

## **Dr. Fariborz Omid**

**Date:** 2021– 05- 09

### **Personal Information:**

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**Present Position:** Academic Member

### **Education:**

Undergraduate

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**Academic Positions / Employment:** Department of occupational health engineering

### **Military Service:**

Continuing military obligations

### **Teaching Title and Responsibilities:**

Occupational Health Engineering

**Research Support** (role, title, duration, amount):  
Governmental

	<b>Research Title</b>	<b>Year</b>	<b>Funding</b>
1	The hierarchy of preventive measures to protect workers against COVID-19 pandemic A review	2021	Shiraz University of Medical Sciences
2	Non-cancer risk assessment of occupational exposure of operating room staff to anesthetic gases in the teaching and therapeutic hospital of the Emam Khomeine Tehran	2020	Shiraz University of Medical Sciences
3	Study of ultrasound assisted emulsification microextraction (USAEME) and single drop microextraction (SDME) for development of a novel deep eutectic solvent(DES)-based method in biological monitoring of three frequent-used pesticides	2020	Tehran University of Medical Sciences
4	Investigation of operational parameters and combination of oxidants peracetic acid/ ultraviolet radiation on efficacy of hydrodynamic cavitation in removal of 4-chlorophenol	2020	Kermanshah University of Medical Sciences
5	The relationship between the use of mobile smartphones with fatigue and neck and shoulder muscles pain in students of Kermanshah University of Medical Sciences in 2020	2020	Kermanshah University of Medical Sciences
6	Modeling the Impact of different noise frequencies on Cognitive performance (selective attention & reaction time) of Kermanshah university of medical science students Using Adaptive Neuro-Fuzzy Inference System	2020	Kermanshah University of Medical Sciences
7	Application of metabolomics in occupational health: current status and future perspectives: A Systematic Review	2020	Shiraz University of Medical Sciences
8	Development of dispersive liquid-liquid micro-extraction method based on solidification of floating organic drop for biological monitoring of simultaneous exposure to toluene and xylene biomarkers in urine samples using high performance liquid chromatography	2020	Kermanshah University of Medical Sciences
9	Development of dispersive liquid-liquid microextraction based on solidified floating organic droplet for determination of trace amount of trans, trans mMuconic acid in urine	2019	Shiraz University of Medical Sciences
10	Conjunction of a new ultrasonic assisted dispersive solid phase extraction method with HPLC-DAD for trace determination of diazinon in biological and water media	2019	Behbahan Faculty of Medical Sciences
11	Modification of magnetized MCM-41 by pyridine groups for ultrasonic assisted dispersive micro-solid phase extraction of nickel ions	2018	Behbahan Faculty of Medical Sciences
12	Occupational health risk assessment of heavy metal using EPA method (Case Study: Steel Industry )	2018	Tehran University of Medical Sciences
13	Application of a novel nanoporous material for separation, preconcentration and trace detection of lead and copper ions in complex matrices	2017	Behbahan Faculty of Medical Sciences

