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# Mohammad Mosaferi

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*Professor of Environmental Health  
Tabriz University of Medical Sciences*

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# Mohammad Mosaferi

## Professor of Environmental Health

Faculty: Health, Tabriz University of Medical Sciences

Department: Environmental Health Engineering

Location: Tabriz

Areas of Expertise: Environmental Health Engineering

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## Background and Education:

✚ B.Sc

Environmental Health Engineering, College of Abureyhan, University of Tehran, Tehran, Iran(1996)

✚ M.Sc

Environmental Health Engineering, University of Medical Science, Tehran, Iran (1999)

✚ Ph.D

Environmental Health Engineering, University of Medical Science, Tehran, Iran (2005)

✚ **Sabbatical leave**

London Arsenic Group, Research School of Earth Sciences at UCL-BIRKBECK, London, England, Sep 2004- Jan 2005 (Supervisor: Prof. Karen Hudson-Edwards)

## Research Interest:

- Water Quality and Treatment
- Arsenic in the Environment, Health Effects, Remediation
- Environmental Epidemiology and geomedicine
- Wastewater Treatment
- Environmental and Health Impact Assessment
- Waste Management
- Passive defense

## Teaching:

- Advanced and New Methods of Water Treatment, Processes and Design (PhD)
- Design of Water Treatment Facilities (MSc)
- Health Impact Assessment of Development (PhD)
- Environmental Impact Assessment of Development (MSc)
- Advanced Analysis Methods of Pollutants (MSc)
- Water Quality Management (MSc and BSc)
- Environment Chemistry (BSc)

## Awards and Honors:

- Selected Researcher in Environmental Protection Field , East Azerbaijan Province, Iran
- Selected Young Researcher, Deputy of Research and Technology , Ministry of Health and Medical Education, Iran
- First Grade in Entrance Exam of PhD

- First Grade in Academic Course of PhD
- First Grade in Entrance Exam of MSc
- First Grade in Academic Course of MSc
- First Grade in Academic Course of BSc

### **Memberships, editorial boards:**

- Member, Iranian Association of Environmental Health (IAEH)
- Member, Editorial Board of the Journal of Health Promotion Perspective
- Member, Editorial Board of Depiction of Health Journal (in Persian)
- Member, Editorial Board of Chemistry and Environmental Journal (in Persian)
- Member, Health and Environment Research Center, Tabriz University of Medical Sciences
- Member, Tabriz Health Services Management Research Center, Tabriz University of Medical Sciences
- Member, Water Quality Research Center, Institute of Environment, Tehran University of Medical Sciences, 2011-2013
- Member, National Strategic Climate Change and Health Committee of the Ministry of Health (Task Force on Water Quality and Waterborne Diseases), 2013
- Member, Committee on Environment and Sustainable Development, Tabriz Municipality Research Center, 2012
- Member, Environmental Health Educational Board, Ministry of Health, Iran(2011-2014)
- Member of the committee "Drafting the Drinking Water Quality Strategy Paper", Ministry of Health and Medical Education, Receive letter of appreciation from Health Minister
- Member, Executive Committee of Water Quality Management, East Azerbaijan Province, Iran
- Member, Waste Management Committee of Tabriz Municipality
- Member, Scientific Committee of National Environmental Health Conference (Since 2006)

### **Academic and Administrative Experience**

- Assistant Professor, Department of Environmental Health Engineering, Faculty of Health, Tabriz University of Medical Sciences (2005)
- Associate Professor, Department of Environmental Health Engineering, Faculty of Health, Tabriz University of Medical Sciences (2011)
- Full Professor, Department of Environmental Health Engineering, Faculty of Health, Tabriz University of Medical Sciences (2014)
- Honorary Research Assistant, Department of Earth Sciences, College of Birkbeck University of UCL (London), UK, September 2004 - 2009
- Head of the Working Group on Environmental Science Development - Preserving Aquatic Ecosystems (2018)
- Deputy of Education, Faculty of Health, Tabriz University of Medical Sciences (2013-2016)
- Head of Department, Environmental Health Engineering, Tabriz University of Medical Sciences (2006-2010)
- Secretary of IAEH (2013-2015)
- Head of Environment and Sustainable Development Committee, Strategic Council of Tabriz Municipality, 2015-2016
- Head of the Working Group on Geomedicine, Iranian Environmental Health Research Network, 2011
- Head of Environmental Chemistry Laboratory, Faculty of Health, Tabriz University of Medical Sciences, Since 2006

