

# Curriculum Vitae

## Personal Information

### Ali Abdollahnejad

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**LinkedIn profile:** [www.researchgate.net/profile/Ali\\_Abdollahnejad](http://www.researchgate.net/profile/Ali_Abdollahnejad)

**Google Scholar Profile:**

[Scholar.google.com/citations?hl=en&user=1E5WqTwAAAAJ](https://scholar.google.com/citations?hl=en&user=1E5WqTwAAAAJ)

**Scopus Profile:** [www.scopus.com/authid/detail.uri?authorId=57003446200](http://www.scopus.com/authid/detail.uri?authorId=57003446200)



## Education

### 2013 – 2019

**Ph.D., Environmental Health Engineering**, Shahid Sadoghi Yazd University of Medical Sciences, Yazd, Iran

### 2010 – 2013

**M.Sc., Environmental Health Engineering**, Isfahan University of Medical Sciences, Isfahan, Iran

### 2006- 2008

**B.Sc., Environmental Health Engineering**, Iran University of Medical Sciences, Tehran, Iran

## Research Interests

- ❖ Air pollution control (Biofiltering, AOPs)
- ❖ Air pollution monitoring and Bio-monitoring
- ❖ Air pollution modeling
- ❖ Health Risk Assessment of Air pollutants
- ❖ Water pollution monitoring and Health Risk Assessment of water pollutants
- ❖ Water treatment (AOPs, Filtration)

## Thesis topic

- **Ph.D. thesis topic:** Performance of a combined photoreactor/Biofilter system in the removal of n-hexane from polluted air stream.
- **M.Sc. thesis topic:** Comparison of conventional slow sand and modified filters in improvement of physicochemical and microbial quality in small communities' water resources

## Research Experiences

- ❖ Maragheh University of Medical Sciences (2019-Ongoing)
  - + Faculty member
- ❖ Health and Environment Research Center, Isfahan University of Medical Sciences (2010- Ongoing).
  - + Researcher
- ❖ Student Research Committee, Yazd University of Medical Sciences (2013- 2019).
  - + Researcher
- ❖ Student Research Committee, Isfahan University of Medical Sciences (2010- 2013).

## Language and Computer Skills

### Languages:

- ✓ English
- ✓ Azerbaijani (Mother language)
- ✓ Persian (National Language)
- ✓ Turkish (Intermediate)

### Computer:

- ✓ **Engineering Software:** Water9, EPANET, ArcGIS, Air Q+,
- ✓ (Word, PowerPoint, Excel, Visio), Endnote

## Research projects and Activities

- ✓ Design and synthesis of Fe<sub>2</sub>O<sub>3</sub>/CoMoO<sub>4</sub> ternary nanostructure and investigation of activation of hydroxyl and sulfate radicals precursors for treatment of textile industry wastewater, 2021-Ongoing
- ✓ Implementation of material flow cost accounting (MFCA) in Maragheh wastewater treatment plant with the approach of improving the performance of the treatment plant using GPS-X model, 2021-Ongoing.
- ✓ Investigation of residual agricultural pesticides in water resources, drinking water network and its health risk assessment of consumers in Maragheh, 2021-Ongoing.
- ✓ Investigation of trihalomethane concentrations (THMs) in Maragheh urban water distribution network and evaluation of their health risks on citizens, 2021-Ongoing.
- ✓ Investigation of spatio-temporal variations of benzene, toluene, ethylbenzene and xylene (BTEX) compounds concentration in the ambient air of Maragheh city and their health risk assessment
- ✓ Monitoring the COVID-19 virus in hospital wastewater and Maragheh Municipal Wastewater, 2020-Ongoing
- ✓ Treatment Plant with the feasibility approach of entering the COVID-19 virus from wastewater treatment plant effluent into the ambient air and receiving water resources, 2020-Ongoing
- ✓ Feasibility study of the presence of Quid 19 virus in airborne and sediment particles in Amir Al-Momenin Hospital in Maragheh, 2020-Ongoing
- ✓ Comparison of conventional and modified slow sand filters in improving physicochemical and microbial quality in water resources of small communities
- ✓ Investigation of noise pollution in the wards of Feyz Hospital and its surroundings.
- ✓ Investigation of heavy metals in some high-consumption samples of cigarettes and aromatic tobacco available in the Iranian market.
- ✓ Construction of a training platform for slow sand filtration and evaluation of its performance in removing biological, chemical and physical parameters of water.
- ✓ Evaluation of the effect of commercial solute deposition device with Iron and Aluminum electrodes in comparison with the device made with charcoal electrodes in the Health school on the physicochemical quality of drinking water.
- ✓ Investigation of activity and heavy metal lead in walnut dust in the air of polluted areas of Isfahan in 2013.
- ✓ Investigation of heavy metal concentrations of zinc, cadmium, nickel, lead and copper in rainfall in Urmia in autumn 2017.
- ✓ Modeling the concentration of BTEX compounds using land use regression in the air of Urmia in summer 2017.
- ✓ Investigation of Trihalomethane Concentrations (THMs) in Yazd Water Distribution Network Using Geographic Information System (GIS).
- ✓ Performance of a combined photoreactor/Biofilter system in the removal of n-hexane from polluted air stream

- ✓ Measuring the concentration of asbestos fibers in the open air of Yazd in summer and autumn 2016.
- ✓ Investigation of the concentration of BTEX compounds in the air of Yazd (Spring 2016).
- ✓ Estimation of AQI quality index and health hazards attributed to PM<sub>10</sub>, PM<sub>2.5</sub> and SO<sub>2</sub> in Yazd air.
- ✓ Investigation of phthalate content in drinking water samples in Isfahan.
- ✓ Design and implementation of microalgae adhesion growth system to remove nutrients from the effluent of municipal wastewater treatment plant.
- ✓ Feasibility study of removing Orange 10 (AO10) acid dye from aqueous solutions with BiVO<sub>4</sub>/TiO<sub>2</sub>/Zeolite nanocomposite.

### **Publications** (Google scholar profile: <https://Scholar.google.com/citations?hl=en&user=1E5WqTwAAAAJ>)

#### **Publications in Refereed Journals:**

- ✓ **Ali Abdollahnejad**, Mehdi Mokhtari, Ali Asghar Ebrahimi, Mahnaz Nikaeen, Mohsen Askari Shahi, Yaghoub Hajizadeh, **Improved degradation of n-hexane vapours using a hybrid system, a photoreactor packed with TiO<sub>2</sub> coated-scoria granules and a multilayer biofilter**, *Journal of Environmental Health Science and Engineering* (ISI) (IF: 2.13)
- ✓ Negar Jafari, Karim Ebrahimpour, **Ali Abdollahnejad**, Afshin Ebrahimi, **Efficient Degradation of Microcystin-LR by BiVO<sub>4</sub>/TiO<sub>2</sub> Photocatalytic Nanocomposite under Visible Light**, *Journal of Environmental Health Science and Engineering* (ISI) (IF: 2.13)
- ✓ M Mokhtari, Y Hajizadeh, AA Ebrahimi, MA Shahi, N Jafari, **A abdollahnejad**, **Enhanced biodegradation of n-hexane from the air stream using rhamnolipid in a biofilter packed with a mixture of compost, scoria, sugar beet pulp and poplar tree skin**, *Atmospheric Pollution Research*, (ISI) (IF: 4.35)
- ✓ **A Abdollahnejad**, L Gheisari, M Karimi, N Norastehfar, K Ebrahimpour, **Monitoring and health risk assessment of phthalate esters in household's drinking water of Isfahan, Iran**, *International Journal of Environmental Science and Technology* (ISI) (IF: 2.86)
- ✓ M Mokhtari, N Jafari, A Mohammadi, **A Abdollahnejad**, **Temporal and spatial trends of airborne asbestos fiber concentrations in the urban areas of Yazd, Iran**, *International Journal of Environmental Science and Technology* (ISI) (IF: 2.86)
- ✓ MK Fathi Fathabadi, **A Abdollahnejad**, H Teiri, Y Hajizadeh, **Spatio-seasonal variation of airborne asbestos concentration in urban areas of Shiraz, Iran**, *International journal of occupational and environmental health* (ISI) (IF: 2.06)
- ✓ **A Abdollahnejad**, N Jafari, A Mohammadi, **Mortality and Morbidity Due to Exposure to Ambient NO<sub>2</sub>, SO<sub>2</sub>, and O<sub>3</sub> in Isfahan in 2013–2014**, *International Journal of Preventive Medicine* (ISI)
- ✓ N Jafari, RS Alavijeh, **A Abdollahnejad**, H Farrokhzadeh, MM Amin, **An innovative approach to attached cultivation of Chlorella vulgaris using different materials**, *Environmental Science and Pollution Research* (ISI) (IF: 4.22)
- ✓ **A Abdollahnejad**, N Jafari, A Ebrahimi, A Mohammadi, H Farrokhzadeh, **Removal of Arsenic and Coliform Bacteria by Modified Sand Filter With Slag and Zeolite from Drinking Water**, *Health Scope* (ISI)
- ✓ Yaghoub Hajizadeh, Negar Jafari, Mehdi Mokhtari, AliAsghar Ebrahimi, **Ali Abdollahnejad**, **Protocol for identification of airborne asbestos fibres in the urban areas and spatio-temporal trend**, *Methods X* (ISI)

- ✓ Mehdi Mokhtari, Yaghoub Hajizadeh, Negar Jafari, Ali Asghar Ebrahimi, [Ali Abdollahnejad](#), **Improved biodegradation of hydrophobic volatile organic compounds from the air stream in a multilayer biofilter**, *Methods X* (ISI)
- ✓ Y Hajizadeh, A Mohammadi, [A Abdollahnejad](#), N Jafari, **Trends of BTEX in the central urban area of Iran: A preliminary study of photochemical ozone pollution and health risk assessment**, *Atmospheric Pollution Research* (ISI) (IF: 4.35)
- ✓ Behzad Rahimi, Negar Jafari, [Ali Abdollahnejad](#), Hossein Farrokhzadeh, Afshin Ebrahimi, **Application of efficient photocatalytic process using a novel BiVO<sub>4</sub>/TiO<sub>2</sub>-NaY zeolite composite for removal of acid orange 10 dye in aqueous solutions: Modeling by response surface methodology (RSM)**, *Journal of Environmental Chemical Engineering* (ISI) (IF: 5.9)
- ✓ M Miri, Hamideh Ebrahimi Aval, Mohammad Hassan Ehrampoush, Amir Mohammadi, Ali Toolabi, [A Abdollahnejad](#), **Human health impact assessment of exposure to particulate matter: an AirQ software modeling**, *Environmental Science and Pollution Research* (ISI) (IF: 4.22)
- ✓ Amir Mohammadi, Ali Asghar Ebrahimi, Reza Ghanbari, [Ali Abdollahnejad](#), **Data on THMs Concentration and spatial trend in Water distribution network (a Preliminary study In center of Iran)**, *Methods X* (ISI)
- ✓ Maryam Farajia, Afshin Ebrahimi, Heshmatollah Nourmoradi, [Ali Abdollahnejad](#), Reza Ghanbari, Amir Mohammadi, **Optimizing the removal of humic acid with polyaluminum chloride and polyaluminum ferric chloride as green coagulants using response surface methodology**, *Desalination and Water Treatment* (ISI) (IF: 1.3)
- ✓ A Nikoonahad, R Naserifar, V Alipour, A Poursafar, M Miri, HR Ghafari, [A Abdollahnejad](#), **Assessment of hospitalization and mortality from exposure to PM<sub>10</sub> using AirQ modeling in Ilam, Iran**, *Environmental Science and Pollution Research* (ISI) (IF: 4.22)
- ✓ Yaghoub Hajizadeh, Mehdi Mokhtari, Maryam Faraji, [Ali Abdollahnejad](#), Amir Mohammadi, **Bio monitoring of airborne metals using tree leaves: Protocol for bio monitor selection and spatial trend**, *Methods X* (ISI)
- ✓ A Mohammadi, S Nemati, M Mosaferi M, [A Abdollahnejad](#), Sheikhmohammadi A, **Predicting the capability of carboxymethyl cellulose-stabilized iron nanoparticles for the remediation of arsenite from water using the response surface methodology (RSM) model**, *Journal of Contaminant Hydrology* (ISI) (IF: 3.18)
- ✓ [A Abdollahnejad](#), N Jafari, A Mohammadi, M Miri, Y Hajizadeh, **Cardiovascular, respiratory, and total mortality ascribed to PM<sub>10</sub> and PM<sub>2.5</sub> exposure in Isfahan, Iran**, *Journal of education and health promotion* (PubMed)
- ✓ Y Hajizadeh, S Nemati, [A Abdollahnejad](#), A Mohammadi, **Influence of Air Pollution on Chemical Quality of Wet Atmospheric Deposition: a Case Study in Urmia, Iran**, *Iranian Journal of Health, Safety & Environment* (PubMed)
- ✓ N Jafari, [A Abdollahnejad](#), **Estimation of Spatial Distribution of PM<sub>10</sub>, Lead, and Radon Concentrations in Sepahanshahr, Iran Using Geographic Information System (GIS)**, *Journal of Mazandaran University of Medical Sciences* (Scopus)
- ✓ A Mohammadi, H Khorsandi, Y Hajizadeh, [A Abdollahnejad](#), **Assessment of Air Quality Index and Health Impact of PM<sub>10</sub>, PM<sub>2.5</sub> and SO<sub>2</sub> in Yazd, Iran**, *Journal of Mazandaran University of Medical Sciences* (Scopus)
- ✓ A Mohammadi, M Miri, [A Abdollahnejad](#), **Ambient Variations of Benzene and Toluene in Yazd, Iran, Using Geographic Information System**, *Journal of Mazandaran University of Medical Sciences* (Scopus)

- ✓ Mehdi Mokhtari, Negar Jafari, Asghar Ebrahimi, Amir Mohammadi, [Ali Abdollahnejad](#), **Assessment of airborne asbestos fibers concentration in Yazd city in summer 2015**, *Journal of Environmental Health and Sustainable Development* (Scopus)
- ✓ N Jafari, [A Abdollahnejad](#), **Evaluation of Seasonal and Spatial Variations of Air Quality Index and Ambient Air Pollutants in Isfahan using Geographic Information System**, *Journal of Environmental Health and Sustainable Development* (Scopus)
- ✓ Mehdi Mokhtari, N Jafari, A Mohammadi, [A Abdollahnejad](#), **Estimation of health effects of PM<sub>2.5</sub> exposure using Air Q model in Isfahan during 2013**, *Journal of Health & Development* (Persian)
- ✓ [A Abdollahnejad](#), A Ebrahimi, N Jafari, **Application of Iranian natural zeolite and blast furnace slag as slow sand filters media for water softening**, *International Journal of Environmental Health Engineering* (Scopus)
- ✓ [A Abdollahnejad](#), A Kamali, A Mohammadi, N Jafari, **Determination of microbial and chemical contamination of potable water served in the passenger bus (a case study in Soffeh terminal, Isfahan)**, *Journal of Health System Research* (Persian)
- ✓ [A Abdollahnejad](#), N Jafari, A Ebrahimi, **Determining the Heavy Metals Contents in Some Highly-used Samples of Cigarettes and Aromatic Tobaccos in Iranian Market**, *Toloo-e -Behdasht* (Persian)
- ✓ N Jafari, [A Abdollahnejad](#), **Assessment of Environmental Noise Pollution in Feiz Hospital Wards and Its Adjacent Area**, *Health System Research* (Persian)
- ✓ A Ebrahimi, M Mahdavi, M Khodarahmi, E Rahmati, [A Abdollahnejad](#), **Comparison between Removal Efficiency of Slag, zeolite, and Conventional media in slow sand Filter for Removal of Lead and Cadmium from Water Resources**, *Toloo-e-behdasht* (Persian)
- ✓ N Jafari, [A Abdollahnejad](#), A Ebrahimi, B Bina, S Mortezaie, **Geographic information system based noise study in crowded areas of Isfahan city in 2010-2011**, *International Journal of Environmental Health Engineering* (Scopus)
- ✓ N Jafari, S Nemati, Y Hajizadeh, [A Abdollahnejad](#), **Spatial analysis and attributable mortality to outdoor air pollutants in Isfahan**, *Journal of health research in community* (Persian)
- ✓ [Ali Abdollahnejad](#), Elham Shirdel, Shahin Raesivand, Afshin Ebrahimi, Negar Jafari, **Surveying and Zoning of Nitrate Concentration in Groundwater Resources in Freidan, Township, Iran, Using Geographic Information System (GIS)**, *Journal of Health System Research* (Persian)
- ✓ Elham Shirdel, [Ali Abdollahnejad](#), Afshin Ebrahimi, Negar Jafari, **A Survey on the Efficacy of Dilution Performance for Nitrate Reduction in Freidan County, Iran**, *Journal of Health System Research* (Persian)
- ✓ N Jafari, B Bina, S Mortezaie, A Ebrahimi, [A Abdollahnejad](#), **Survey of noise pollution levels in congested areas of Isfahan**, *Health System Research* (Persian)
- ✓ A Mohammadi, S Nemati, [A Abdollahnejad](#), A Nikonahad, **The trend of air quality index (AQI) variations in Mashhad metropolis using GIS**, *Journal of health research in community* (Persian)
- ✓ A Mohammadi, M Mokhtari, [A Abdollahnejad](#), S Nemati, **A Survey on Variations of BTEX and Ozone Formation Potential in Yazd City and Mapping with GIS**, *Urmia Medical Journal* (Persian)







- ✓ A Ebrahimi, S Nemati, [A Abdollahnejad](#), M Faraji, A Mohammadi, **Optimizing Removal Condition of CBP Precarsures in Water Resources by Activated Nano-Carbon and Nano Zeolite Using Taguchi Method**, *Journal of Health* (Persian)
- ✓ A Mohammadi, S Mousavi, S Nemati, M Momtaz, [A Abdollahnejad](#), **Determination of Health Effects Related to Particular Matter (PM<sub>2.5</sub>) in Ambient Air of Urmia City**, *Journal of Biomedicine and Health* (Persian)
- ✓ Mansour Sarafraz , Seyed Abas Mirzaee , Mohammad Mehdi Ahmad Mozam , Hosein Farokh Zadeh , Afshin Ebrahimi , [Ali Abdollahnejad](#), **Comparison of conventional slow sand and modified filters with recycled crushed glass media in removal of Turbidity and Total and Fecal coliforms from water resources**, *Journal of Health System Research* (Persian)
- ✓ Amir Mohammadi, Maryam Faraji, Sepideh Nemati, Mojtaba Momtaz, [Ali Abdollahnejad](#), Mohammad Miri, **Health effects of airborne particulate matter related to traffic in Urmia, north-west Iran**, *Journal of Air Pollution and Health*
- ✓ Y Hajizadeh, N Jafari, A Mohammadi, SM Momtaz, F Fanaei, [Ali Abdollahnejad](#), **Concentrations and mortality due to short-and long-term exposure to PM<sub>2.5</sub> in a megacity of Iran (2014–2019)**, *Environmental Science and Pollution Research* (ISI) (IF: 4.22)
- ✓ A Ebrahimi, K Ebrahim, [A Abdollahnejad](#), N Jafari, M Karimi, **Photocatalytic degradation of microcystin-LR using BiVO<sub>4</sub> photocatalysts under visible light irradiation: modelling by response surface methodology (RSM)**, *International Journal of Environmental Analytical Chemistry* (ISI) (IF: 2.82)
- ✓ N Jafari, A Ebrahimi, K Ebrahimpour, [A Abdollahnejad](#), **Optimization and Modeling of Microcystin-LR Degradation by TiO<sub>2</sub> Photocatalyst Using Response Surface Methodology**, *Journal of Environmental Health and Sustainable Development* (Scopus)
- ✓ M Kermani, H Arfaeinia, K Masroor, [A Abdollahnejad](#), F Fanaei, **Health impacts and burden of disease attributed to long-term exposure to atmospheric PM<sub>10</sub>/PM<sub>2.5</sub> in Karaj, Iran: effect of meteorological factors**, *International Journal of Environmental Analytical Chemistry* (ISI) (IF: 2.82)
- ✓ [Ali Abdollahnejad](#), Seyed Hossein Mousavi, Ayoub Sofizadeh, Negar Jafari, Babak Shiravand, **Climate change and distribution of zoonotic cutaneous leishmaniasis (ZCL) reservoir and vector species in central Iran**, *Modeling Earth Systems and Environment* (ISI)
- ✓ Amir Mohammadi, Yahya Ghassoun, Marc-Oliver Löwner, Maryam Behmanesh, Maryam Faraji, Sepideh Nemati, Ali Toolabi, [Ali Abdollahnejad](#), Hussein Panahi, Hafez Heydari, Mohammad Miri, **Spatial analysis and risk assessment of urban BTEX compounds in Urmia, Iran**, *Chemosphere* (ISI) (IF: 7.08)
- ✓ A Mohammadi, M Faraji, AA Ebrahimi, S Nemati, [A Abdollahnejad](#), M Miri, **Comparing THMs level in old and new water distribution systems; seasonal variation and probabilistic risk assessment**, *Ecotoxicology and Environmental Safety* (ISI) (IF: 6.2)
- ✓ Afshin Ebrahimi, Negar Jafari, Karim Ebrahimpour, Ali Nikoonahad, Amir Mohammadi, Farzad Fanaei, [Ali Abdollahnejad](#), **The performance of TiO<sub>2</sub>/NaY-zeolite nanocomposite in photocatalytic degradation of Microcystin-LR from aqueous solutions: Optimization by response surface methodology (RSM)**, *Environmental Health Engineering And Management Journal* (ISI)
- ✓ Yaghoub Hajizadeh, Negar Jafari, Mehdi Mokhtari, Amir Mohammadi, Seyed Mojtaba Momtaz, Farzad Fanaei, [Ali Abdollahnejad](#), **Effect of photocatalytic pretreatment on the biodegradation of n-hexane vapours in a biofilter**, *MethodsX* (ISI)