14	Application of a new dispersive micro- solid phase extraction method for preconcentration and ultra-trace determination of cadmium ions in environmental and biological samples	2017	Behbahan Faculty of Medical Sciences
15	A new magnetic tailor made polymer for separation and trace determination of cadmium ions by flame atomic absorption spectrophotometry	2017	Behbahan Faculty of Medical Sciences
16	Optimization of ultrasonic assisted-dispersive solid phase extraction based on ion imprinted polymer nanoparticles using Exprimental design and its application for trace monitoring of silver ions in environmental samples	2017	Kermanshah University of Medical Sciences
17	Application of new ultrasonic dispersive solid phase extraction technique based on ion imprinted polymer nano particles for trace determination of lead ions in environmental and biological samples	2017	Kermanshah University of Medical Sciences
18	Assessment of gas explosion hazard in a Compressed Natural Gas fuel station by Fault Tree Analysis technique & proposing preventing means.	2016	Shahroud University of Medical Sciences
19	Assessment of Human Error Using the SHERPA Technique in Paint Factory Before and After the Intervention	2016	Shahroud University of Medical Sciences
20	The Study of chemical composition of electric arc furnace dust using X-ray diffraction analysis and evaluation of scrubber performance for the removal of these compounds	2016	Shahroud University of Medical Sciences
21	Survey of Patient safety climate of nurses' views in shahroud hospitals	2016	Shahroud University of Medical Sciences
22	Investigation the relationship between work Ability Index and Cognitive failure among nurses in educational hospitals of Tehran University of Medical Sciences in 2016/2015	2106	Shahroud University of Medical Sciences
23	Estimation of aerobic capacity and determination of its associated factors among students of shahrud University of Medical Sciences in 2015-2016	2016	Shahroud University of Medical Sciences
24	Assessing the combustibile dust concentration and explosion risk in Shahroud high-risk industries	2015	Shahroud University of Medical Sciences
25	Design and fabrication of step with adjustable height for step test	2015	Shahroud University of Medical Sciences
26	design, fabrication, installation and performance evaluation of a new model of absorptive-dissipative silencer for noise control of air conditioner and provide acoustic comfort in the shahroud governer office in 2015	2015	Shahroud University of Medical Sciences
27	Investigation the relationship between workload and quality of work life among nurses ineducational hospitals of Tehran University of Medical Sciences in 1393	2015	Shahroud University of Medical Sciences
28	Risk assessment of local effects or systemic dermal exposure to chemicals in the printing industry By RISKOFDERM	2015	Shahid Beheshti University of Medical Sciences

## **Research interest:**

Occupational Health, Analytical Toxicology, Risk Assessment

<https://scholar.google.com/citations?user=Ls4STFkAAAAJ&hl=en&oi=ao>

<https://www.scopus.com/authid/detail.uri?authorId=56050419900>

[http://apps.webofknowledge.com/Search.do?product=WOS&SID=C1tpRyJ65q4xJlf4KRq&search\\_mode=GeneralSearch&prID=c80bfef0-4c04-4dc8-9f0d-bcb05120328f](http://apps.webofknowledge.com/Search.do?product=WOS&SID=C1tpRyJ65q4xJlf4KRq&search_mode=GeneralSearch&prID=c80bfef0-4c04-4dc8-9f0d-bcb05120328f)

## **Bibliography:**

### **Peer-Reviewed Journal Articles:**

1. S. M.Taheri, M. Khadem, **F. Omidi**, A. Sedighi, S. J. Shahtaheri, " Development of A Sample Preparation Method for evaluating Trace Residue of Bentazon Pesticide in Biological Matrices Using Dispersive Solid Phase Extraction (SPE) Method Based on Molecular Imprinted Polymer (MIP), " *Journal of Health and safety at Work*, 11(1): 11-14 (2021).
2. F. Dehghani, **F. Omidi**, S. Yousefinejad, E. Taheri, " The hierarchy of preventive measures to protect workers against the COVID-19 pandemic: A review, " *Work*, 67(4): 771-777 (2020).
3. **F.Omidi**, F. Dehghani, S. J. Shahtaheri, " N-doped mesoporous carbon as a new sorbent for ultrasonic-assisted dispersive micro-solid-phase extraction of 1-naphthol and 2-naphthol, the biomarkers of exposure to naphthalene, from urine samples," *Journal of Chromatography B*, 122353 (2020).
4. F. Dehghani, M. Kamalinia, **F. Omidi**, R. A. Fallahzadeh, " Probabilistic health risk assessment of occupational exposure to isoflurane and sevoflurane in the operating room," *Ecotoxicology and Environmental Safety*, 111270 (2021).
5. M. Moradi, A. Elahinia, Y. Vasseghian, Elena-Niculina Dragoi, **F. Omidi**, A. Mousavi Khaneghah, " A review on pollutants removal by Sono-photo-Fenton processes, " *Journal of Environmental Chemical Engineering*, 104330 (2020).