### **Publication (Book, in Persian)**

- Introduction to Management of Food Industries Wastewater, 2002
- Arsenic: Overview, Environmental Epidemiology, Diagnosis and Treatment of Health Effects, 2008
- Practical Waste Management, 2015

### **Publication (Journal, in English)**

- Delfi S., Mosaferi M. (corresponding Author), Khalafi A., Zoroufchi Benis K., (2018). **Sulfur Dioxide Emissions in Iran and Environmental Impacts of Sulfur Recovery Plant in**



- Tabriz Oil Refinery**, Journal of Environmental Health Engineering and Management ,accepted
- Babazadeh T., Nadrian H., Mosaferi M., Allahverdipour H., (2018) **Identifying Challenges and Barriers to Participating in the Source Separation of Waste Program in Tabriz, Northwest of Iran: A Qualitative Study from the Citizens' Perspective**, Resources 2018, 7, 53; doi:10.3390/resources7030053
  - Babazadeh T., Nadrian H., Mosaferi M., Allahverdipour H., (2018) **Challenges in household solid waste separation plan (HSWSP) at source: a qualitative study in Iran**, Environ Dev Sustain . <https://doi.org/10.1007/s10668-018-0225-9>
  - Esfandi F., Mahvi A.H., Mosaferi M.\*, Armanfar F., Hejazi M.A., Maleki S. (2018) **Assessment of temporal and spatial eutrophication index in a water dam reservoir** Global J. Environ. Sci. Manage., 4(2): 153-166, Spring 2018
  - Ahmadi E., Mosaferi M. (Corresponding), Nikniaz L., Tabrizi J.S., Asghari Jafarabadi M., Safari G., Bargar M., (2018) **Frying oils quality control: necessity for new approach of supervision**. British Food Journal, (2018) Vol. 120 Issue: 2, pp.490-498, <https://doi.org/10.1108/BFJ-04-2017-0202>
  - Ramazani M.E., Mosaferi M., Rasoulzadeh Y., M. Pourakbar M., Jafarabadi A., Amini H., (2018) **Temporal and spatial evaluation of environmental noise in urban area: a case study in Iran**, Int. J. Environ. Sci. Technol. 2018; 15(6):1179–1192, DOI 10.1007/s13762-017-1462-4
  - Sadeghi F., Nasser S., Yunesian M., Nabizadeh R., Mosaferi M. & Mesdaghinia A. (2017): **Carcinogenic and non-carcinogenic risk assessments of arsenic contamination in drinking water of Ardabil city in the Northwest of Iran**, Journal of Environmental Science and Health, Part A, DOI: 10.1080/10934529.2017.1410421
  - Sadeghi F., Nasser S., Mosaferi M., Nabizadeh R., Yunesian M., & Mesdaghinia A., **Statistical analysis of arsenic contamination in drinking water in a city of Iran and its modeling using GIS**, Environ Monit Assess (2017) 189:230
  - Mosaferi M, Nemati S, Armanfar F, et al. **Geogenic Arsenic Contamination in Northwest of Iran; Role of Water Basin Hydrochemistry**. J Environ Health Sustain Dev. 2017; 2(1): 205-216
  - Nader Taghipour, Mohammad Mosaferi(Corresponding author) , Mohammad Shakerkhatibi, Neemat Jaafarzadeh, Reza Dehghanzadeh, Hassan HosseinNia, **Optimized coupling of a submerged membrane electro-bioreactor with pre-anaerobic reactors containing anode electrodes for wastewater treatment and fouling reduction**,Journal of Water Reuse and Desalination, 2017, 7 (3) 353-364 DOI: 10.2166/wrd.2016.063
  - Shakerkhatibi M., Mosaferi M., Zorufchi Benis Kh, Akbari Z., **Performance evaluation of a full-scale ABS resin manufacturing wastewater treatment plant: a case study in Tabriz Petrochemical Complex**, Environmental Health Engineering and Management Journal 2016, 3(3), 151–158
  - Mosaferi M, Zarei R, Barhagi MH, Jafar-abadi MA, Khataee A. **Bactericidal effect of starch-stabilized zero-valent iron nanoparticles on Escherichia coli**. Int J Env Health Eng 2016;5:2.
  - N Taghipour, H Amini, M Mosaferi, M Yunesian et al. **National and sub-national drinking water fluoride concentrations and prevalence of fluorosis and of decayed, missed, and filled teeth in Iran from 1990 to 2015: a systematic review**, Environ Sci Pollut Res Int. 2016 Mar;23(6):5077-98. doi: 10.1007/s11356-016-6160-0
  - Pourakbar M., Mosaferi M., Lak S., **Assessment of water supply system and water quality of Lighvan village using water safety plan, 2015**, Environmental Health Engineering and Management Journal 2 (4)
  - Nemati S, Mosaferi M, Ostadrahimi A, Mohammadi A. **Arsenic Intake through Consumed Rice in Iran: Markets Role or Government Responsibility**. Health Promot Perspect 2014; 4(2):
  - Ghanbari Ghozikali M., Mosaferi M., Gholam Hossein Safari, Jalil Jaafari. **Effect of exposure to O<sub>3</sub>, NO<sub>2</sub>, and SO<sub>2</sub> on chronic obstructive pulmonary disease hospitalizations in Tabriz, Iran**, Environ Sci Pollut Res, DOI 10.1007/s11356-014-3512-5
  - Mosaferi M., Mojtaba Pourakbar, Mohammad Shakerkhatibi, Esmaeil Fatehifar and Mehdi Belvasi, **Quality modeling of drinking groundwater using GIS in rural communities, northwest of Iran**, Journal of Environmental Health Science & Engineering 2014, 12:99

