhanced photocatalytic activity of hydrothermally synthesised SrTiO<sub>3</sub>/rGO for gaseous toluene



degradation in the air: modelling and process optimisation using , **International Journal of Environmental Analytical Chemistry**, 2022, 102 (1), 222-242.

12. M Bahrami, A Bahrami, F Ghorbani-Shahna, Evaluation of Exposure to Silica and Silicosis Incidence at High-Risk Industries in Iran, **Iran. J Med Public Health** 2022, 3 (5), 1043
13. S Soury, A Bahrami, S Alizadeh, FG Shahna, D Nematollahi, Development of a Needle Trap Device Packed with HKUST-1 Sorbent for Sampling and Analysis of BTEX in Air, **Chemistry & Chemical Technology**, 2022, 16 (2), 314-324
14. NS Khotbesara, A Bahrami, MH Mohraz, A Afkhami, M Farhadian, Development of a needle trap device packed with the Schiff base network-1/single-walled carbon nanotube for sampling phenolic compounds in air, 2022, **Microchemical Journal** 172, 106984.
15. M Leili, A Nadali, M Karami, A Bahrami, A Afkhami, Short-term effect of multi-pollutant air quality indexes and PM<sub>2.5</sub> on cardiovascular hospitalization in Hamadan, Iran: a time-series analysis, **Environmental Science and Pollution Research**, 1-15
16. Sanaei, N., Bahrami, A., Shahna, F.G., Mohrez, M.H., Farhadian, M., Development of a Method Based on the Needle-trap Microextraction Filled with Hydroxyapatite and Polyaniline Nanocomposite for Determination of Volatile Organic Compounds in the Air, **Analytical and Bioanalytical Chemistry Research**, 2021, 8(1), pp. 1–14
17. Nadali, A., Leili, M., Bahrami, A., Karami, M., Afkhami, A., **Phase distribution and risk assessment of PAHs in ambient air of Hamadan, Iran**, **Ecotoxicology and Environmental Safety**, 2021, 209, 111807

18. Bahrami, M., Pirmohammadi, Z., Bahrami, A., **A review of new adsorbents for separation of BTEX biomarkers**, Biomedical Chromatography, 2021
19. Mazaheri Tehrani, A., Bahrami, M., Leili, J., Poorolajal, D., Zafari, M., Samadi, **Investigation of seasonal variation and probabilistic risk assessment of BTEX emission in municipal solid waste transfer station**, International Journal of Environmental Analytical Chemistry, 1-14
20. Karami Mosafer, A., Taheri, E., Bahrami, A., Zolhavarieh, S.M., Assari, M.J., **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, 202
21. Firoozichahak, A., Bahrami, A., Ghorbani Shahna, F., ...Nematollahi, D., Farhadian, M., **UIO-66-NH<sub>2</sub> Packed Needle Trap for Accurate and Reliable Sampling and Analysis of the Halogenated Volatile Organic Compounds in Air**, International Journal of Environmental Analytical Chemistry, 2021, 101(2), pp. 263–280
22. Samadi, M.T., Mahvi, A.H., Leili, M., ...Zafari, D., Mazaheri Tehrani, A., **Characteristics and health effects of potentially pathogenic bacterial aerosols from a municipal solid waste landfill site in Hamadan, Iran**, Journal of Environmental Health Science and Engineering, 202
23. Parvari, R., Ghorbani-Shahna, F., Bahrami, A., ...Assari, M.J., Farhadian, M.,  **$\alpha$ -Fe<sub>2</sub>O<sub>3</sub>/Ag/g-C<sub>3</sub>N<sub>4</sub> Core-Discontinuous Shell Nanocomposite as an Indirect Z-Scheme Photocatalyst for Degradation of Ethylbenzene in the Air Under White LEDs Irradiation**, Catalysis Letters, 2020, 150(12), pp. 3455–3469

24. Rahimpour, R., Bahrami, A., Nematollahi, D., Ghorbani Shahna, F., Farhadian, M., F Mollabahrami, A Bahrami, E Taheri, M Farhadian, Fast and Sensitive Determination of Acetic Anhydride in the Air Using Hollow Fiber Method, *Analytical and Bioanalytical Chemistry Research* 7 (2), 2020;185-195
25. P Mohammadi, F Ghorbani-Shahna, A Bahrami, AA Rafati, M Farhadian, Plasma-photocatalytic degradation of gaseous toluene using SrTiO<sub>3</sub>/rGO as an efficient heterojunction for by-products abatement and synergistic effects, *Journal of Photochemistry and Photobiology A: Chemistry*, 394, 2020; 112460
26. R Rahimpour, A Bahrami, D Nematollahi, F Ghorbani Shahna Sensitive determination of urinary muconic acid using magnetic dispersive-solid-phase extraction by magnetic amino-functionalised UiO-66, *International Journal of Environmental Analytical Chemistry*, 1-14; 2020, <https://doi.org/10.1080/03067319.2020.1727460>
27. P Mohammadi, F Ghorbani Shahna, A Bahrami, AA Rafati, M Farhadian, Enhanced photocatalytic activity of hydrothermally synthesised SrTiO<sub>3</sub>/rGO for gaseous toluene degradation in the air: modelling and process optimisation using , *International Journal of Environmental Analytical Chemistry*, 1-21, 2020, <https://doi.org/10.1080/03067319.2020.1720009>

- 28.N Saedi, A Bahrami, F Ghorbani Shahna, M Habibi Mohraz, M Farhadian, A needle trap device packed with MIL-100 (Fe) metal organic frameworks for efficient headspace sampling and analysis of urinary BTEXs, *Biomedical Chromatography*, 34(4), 2020; e4800, <https://doi.org/10.1002/bmc.4800>
- 29.A Firoozichahak, A Bahrami, FG Shahna, S Alizadeh, D Nematollahi, Development of a needle trap device packed with titanium based metal-organic framework sorbent for extraction of phenolic derivatives in air, *Journal of Separation Science*, 43(5), 2020; 1011-1018
- 30.A Firoozichahak, A Bahrami, F Ghorbani Shahna, S Alizadeh, UIO-66-NH<sub>2</sub> Packed Needle Trap for Accurate and Reliable Sampling and Analysis of the Halogenated Volatile Organic Compounds in Air, *International Journal of Environmental Analytical Chemistry*, 2019, 1-18, <https://doi.org/10.1080/03067319.2019.1664497>
- 31.E Partovi, A Bahrami, A AfKhami, F Ghorbani Shahna, F Ghamari, Development of Membrane Hollow Fiber for Determination of Maleic Anhydride in Ambient Air as a Field Sampler, *Annals of work exposures and health*, 2019, 63 (7), 797-805
32. A Poormohammadi, A Bahrami, B Shekher Giri, Recent advances in microextraction methods for sampling and analysis of volatile organic compounds in air: A review, *Analytical and Bioanalytical Chemistry Research*, 2019, 6 (2), 253-269
- 33.S Soury, A Bahrami, S Alizadeh, FG Shahna, D Nematollahi, Development of a needle trap device packed with zinc based metal-organic framework sorbent for the sampling and analysis of polycyclic aromatic

hydrocarbons in the air, 2019, *Microchemical Journal* 148, 346-354

34. ZG Zave, A Bahrami, FG Shahna, M Farhadian, Application of a needle trap device packed with XAD-2 polyaniline composite for sampling naphthalene and phenanthrene in air, *Journal of Chromatography A*, 2019, 1602, 74-82.
35. R Rahimpour, A Bahrami, D Nematollahi, FG Shahna, M Farhadian, Facile and sensitive determination of urinary mandelic acid by combination of metal organic frameworks with microextraction by packed sorbents, *Journal of Chromatography B*, 2019, 1114, 45-54
36. A Poormohammadi, A Bahrami, A Ghiasvand, FG Shahna, M Farhadian, Preparation of Carbotrap/silica composite for needle trap field sampling of halogenated volatile organic compounds followed by gas chromatography/mass spectrometry determination, *Journal of Environmental Health Science and Engineering*, **17**, (2019); 1045–1053
37. M Feiz-Arefi, F Ghorbani-Shahna, A Bahrami, H Ebrahimi, A Mahjub, Photocatalytic , Removal of Methylbenzene Vapors by MnO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>/Fe<sub>2</sub>O<sub>3</sub> Nano composite, *Iranian Journal of Health, Safety and Environment* 6 (1), 2019, 1158-1166
38. MF Yasaman Pournakhshi<sup>1</sup>, Abdul Rahman Bahramy<sup>1</sup>, Farshid Ghorbani Shanha, Development of Cold Fiber Head Space Solid-Phase Microextraction for Analysis of 2,5 Hexandion in Urine, *Chemistry & Chemical Technology* 13 (4), 2019,
39. A Poormohammadi, A Bahrami, A Ghiasvand, FG Shahna, M Farhadian Application of needle trap device packed with Amberlite XAD-2 resin prepared by sol-gel method for reproducible sampling of aromatic amines in air, *Microchemical Journal* 143, 127-132

- 40.S Jafari, F Ghorbani-Shahna, A Bahrami, H Kazemian Adsorptive removal of toluene and carbon tetrachloride from gas phase using Zeolitic Imidazolate Framework-8: Effects of synthesis method, particle size, and pretreatment of the adsorbent, *Microporous and Mesoporous Materials*, 2018, 268, 58-68
- 41.E Taheri, A Bahrami, FG Shahna, M Farhadian, Evaluation of a novel hollow fiber membrane technique for collection of 1, 1-dimethylhydrazine in air, *Environmental monitoring and assessment* 190 (8), 479
- 42.M Masaeli, A Bahrami, M Shahabian, Association between Urban Benzene Pollution and Incidence of Acute Myeloid Leukemia, *Iranian Journal of Blood and Cancer* 10 (2), 50-55
- 43.S Salari, A Bahrami, F Ghamari, FG Shahna, Multivariate optimization of the hollow fiber-based liquid phase microextraction of lead in human blood and urine samples using graphite furnace atomic absorption spectrometry, *Chemical Papers* 72 (8), 1945-1952
- 44.E Soleimani, A Bahrami, A Afkhami, FG Shahna, Selective determination of mandelic acid in urine using molecularly imprinted polymer in microextraction by packed sorbent, *Archives of toxicology* 2018, 92 (1), 213-222
- 45.E Soleimani, A Bahrami, A Afkhami, FG Shahna, Determination of urinary trans, trans-muconic acid using molecularly imprinted polymer in microextraction by packed sorbent followed by liquid chromatography with ultraviolet detection, **Journal of Chromatography B** 1061, 65-71
- 46.Kamal ad-Din Abedi, Farshid Ghorbani-Shahna, Abdulrahman Bahrami, Hossein Ebrahimi, Afshin Maleki, Faramarz Madjidi, Saeed Musavi,

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2. HR Samadi, FG Shahna, A Bahrami Design and Evaluation of Local Ventilation System and Packed Bed Scrubber to Control Hydrogen Sulfide Emitted from the Dryer Machines of a Cardboard Company, *Journal of Occupational Hygiene Engineering* Volume 6 (1), 8-16

3. H Deljou, MJ Assari, A Bahrami, M Zolhavarieh, Surface contamination with cyclophosphamide and iphosphamide in chemotherapy centers, *Journal of Mazandaran University of Medical Sciences* 28 (161), 133-137
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12. 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 (JMUMS)** 24 (116)

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## **Abstracts and Presentations**

### **1. 9th National Congress of Occupational Health and Safety**

Location: Yazd University of Medical Sciences,

Date: 9 June 2015-10 June 2015 Type : Presentaion, Lecturer,

### **2. 8th National Congress of Occupational Health and Safety**

Location: Sary, Iran,

Date: 24-26 April -2013

Type : Oral Presentation & Abstract, Organizer,

### **3. 7th National Congress of Occupational Health and Safety**

Location: Ghazvin-Iran,

Date: 3-5 May-2011

Type : Abstract, Lecturer,

### **The 5th National Congress of Occupatioinal Health and Safety**

The 5th National Congress of Occupatioinal Health and Safety

Location: Isfahan, Iran,

Date: 5-6 May -2005

Type : Poster, Lecturer,

**5. The 4th National Congress of Occupational Health and Safety**

The 4th National Congress of Occupational Health and Safety

Location: Tehran, Iran,

Date: 4-6 October -2004

**6. The 5th National Congress of Occupational Health and Safety**

The 5th National Congress of Occupational Health and Safety

Location: Isfahan, Iran,

Date: 5-6 May -2005

Type : Abstract, Lecturer,

**Editorial Board & Reviewing Activities**

**1. Journal of Research in Health Science**

2003- To be continued, Editorial Board Member,

**2. International Journal of Occupational and Industrial Hygiene IJOIH**

2008- To be continued, Editorial Board Member

**3. Journal of Occupational Hygiene Engineering**

2012- To be continued, Editorial Board Member,