6. R. A. Fallahzadeh, D. Ghadirian, M. S. Eshaghpanah, M. Shukohifar, S. Mozafari, A. R. Targhibi, **F. Omid**, " The Relationship between Ambient Temperature and Positive Cases of COVID-19; A Case Study in Abarkouh and Qeshm Cities of Iran," *Journal of Environmental Health and Sustainable Development*, 1016-1020 (2020).
7. Z. Beigzadeh, F. Golbabaei, M. Khadem, **F. Omid**, M. Seyed Someah, S. J. Shahtaheri, "Development of Molecularly Imprinted Membranes for Selective Determination of Urinary Ultra-Trace 5-Fluorouracil as Antineoplastic Drug Used in Chemotherapy," *Macromolecular Research*, 1-10 (2020).
8. **F. Omid**, M. Khadem, F. Dehghani, M. Seyedsomeah, S. J. Shahtaheri, "Ultrasound-assisted dispersive micro-solid-phase extraction based on N-doped mesoporous carbon and high-performance liquid chromatographic determination of 1-hydroxypyrene in urine samples," *Journal of Separation Science*, <https://doi.org/10.1002/jssc.202000172> (2020).
9. R.A. Fallahzadeh, M.H Ehrampoush, M. Nabi Meybodi, M.T. Ghaneian, A. Dalvand, **F. Omid**, M.H. Salmani, H. Fallahzadeh, A.H. Mahvi, " Investigating the effect of photo-electro oxidation process modified with activated carbon bed as a porous electrode on amoxicillin removal from aqueous solutions, " *Desalination and Water Treatment*, 185: 185-195 (2020).
10. R.A. Fallahzadeh, M.H Ehrampoush, M. Nabi Meybodi, M.T. Ghaneian, A. Dalvand, **F. Omid**, M.H. Salmani, H. Fallahzadeh, A.H. Mahvi, " Application of photoelectro-fenton process modified with porous cathode electrode in removing resistant organic compounds from aquatic solutions: modeling, toxicity and kinetics," *Korean Journal of Chemical Engineering*, 37: 969-977(2020).
11. R.A. Fallahzadeh, F. Omid, " Electro-Oxidation as an Effective Process for Removing Antibiotics and Persistent Organic Compounds Resistant to Biodegradation, " *Journal of Environmental Health and Sustainable Development*, 4: 862-865 (2019).
12. M. Ramin, F. Omid, M. Khadem, S.J. Shahtaheri, " Combination of dispersive solid-phase extraction with dispersive liquid-liquid microextraction followed by high-performance liquid chromatography for trace determination of chlorpyrifos in

- urine samples, *International Journal of Environmental Analytical Chemistry*, 1-11 (2019).
13. M. Ramin, M. Khadem, F. Omid, M. Pourhosein, F. Golbabaie, S. J. Shahtaheri, Development of dispersive liquid-liquid microextraction procedure for trace determination of malathion pesticide in urine samples," *Iranian Journal of Public Health*, 48: 1893 (2019).
  14. **F. Omid**, F. Dehghani, R. A. Fallahzadeh, M. Miri, M. Taghavi, and A. Eynipour, "Probabilistic risk assessment of occupational exposure to volatile organic compounds in the rendering plant of a poultry slaughterhouse," *Ecotoxicology and Environmental Safety*, 176: 132-136(2019).
  15. M. Ramin, M. Khadem, **F. Omid**, M. Pourhosein, F. Golbabaie, S. J. Shahtaheri, " Optimization of dispersive liquid–liquid microextraction procedure for detecting chlorpyrifos in human urine samples ," *Medical Journal of The Islamic Republic of Iran (MJIRI)*, 31(1): 429-434 (2019).
  16. **F. Omid**, M. Behbahani, M. Khadem, F. Golbabaie, and S. J. Shahtaheri, "Application of a new sample preparation method based on surfactant-assisted dispersive micro solid phase extraction coupled with ultrasonic power for easy and fast simultaneous preconcentration of toluene and xylene biomarkers from human urine samples," *Journal of the Iranian Chemical Society*, 16(6): 1131-1138 (2019).
  17. F. Dehghani, S. A. Zakerian, F. Golbabaie, and **F. Omid**, "Mood assessment of workers exposed to mixed organic solvents:(Case study: A paint industry)," *Health and Safety at Work*, 9(1)40-48 (2019).
  18. H. Kakaie, **F. Omid**, R. Ghasemi, M. Ramin Sabet, and F. Golbabaie, "Changes of WBGT as a heat stress index over the time: A systematic review and meta-analysis," *Urban Climate*, 27: 284-292 (2019).
  19. R. A. Fallahzadeh, R. Khosravi, B. Dehdashti, E. Ghahramani, **F. Omid**, A. Adli, and M. Miri, "Spatial distribution variation and probabilistic risk assessment of exposure to chromium in ground water supplies; a case study in the east of Iran," *Food and Chemical Toxicology*, 115 260-66 (2018).
  20. Behbahani M, Bagheri S, **Omid F**, Amini MM, "An amino-functionalized mesoporous silica (KIT-6) as a sorbent for dispersive and ultrasonication-assisted

- micro solid phase extraction of hippuric acid and methylhippuric acid, two biomarkers for toluene and xylene exposure" *Microchimica Acta*. 185(11):505 (2018).
21. **Omidi F**, Behbahani M, Khadem M, Golbabaee F, Shahtaheri SJ. "Application of ultrasonication for facilitating the extraction of hippuric acid and methyl hippuric acid in real samples using Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> sodium dodecyl sulfate: experimental design methodology" *Analytical Methods*. 10(37):4588-95 (2018).
  22. **Omidi F**, Fallahzadeh RA, Dehghani F, Harati B, Barati Chamgordani S, Gharibi V. "Carcinogenic and non-carcinogenic risk assessment of exposure to volatile organic compounds (BTEX) using Monte-Carlo simulation technique in a steel industry" *Health and Safety at Work*. 8(3):299-308 (2018).
  23. F. Dehghani, **F. Omidi**, O. Heravizadeh, S. Barati Chamgordani, V. Gharibi, and A. Sotoudeh Manesh, "Occupational health risk assessment of volatile organic compounds emitted from the coke production unit of a steel plant," *International Journal of Occupational Safety and Ergonomics* 1-6 (2018).
  24. M. Behbahani, A. Veisi, **F. Omidi**, A. Noghrehabadi, A. Esrafil, and M. H. Ebrahimi, "Application of a dispersive micro-solid-phase extraction method for pre-concentration and ultra-trace determination of cadmium ions in water and biological samples," *Applied Organometallic Chemistry*, 32[3] e4134 (2018).
  25. E. Vessally, E. Ghorbani-Kalhor, R. Hosseinzadeh-Khanmiri, M. Babazadeh, A. Hosseinian, **F. Omidi**, and M. H. Ebrahimi, "Application of switchable solvent-based liquid phase microextraction for preconcentration and trace detection of cadmium ions in baby food samples," *Journal of the Iranian Chemical Society*, 15[2] 491-98 (2018).
  26. M. Behbahani, A. Veisi, **F. Omidi**, M. Y. Badi, A. Noghrehabadi, A. Esrafil, and H. R. Sobhi, "The conjunction of a new ultrasonic-assisted dispersive solid-phase extraction method with HPLC-DAD for the trace determination of diazinon in biological and water media," *New Journal of Chemistry*, 42[6] 4289-96 (2018).
  27. F. Dehghani, F. Golbabaee, S. Abolfazl Zakerian, **F. Omidi**, and M. A. Mansournia, "Health risk assessment of exposure to volatile organic compounds (BTEX) in a