- Mosaferi M., Nemati S., Khataee A., Nasseri S., Asl Hashemi A., **Removal of Arsenic (III, V) from Aqueous Solution by Nanoscale Zero-Valent Iron Stabilized with Starch and Carboxymethyl Cellulose**, Journal of Environmental Health, Science and Engineering (JEHSE), 2014
- Taghipour H., Mosaferi M., **Heavy Metals in the Vegetables Collected from Production Sites**, HPP 2013, 3(2), 185-193
- Mosaferi M., Dianat I., Shaker Khatibi M., Nemati Mansour S., Fahiminia M., Asl Hashemi A., **Review of Environmental Aspects and Waste Management of Stone Cutting and Fabrication Industries**, Journal of Material Cycles and Waste Management, Volume 16, Issue 4 (2014), Page 721-730, DOI 10.1007/s10163-013-0193-y ISI IF: 1.364
- Ghanbari Ghosikali M., Mosaferi M., Naddafi K., **Environmental Health Problems and Indicators in Tabriz, Iran Health Promotion Perspectives**, 2013, 3(1), 113-123, doi: 10.5681/hpp.2013.013
- Fahiminia M., Mosaferi M., Reza A. Taadic, Pourakbar M., **Evaluation of point-of-use drinking water treatment systems' performance and problems**, Desalination and Water Treatment, 2013, doi: 10.1080/19443994.2013.797669 ISI, IF= 0.852
- Taghipour H., Mosaferi M., Armanfar F., Gaemmagami S. J., **Heavy metals pollution in the soils of suburban areas in big cities: a case study** Int. J. Environ. