

### ***Personal details:***

First name: Ali

Surname: Faghihi-Zarandi

#### **Address:**

Department of occupational Health

Faculty of Public Health

Kerman University of Medical Sciences

Kerman, Iran

Tel: + 98 (0)34 3132 5108

Fax: + 98 (0)34 3132 5112

Email: Alifaghihi60@yahoo.com

### ***Education***

1. **B.Sc.**  
Chemistry, 1987, University of Shahid Bahonar, Kerman , Iran
2. **M.Sc.**  
Occupational Health, 1991, Tehran University of Medical Sciences  
Tehran, Iran
3. **Ph.D.**  
Occupational Health, 2007, University of Newcastle upon Tyne, UK

### ***Positions Held***

- 1- Assistant Professor in Occupational Health since 2007
- 2- Head of HSE Department, School of Public Health, Kerman University of Medical Sciences, 2018
- 3- Head of Occupational Health Department, School of Public Health, Kerman University of Medical Sciences, 2010
- 4- Head of Occupational Health Department, School of Public Health, Kerman University of Medical Sciences, 1997
- 5- Head of Occupational Health Department, School of Public Health, Kerman University of Medical Sciences, 1993

## Publications:

- 1- Shirkhanloo, H., Khaleghi Abbasabadi, M., Hosseini, F., **Faghihi Zarandi, A.** Nanographene oxide modified phenyl methanethiol nanomagnetic composite for rapid separation of aluminum in wastewaters, foods, and vegetable samples by microwave dispersive magnetic micro solid-phase extraction, Food Chemistry, 2021, 347, in press
- 2- Majid Bagheri Hosseinabadi, Narges Khanjani, Pirasteh Norouzi, **Ali Faghihi-Zarandi**, Davood Darban-Sarokhalil, Seyed Sajjad Khoramrooz, Seyed Reza Mirbadie, and Mehdi Mirzaii, The Effects of Antioxidant Vitamins on Proinflammatory Cytokines and Some Biochemical Parameters of Power Plant Workers: A Double-Blind Randomized Controlled Clinical Trial, Bioelectromagnetics, Vol. 42, 1, pp. 18-26, 2021
- 3- **Faghihi-Zarandi, A.**, Rakhtshah, J., Bahrami Yarahmadi, B., Shirkhanloo, H. A rapid removal of xylene vapor from environmental air based on bismuth oxide coupled to heterogeneous graphene/graphene oxide by UV photo-catalectic degradation-adsorption procedure, Journal of Environmental Chemical Engineering, 2020, Vol. 8, No.5, in press
- 4- **Zarandi, A.F.**, Shirkhanloo, H., Paydar, P. A novel method based on functionalized bimodal mesoporous silica nanoparticles for efficient removal of lead aerosols pollution from air by solid-liquid gas-phase extraction 03 Chemical Sciences 0306 Physical Chemistry (incl. Structural), Journal of Environmental Health Science and Engineering, Vol 18. No.1, pp. 177–188, 2020
- 5- Daniel Soleymani, Sahar Zargari, **Ali Faghihi-Zarandi**, Separation and determination of mercury from nail and hair in petrochemical workers based on silver carbon nanotubes by microwave-assisted headspace sorbent trap, Analytical Methods in Environmental Chemistry Journal, Vol. 3, No.2, pp.21-33, 2020
- 6- Majid Bagheri Hosseinabadia, Shahnaz Timoorib and **Ali Faghihi Zarandi**, Functionalized graphene-trimethoxyphenyl silane for toluene removal from workplace air by sorbent gas extraction method, Analytical Methods in Environmental Chemistry Journal, Vol. 2, No.2, pp.45-54, 2019
- 7- Parisa Paydar, **Ali Faghihi-Zarandi**, Air Pollution Method: A new method based on ionic liquid passed on mesoporous silica nanoparticles for removal of manganese dust in the workplace air, Analytical Methods in Environmental Chemistry Journal, Vol. 2, No. 2, pp. 5-14, 2019
- 8- **Faghihi-Zarandi, A.**, Shirkhanloo, H., Jamshidzadeh, C., A new method for removal of hazardous toluene vapor from air based on ionic liquid-phase adsorbent, International Journal of Environmental Science and Technology, Vol. 16, pp. 2797–2808, 2019

- 9- Zahed Ahmadi, Mohammad Reza Baneshi, Hamideh Asadollahzadeh, **Ali Faghihi Zarandi**. Adsorption efficiency of functionalized multi-walled carbon nanotube in sampling trichloroethylene in air, Journal of Kerman University of Medical Sciences, Vol. 26, No.2, pp.152-160, 2019
- 10- Farsipour, B., **Faghihi-Zarandi, A.**, Mozaffari, A., Karami-Mohajeri, Immune response and oxidative stress in workers of a copper concentration factory, International Journal of Workplace Health Management, Vol. 12, No. 4, pp. 258-266, 2019
- 11- Mohammad Reza Rezaei Kakhkha, **Ali Faghihi Zarandi**, Nahid Shafighi, Saeedeh Kosari, Batool Rezaei Kakhkha, Magnetic bentonite nanocomposite for removal of amoxicillin from wastewater samples using response surface methodology before determination by high performance liquid chromatography, Analytical Methods in Environmental Chemistry Journal, Vol. 3, No. 3, pp. 25-31, 2019
- 12- Majid Akhondipour<sup>1</sup>, **Ali Faghihi Zarandi**, Asghar Amiri, Nasser Gommami, Reza Vazirinejad, Studying the toxicity of molybdenum trioxide nanoparticles in male Wister rats, Journal of Occupational Health and Epidemiology, Vol. 7, No. 4, 2018
- 13- Saman Dastaran, Naser Hasheminejad, Arash Shahravan, Mohammadreza Baneshi, **Ali Faghihi**, Identification and Assessment of Human Errors in Postgraduate Endodontic Students of Kerman University of Medical Sciences by Using the SHERPA Method, Journal of Occupational Hygiene Engineering, Vol. 2, No. 4, 2016, pp. 44-51
- 14- **Faghihi-Zarandi A.**, and Akhgar M.R., Volatile organic compounds (VOCs) in the ambient air of concentration unit of Sar-cheshmeh Copper Complex, Journal of Environmental Sciences and Technology, Vol.18, No.1, 2016
- 15- Golbabaie, F., Ebrahimi, A., Shirkhanloo, H., Koohpaei, A., **Faghihi-Zarandi, A.** Single-Walled Carbon Nanotubes (SWCNTs), as a Novel Sorbent for Determination of Mercury in Air, Global journal of health science, Vol 8. 7, pp. 273–280, 2015
- 16- Sekhavati E., Mohammadi Zadeh M., Mohammad Fam I., **Faghihi Zarandi A.**, Prioritizing Methods of Control and Reduce Noise Pollution in Larestan Cement Factory Using Analytical Hierarchy Process (AHP), The Journal of Toloo-e-behdasht, TB 2014, Vol.13, No.2, ppt.156-167
- 17- Farideh Golbabaie, Ali Ebrahimi, Hamid Shirkhanloo, Mohammad Reza Baneshi, **Ali Faghihi-Zarandi**, Mohamad javad Kian. Performance comparison survey of multi-walled and single-walled carbon nanotubes for adsorption and desorption of Mercury Vapors in the air, Iran occupational Health Journal, Vol.10, No.5, Year. 2013, Page: 25-32
- 18- Golbabaie F., **Faghihi-Zarandi A.**, Ebrahimnejad P., Baneshi M.R., Risk Assessment of occupational exposure to the respirable fraction of cement dust and crystalline silica, Iran Occupational Health and Safety Journal, Vol.2, No.3, Year.2012, Page:17-28

- 19- Farideh Golbabaie<sup>1</sup>, **Ali Faghihi-Zarandi**, Ahmadreza Shokri, Mohammadreza Baneshi, Pedram Ebrahimnejad, Asghar Sedigh Zadeh, Evaluation of submicron particle filtration efficiency of domestic and imported surgical masks, Journal of School of Public Health & Institute of Public Health Research, Vol.10, No.2, Year.2012, Page: 47-58
- 20- Akhgar M. R., Shariatifar M., Akhgar A. R., Moradalizadeh M., and **Faghihi-Zarandi A.** Chemical Composition and Antibacterial Activity of the Leaf Essential oil from *Hertia intermedia*, Chemistry of Natural Compounds, Chemistry of Natural Compounds, Vol. 48, No.2, pp.329-331, 2012
- 21- Moradalizadeh M., Akhgar M. R., Rajaei P., **Faghihi-Zarandi A.**, Chemical Composition of the Essential oils from *Levisticum officinale* Growing Wild in Iran, Chemistry of Natural Compounds, Vol.47, No. 6, pp.1007-1009, 2012
- 22- **Faghihi-Zarandi A.**, Akhgar M. R., Aghasi M., Eubacterial diversity inside an activated sludge wastewater treatment system designed to investigate degradation of paracetamol, Journal of Pure and Applied Microbiology, 2012; Vol.6, No.2. pp.161-169
- 23- M.R. Akhgar, S. Pahlavanzadeh-Iran, P. Lotfi-Anari and **A. Faghihi-Zarandi**, Composition of Essential Oils of Fruits and Leaves of *Prangos ferulacea* (L.) Lindl. Growing Wild in Iran, Trends in Modern Chemistry, 2011; Vol.1, No.1, pp.1-4.
- 24- Akhgar M.R., Moradalizadeh M., and **Faghihi-Zarandi A.**, Chemical composition of the essential oils of two ferula species from Iran, Chemistry of Natural Compounds, 2011; vol.47, No.4, pp.639-640.
- 25- Akhgar M.R., Moradalizadeh M., **Faghihi-Zarandi A.**, and Rajaei P., Chemical Composition of the Essential Oils of *Ferula oopoda* (Boiss. & Buhse) Boiss. and *Ferula badghysi* (Korovin.) from Iran, J. Essential Oil Bearing Plants, Vol.14, No.3, pp.297-301
- 26- Akhgar M.R., Moradalizadeh M., **Faghihi-Zarandi A.** and Khorasanipour M., Chemical Composition of the Essential Oil of the Aerial Parts of *Salvia bazmanica* Rech.f.& Esfand., Iranian Journal of Medicinal and Aromatic Plants, 2010; Vol.26, No.4, pp.555-560
- 27- Yaghmaie B. **Faghihi-Zarandi A.** Bazrafshani M. and Arjomand Tajaddini A., Study of lead concentration in the air of gasoline stations of Kerman City. Journal of Kerman University of Medical Sciences. 1995, 2: 66-70.

### ***Conferences Publications:***

- 1- **Faghihi-Zarandi, A.**, Sallis, P. Biodegradation and effects of paracetamol in a completely mixed suspended growth bioreactor, 2<sup>nd</sup> international Conference on Health, Safety and Environment (HSE), 1-2 Nov. 2009, Tehran, Iran.

- 2- Vatani J. **Faghihi-Zarandi A.** Bahrami A. Akhgar M. Identification and measurement of the volatile organic pollutants in the air of the Sarcheshmeh Copper Complex unit, 2<sup>nd</sup> international Conference on Health, Safety and Environment (HSE), 1-2 Nov. 2009, Tehran, Iran.
- 3- Akhgar M.R. **Faghihi-Zarandi A.** Moradalizadeh M. Ghazanfari D. Faraji N. Identification of pharmaceutical compounds of the essential oils of aerial parts of *Nepeta Wettsteinii* H.Braun to decrease environmental pollutants by using of medicinal plants, Regional congress of environment and sustainable development, Islamic Azad University, Kerman branch, Kerman, Iran, Nov 2009.
- 4- Akhgar M.R. Moradalizadeh M. **Faghihi-Zarandi A.** Mohammadi N. Reducing environmental pollutants by identification of pharmaceutical compounds of the essential oils of *Ferula diversivittata* Regel & Schmalh, Regional congress of environment and sustainable development, Islamic Azad University, Kerman branch, Kerman, Iran, Nov. 2009.
- 5- **Faghihi-Zarandi A.** Loloyi M. Janizadeh S. Dindarlueian K. Quality control of drinking water in rural area of Fassa city, 2008, Regional congress of environment and sustainable development, Islamic Azad University, Kerman branch, Kerman, Iran, Nov 2009.
- 6- Akhgar M.R. Moradalizadeh M. **Faghihi-Zarandi A.** Ghazanfari D. Rayisi S. Reducing environmental pollutants arising from consuming of chemical drugs by identification of pharmaceutical compounds of the essential oils of aerial parts of *Nepeta Straussii* Hausskn & Bornm by GC/MS, Regional congress of environment and sustainable development, Islamic Azad University, Kerman branch, Kerman, Iran, Nov 2009.
- 7- Akhgar M.R. Moradalizadeh M. **Faghihi-Zarandi A.** Khalili S. Identification of pharmaceutical compounds of the essential oils of aerial parts of *Ferula Kashanica* Rech.F. to decrease environmental pollutants arising from consuming of chemical drugs, Regional congress of environment and sustainable development, Islamic Azad University, Kerman branch, Kerman, Iran, Nov 2009.
- 8- **Faghihi-Zarandi A.** Akhgar M.R. Bahrami A. Vatani J. Asadi M. Identification and measurement of volatile organic compounds (VOCs) by GC/MS, Regional congress of environment and sustainable development, Islamic Azad University, Kerman branch, Kerman, Iran, Nov 2009.
- 9- Akhgar M.R. Moradalizadeh M. **Faghihi-Zarandi A.** Khorasanipour M. Identification of pharmaceutical compounds of the essential oils of aerial parts of *Slavia Bazmanica* Rech.F.& Esfand to decrease environmental pollutants, Regional congress of environment and sustainable development, Islamic Azad University, Kerman branch, Kerman, Iran, Nov 2009.
- 10- Bagheri-Hosseiniabadi M. **Faghihi-Zarandi A.** Application of Green Methods in Extraction of Semi Volatile Organic Samples, 1<sup>st</sup> National Green Chemistry Congress, Islamic Azad University, Kerman branch, Kerman, Iran, 14-15 December 2011.