- painting unit of an automotive industry," *Health and Safety at Work*, 8[1] 55-64 (2018).
28. M. G. Kakavandi, M. Behbahani, **F. Omidi**, and G. Hesam, "Application of ultrasonic assisted-dispersive solid phase extraction based on ion-imprinted polymer nanoparticles for preconcentration and trace determination of lead ions in food and water samples," *Food Analytical Methods*, 10[7] 2454-66 (2017).
  29. V. Zarezade, A. Aliakbari, M. Es' hagh, M. M. Amini, M. Behbahani, **F. Omidi**, and G. Hesam, "Application of a new nanoporous sorbent for extraction and pre-concentration of lead and copper ions," *International journal of environmental analytical chemistry*, 97[4] 383-97 (2017).
  30. A. Zare, S. Yazdani Rad, F. Dehghani, **F. Omidi**, and I. Mohammadfam, "Assessment and analysis of studies related human error in Iran: A systematic review," *Health and Safety at Work*, 7[3] 267-78 (2017).
  31. M. Behbahani, **F. Omidi**, M. G. Kakavandi, and G. Hesam, "Selective and sensitive determination of silver ions at trace levels based on ultrasonic-assisted dispersive solid-phase extraction using ion-imprinted polymer nanoparticles," *Applied Organometallic Chemistry*, 31[11] (2017).
  32. M. Behbahani, Y. Bide, S. Bagheri, M. Salarian, **F. Omidi**, and M. R. Nabid, "A pH responsive nanogel composed of magnetite, silica and poly (4-vinylpyridine) for extraction of Cd (II), Cu (II), Ni (II) and Pb (II)," *Microchimica Acta*, 183[1] 111-21 (2016).
  33. M. K. Bojdi, M. Behbahani, **F. Omidi**, and G. Hesam, "Application of a novel electrochemical sensor based on modified siliceous mesocellular foam for electrochemical detection of ultra-trace amounts of mercury ions," *New Journal of Chemistry*, 40[5] 4519-27 (2016).
  34. V. Zarezade, M. Behbahani, **F. Omidi**, H. S. Abandansari, and G. Hesam, "A new magnetic tailor made polymer for separation and trace determination of cadmium ions by flame atomic absorption spectrophotometry," *RSC Advances*, 6[105] 103499-507 (2016).
  35. F. Dehghani, S. A. Zakerian, A. Zare, **F. Omidi**, Z. Moradpour, A. Eynipour, and M. Ghanbari Kakavandi, "Ergonomic interventions for improving working postures



- associated with manual materials handling (A case study of a mineral processing plant)," *Health and Safety at Work*, 6[4] 85-94 (2016).
36. M. Behbahani, P. G. Hassanlou, M. M. Amini, **F. Omid**, A. Esrafil, M. Farzadkia, and A. Bagheri, "Application of solvent-assisted dispersive solid phase extraction as a new, fast, simple and reliable preconcentration and trace detection of lead and cadmium ions in fruit and water samples," *Food chemistry*, 187 82-88 (2015).
  37. M. Behbahani, J. Abolhasani, M. M. Amini, O. Sadeghi, **F. Omid**, A. Bagheri, and M. Salarian, "Application of mercapto ordered carbohydrate-derived porous carbons for trace detection of cadmium and copper ions in agricultural products," *Food chemistry*, 173 1207-12 (2015).
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  39. M. Kalate Bojdi, M. Behbahani, M. Najafi, A. Bagheri, **F. Omid**, and S. Salimi, "Selective and Sensitive Determination of Uranyl Ions in Complex Matrices by Ion Imprinted Polymers-Based Electrochemical Sensor," *Electroanalysis*, 27[10] 2458-67 (2015).
  40. M. Behbahani, A. Aliakbari, M. M. Amini, A. S. Behbahani, and **F. Omid**, "Synthesis and characterization of diphenylcarbazide-siliceous mesocellular foam and its application as a novel mesoporous sorbent for preconcentration and trace detection of copper and cadmium ions," *RSC Advances*, 5[84] 68500-09 (2015).
  41. **F. Omid**, M. Behbahani, S. J. Shahtaheri, and S. Salimi, "Trace monitoring of silver ions in food and water samples by flame atomic absorption spectrophotometry after preconcentration with solvent-assisted dispersive solid phase extraction," *Environmental monitoring and assessment*, 187[6] 361 (2015).
  42. M. Behbahani, S. Salimi, H. S. Abandansari, **F. Omid**, M. Salarian, and A. Esrafil, "Application of a tailor-made polymer as a selective and sensitive colorimetric sensor for reliable detection of trace levels of uranyl ions in complex matrices," *RSC Advances*, 5[74] 59912-20 (2015).