- ✓ Amir Mohammadi , Maryam Faraji , Sepideh Nemati Mansour , [Ali Abdollahnejad](#), Mohammad Miri, **Spatial analysis of heavy metals in surface soil, NW Iran**, *International Journal of Environmental Analytical Chemistry* (ISI) (IF: 2.82)
- ✓ Afshin Ebrahimi, Negar Jafari, Karim Ebrahimpour, Mahbobe Karimi, Sadegh Rostamnia, Ali Behnami, Reza Ghanbarie, Amir Mohammadi, Behzad Rahimi, [Ali Abdollahnejad](#), **A novel ternary heterogeneous TiO<sub>2</sub>/BiVO<sub>4</sub>/NaY-Zeolite nanocomposite for photocatalytic degradation of microcystin-leucine arginine (MC-LR) under visible light**, *Ecotoxicology and Environmental Safety* (ISI) (IF: 6.2)
- ✓ Amir Mohammadi , Sepideh Nemati Mansour , Maryam Faraji , [Ali Abdollahnejad](#), Ali Toolabi, Mohammad Miri, **A Protocol for Pollution Index, Source Identification, and Spatial Analysis of Heavy Metals in Top Soil**, *Journal of Environmental Health and Sustainable Development* (Scopus)
- ✓ Yaghoob Hajizadeh, Negar Jafari, Farzad Fanaei, Reza Ghanbari, Amir Mohammadi, Ali Behnami, Azin Jafari, Mohammad Aghababayi, [Ali Abdollahnejad](#) **Spatial patterns and temporal variations of traffic-related air pollutants and estimating its health effects in Isfahan city, Iran**, *Journal of Environmental Health Science and Engineering* (ISI) (IF: 2.13)
- ✓ Behzad Rahimi, Nayereh Rezaie-Rahimi, Negar Jafari, [Ali Abdollahnejad](#), Afshin Ebrahimi **Experimental data on the removal of acid orange 10 dye from aqueous solutions using TiO<sub>2</sub>/Na-Y zeolite and BiVO<sub>4</sub>/Na-Y zeolite nanostructures: A comparison study**, *Data in brief* (ISI)
- ✓ Majid Kermani, Ahmad Jonidi Jafari, Mitra Gholami, Farhad Taghizadeh, Kazhal Masroor, [Ali Abdollahnejad](#), Abbas Shahsavani, Farzad Fanaei **Characterisation of PM<sub>2.5</sub> – bound PAHs in outdoor air of Karaj megacity: the effect of meteorological factors**, *International Journal of Environmental Analytical Chemistry*, (ISI) (IF: 2.82)
- ✓ Negar Jafari, [Ali Abdollahnejad](#), Ali Behnami, Amir Mohammadi, Farzad Fanaei, Afshin Ebrahimi **Evaluation of microcystin-LR photocatalytic degradation in aqueous solutions by BiVO<sub>4</sub>/NaY-Zeolite nanocomposite: determination of optimum conditions by response surface methodology (RSM)**, *Toxin Reviews*, (ISI) (IF: 4.26)

## Publications in Conferences

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### Publications in Refereed Conference Proceedings:

-  Performance of photoreactor on the biofiltration of n-hexane vapours from the polluted air stream, *4<sup>th</sup> International Conference and 23<sup>th</sup> National Conference on Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2021). (Oral presentation)
-  Photocatalytic degradation of Microcystin-LR by TiO<sub>2</sub>/Zeolite nanocomposite from aqueous solutions, *4<sup>th</sup> International Conference and 23<sup>th</sup> National Conference on Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2021). (Oral presentation)
-  Characterization, Emission Sources and Risk Assessment of Heavy Metals Bound with PM<sub>2.5</sub> Micron Particles in the most Industrial City of Iran, *4<sup>th</sup> International Conference and 23<sup>th</sup> National Conference on Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2021). (Oral presentation)
-  Short and Long-term variations of PM<sub>2.5</sub> and its health effects in one of the most polluted cities of the center of Iran, *4<sup>th</sup> International Conference and 23<sup>th</sup> National Conference on*

- Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2021). (**Poster, as virtual presentation**)
-  **Biomonitoring of heavy metals and salt particles released from Lake Urmia using trees in the area**, *22<sup>th</sup> National Conference on Environmental Health*, Tehran University of Medical Sciences, Tehran, Iran (2020). (**Poster, as virtual presentation**)
-  **Effect of rhmnolipid biosurfactant on Biofiltration of n-hexane from the contaminated air stream**, *3<sup>th</sup> International Conference and 21<sup>th</sup> National Conference on Environmental Health*, Zanjan University of Medical Sciences, Zanjan, Iran (2019). (**Oral presentation**)
-  **Spatio-seasonal variation of Airborne Asbestos Concentration in High Traffic Areas of Yazd, Iran**, *3<sup>th</sup> International Conference and 21<sup>th</sup> National Conference on Environmental Health*, Zanjan University of Medical Sciences, Zanjan, Iran (2019). (**Poster presentation**)
-  **An innovative approach to attached cultivation of Chlorella vulgaris using different materials**, *3<sup>th</sup> International Conference and 21<sup>th</sup> National Conference on Environmental Health*, Zanjan University of Medical Sciences, Zanjan, Iran (2019). (**Top Poster**)
-  **Health Effects of airborne particulate matter (PM<sub>2.5</sub>) in Urmia City, NW Iran**, *3<sup>th</sup> International Conference and 21<sup>th</sup> National Conference on Environmental Health*, Zanjan University of Medical Sciences, Zanjan, Iran (2019). (**Oral presentation**)
-  **Investigation of asbestos fiber concentration in the air of Yazd in summer 2015**, *5<sup>th</sup> National Conference on Air and Noise Management*, Sharif University of Technology, Tehran, Iran (2017). (**Oral presentation**)
-  **Estimation of health effects due to exposure to NO<sub>2</sub> and SO<sub>2</sub> pollutants using AirQ model in Isfahan in 2013**, *5<sup>th</sup> National Conference on Air and Noise Management*, Sharif University of Technology, Tehran, Iran (2017). (**Poster presentation**)
-  **Air pollution around Isfahan Bama mine area using geographic information system (GIS)**, *2<sup>th</sup> International Conference and 20<sup>th</sup> National Conference on Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2017). (**Poster presentation**)
-  **Estimation of mortality due to exposure to outdoor Air pollutants in Isfahan**, *2<sup>th</sup> International Conference and 20<sup>th</sup> National Conference on Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2017). (**Poster presentation**)
-  **Influence of Air pollution on chemical quality of wet atmospheric deposition: a case study in Urmia, Iran**, *2<sup>th</sup> International Conference and 20<sup>th</sup> National Conference on Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2017). (**Poster presentation**)
-  **Application of response surface methodology in optimize coagulation-flocculation treatment of Humic acid using new Al and Fe coagulants**, *2<sup>th</sup> International Conference and 20<sup>th</sup> National Conference on Environmental Health*, Yazd University of Medical Sciences, Yazd, Iran (2017). (**Poster presentation**)
-  **Estimation of the total number of deaths attributed to PM<sub>2.5</sub> in Isfahan in 2013**, *4<sup>th</sup> National Conference on Air and Noise Management*, Sharif University of Technology, Tehran, Iran (2016). (**Oral presentation**)



- ✎ Survey of BTEX variations and ozone formation potential and mapping with GIS in Yazd, 1<sup>th</sup> International Conference and 19<sup>th</sup> National Conference on Environmental Health, Tehran University of Medical Sciences, Tehran, Iran (2016). (**Poster presentation**)
- ✎ Determining the amount of heavy metals in some high-consumption samples of cigarettes and aromatic tobacco in the Iranian market, 18<sup>th</sup> National Conference on Environmental Health, Shiraz University of Medical Sciences, Shiraz, Iran (2015). (**Poster presentation**)
- ✎ Evaluation of the efficiency of magnetic nanoparticles coated with chitosan cationic polymer in removing turbidity from aqueous solutions, 18<sup>th</sup> National Conference on Environmental Health, Shiraz University of Medical Sciences, Shiraz, Iran (2015). (**Poster presentation**)
- ✎ Investigation of Air Quality Index (AQI) and health hazards attributed to SO<sub>2</sub> in the air of Yazd, 18<sup>th</sup> National Conference on Environmental Health, Shiraz University of Medical Sciences, Shiraz, Iran (2015). (**Poster presentation**)
- ✎ Water and food bioterrorism, 18<sup>th</sup> National Conference on Environmental Health, Shiraz University of Medical Sciences, Shiraz, Iran (2015). (**Poster presentation**)
- ✎ Comparative study of reduction flotation and constant velocity in coagulation and flocculation process for advanced water treatment, 18<sup>th</sup> National Conference on Environmental Health, Shiraz University of Medical Sciences, Shiraz, Iran (2015). (**Poster presentation**)
- ✎ Estimation of health effects due to exposure to particulate matter less than 10 microns using AirQ model in Isfahan in 2012, 5<sup>th</sup> International Conference on sustainable development and urban construction, Isfahan, Iran (2015). (**Poster presentation**)
- ✎ Investigation of noise pollution in Isfahan, 1<sup>th</sup> National Conference on Environmental Health, Bushehr University of Medical Sciences, Bushehr, Iran (2014). (**Poster presentation**)
- ✎ Investigation of noise pollution in the wards of Feyz Hospital and its surroundings, 1<sup>th</sup> National Conference on Environmental Health, Bushehr University of Medical Sciences, Bushehr, Iran (2014). (**Poster presentation**)
- ✎ Feasibility study of using crushed recycled glass as a filter bed compared to conventional slow sand filter to remove turbidity and microbial agents from water, 14<sup>th</sup> National Conference on Environmental Health, Yazd University of Medical Sciences, Yazd, Iran (2011). (**Poster presentation**)

## Book

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- ✎ N. Jafari, M. Foroghi, **A. Abdollahnejad**, Translator of **Air Pollution Control** Book (S.P. Mahajan), (Isfahan University of Medical Sciences Publications)
- ✎ **A. Abdollahnejad**, B. Shiravand, N. Jafari, et al. "**Health in Disaster**" (De Negar Publications)

## Experience

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- Member of Teachers' Empowerment Committee, Maragheh University of Medical Sciences.
- Member of Iranian Association of Environmental Health (IAEH) (2016- Present)
- Expert in charge of air health of Isfahan Health Center (2017- 2019)

- Member of Air Pollution and Climate Change Working Group of Isfahan Health Center (2017-2019)
- Member of Isfahan Air Pollution Emergency Working Group in Isfahan Provincial Crisis Management (2017- 2019)
- Scientific and technical consultant of Sharif safety index Company in the field of analysis of environmental samples and Assessing health and environmental impacts (2013- Present)
- Scientific and technical consultant of Behdasht Ara Ardabil Company(2013- Present)
- Collaboration with Mehr Pardazan Samin Environment in e-waste recycling project (2011-2013)
- Member of the Scientific Committee of the 12<sup>th</sup> Annual Research Congress of Iranian Medical Students (National International) SICOB AIR 2011.
- Member of the Executive Committee of the 12<sup>th</sup> Annual Research Congress of Iranian Medical Students (National International) SICOB AIR 2011.

### **Teaching Experience**

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- Food hygiene, Department of Public Health, Maragheh University of Medical Sciences, 2021.
- General occupational health, Department of Public Health, Maragheh University of Medical Sciences, 2020.
- Environmental health 2, Department of Public Health, Yazd University of Medical Sciences, 2015.
- Environmental health 3, Department of Public Health, Yazd University of Medical Sciences, 2015.
- Environmental health 3, Department of Public Health, Yazd University of Medical Sciences, 2016.
- Environmental health rules and regulations, Department of Environmental Health Engineering, Yazd University of Medical Sciences, 2016

### **Teaching in workshops**

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- Strategic management of medical waste, Isfahan University of Medical Sciences, 2013.
- Executive management of medical waste, Isfahan University of Medical Sciences, 2013.
- Production of electronic content using ispring suite software and familiarity with Navid system, Maragheh University of Medical Sciences, 2020.

### **Certifications and Courses**

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- Article Reviewing Training "Special for the 12<sup>th</sup> Research Congress of Medical Students (National-International), Isfahan University of Medical Sciences, March 2011.
- Fundamentals of environmental management based on ISO 14001 standard (version 2004), United Nations Association of Iran, Tehran, December 2007.
- Impact of Environmental Factors on the Incidence of Non-Communicable Diseases, Isfahan University of Medical Sciences, October 2014.
- Familiarity with databases (advanced search), Isfahan University of Medical Sciences, May 2017.
- Water pollution and its treatment methods, Isfahan University of Medical Sciences, March 2012.
- Air pollution, climate change and ozone protection, Isfahan University of Medical Sciences, March 2012.
- “Air pollution and health; the state of Art”, Isfahan University of Medical Sciences, June 2015.
- Traffic restrictions impact assessment at city level, definition and computation of the distribution of human exposure to simultaneous air multi pollutant at continental level, Isfahan University of Medical Sciences, April 2014.
- Disinfection Principles & Sterilization process Monitoring, Isfahan University of Medical Sciences, July 2018.
- Hierarchical analysis process (AHP), Shahid Sadoghi Yazd University of Medical Sciences, May 2015.

- New findings on the impact of environmental factors on health and its control methods, Isfahan University of Medical Sciences, December 2014.
- Gathering Environmental Health Challenges, Isfahan University of Medical Sciences, September 2015.
- Retraining course on electronic content creation, Maragheh University of Medical Sciences, February, 2020.

### **Reviewer of journals**

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- ✓ **Journal of Health System Research**
- ✓ **Desalination and Water Treatment**
- ✓ **Chemosphere**
- ✓ **Science of the Total Environment**
- ✓ **Journal of Environmental Health and Sustainable Development**
- ✓ **Environmental Geochemistry and Health**
- ✓ **Ecotoxicology and Environmental Safety**
- ✓ **International Journal of Environmental Analytical Chemistry**
- ✓ **Environmental Science and Pollution Research**
- ✓ **Environmental Research**
- ✓ **Air Quality, Atmosphere and Health**
- ✓ **Journal of Environmental Health Science and Engineering**
- ✓ **International Journal of Environmental Health Engineering**
- ✓ **Journal of Polymer Research**