11- **A Faghihi-Zarandi**, S Pourabdian, MR Baneshi, M Mohammadi, P Kadivar. To investigate humoral immune response among stainless steel welders. 11th International congress of immunology and allergy of Iran. Tehran, Iran, April 2012.

### طرح های تحقیقاتی:

عنوان طرح	محل اجرا	مدت اجرا	وضعیت طرح	نوع همکاری
بررسی سطوح سرمی ایمونوگلوبولین های خون در جوشکاران فولاد ضدزنگ				مجری
ارزشیابی مواجهه شغلی کارگران کارخانه فروآلیاژ با منگنز و اثرات آن بر میزان آهن بدن			خاتمه یافته	مجری
ارزیابی ریسک مواجهه شغلی با سیلیس کریستالی در کارخانه سیمان زرنند ساوه			خاتمه یافته	مجری
ارزیابی خصوصیات فیزیکی مدیای ماسکهای جراحی و تاثیر آن بر پالایش ذرات			خاتمه یافته	مجری
بررسی کارایی کربن نانوتیوب یک و چند دیواره در نمونه برداری بنزن در هوا			خاتمه یافته	مجری
امکان سنجی جایگزینی جاذب های مختلف با هاپ کالیت برای نمونه برداری از بخارات جیوه			خاتمه یافته	مجری
بررسی کارایی کربن نانوتیوب چند دیواره عامل دار شده برای نمونه برداری از تری کلرواتیلن در هوا			خاتمه یافته	مجری
بررسی کارایی نانوفولرین کربنی، مایعات یونی و نانوفولرین کربنی اصلاح شده با مایعات یونی در جذب بخارات تولوئن			خاتمه یافته	مجری
بررسی کارایی نانوذرات دونهایی مزوپور سیلیکات (UVM 7) و نانوذرات دونهایی مزوپور سیلیکات عامل دار شده با گروه آمین (NH <sub>2</sub> – UVM 7) در حذف و نمونه برداری از سرب و منگنز			در دست اجرا	مجری
بررسی فاکتورهای بیوشیمیایی خون، آنزیم های کبدی و آنزیم کولین استراز در کارگران کارخانه کاوش کیمیای کرمان			در دست اجرا	مجری
حذف فتوکاتالیستی زایلن در هوا با استفاده از نانو Bi <sub>2</sub> O <sub>3</sub> تحت تابش پرتو فرابنفش			در دست اجرا	مجری
بررسی کارایی نانوجاذب های آغشته به مایعات یونی در جذب آنیلین و مشتقات آن از هوا			در دست اجرا	مجری
بررسی کارایی نانولوله های کربنی پوشش داده شده با نانوذرات کبالت و مولیبدن در حذف بخارات جیوه عنصری از هوا			در دست اجرا	مجری