43. M. Behbahani, M. Salarian, A. Bagheri, H. Tabani, **F. Omid**, and A. Fakhari, "Synthesis, characterization and analytical application of Zn (II)-imprinted polymer as an efficient solid-phase extraction technique for trace determination of zinc ions in food samples," *Journal of Food Composition and Analysis*, 34[1] 81-89 (2014).
44. **F. Omid**, M. Behbahani, H. S. Abandansari, A. Sedighi, and S. J. Shahtaheri, "Application of molecular imprinted polymer nanoparticles as a selective solid phase extraction for preconcentration and trace determination of 2, 4-dichlorophenoxyacetic acid in the human urine and different water samples," *Journal of Environmental Health Science and Engineering*, 12[1] 137 (2014).
45. **F. Omid**, M. Behbahani, S. Samadi, A. Sedighi, and S. J. Shahtaheri, "Coupling of molecular imprinted polymer nanoparticles by high performance liquid chromatography as an efficient technique for sensitive and selective trace determination of 4-chloro-2-methylphenoxy acetic acid in complex matrices," *Iranian journal of public health*, 43[5] 645 (2014).
46. M. Ramin Sabet, M. Pourhossein, M. Khadem, **F. Omid**, F. Golbabaie, S.J.Shahtaheri, "Development of dispersive liquid-liquid micro-extraction procedure for trace determination of pesticide diazinon in urine samples, " *Health and Safety at Work*, 8[4]: 359 (2019).
47. M. Behbahani, V. Zarezade, A. Veisi, **F. Omid**, S. Bagheri, " Modification of magnetized MCM-41 by pyridine groups for ultrasonic-assisted dispersive micro-solid-phase extraction of nickel ions," *International Journal of Environmental Science and Technology*, 1-10 (2018).
48. M. Ramin Sabet, M. Khadem, **F. Omid**, M. Pourhossein, F. Golbabaie, S.J.Shahtaheri, "Development of dispersive liquid-liquid micro-extraction procedure for trace determination of malathion pesticide in urine samples," *Iranian Journal of Public Health*, 48 [10]: 1893 (2019).
49. F. Dehghani, F.Golbabaie, **F. Omid**, S.A. Zakerian, "Investigation of the effect of unusual work shifts and sleep deprivation on cognitive performance in workers in the automotive industry," *Iran Occupational Health*, 16 [3]: 32 (2019).
50. M. Ramin Sabet, **F. Omid**, M. Khadem, S.J.Shahtaheri, "Combination of dispersive solid-phase extraction with dispersive liquid-liquid microextraction followed by

high-performance liquid chromatography for trace determination of Chlorpyrifos in urine samples, " *International Journal of Environmental Analytical Chemistry*, In press. (2019).

51. H. Aghaei, H. Kakoei, S. Shahtaheri, **F. Omid**, S. Arefian, and K. Azam, "Evaluating Poly-Aromatic Hydrocarbons in respiratory zone of the asphalt workers in Tehran city," *Health and Safety at Work*, 3[4] 31-40 (2014).
52. H. Kakoei, H. Aghaei, S. J. SHAhtaheri, **F. Omid**, S. Arefian, K. Azam, S. Resalati, "Evaluation of BaP in breathing zone of asphalt workers in Tehran, " *Occupational Medicine Quarterly Journal*, 6[4]12-18 (2015).
53. **F. omid** and G. N. saraji, "Non-intrusive Methods used to Determine the Driver Drowsiness: Narrative Review Articles," *International Journal of Occupational Hygiene*, 8[4] 186-91 (2017).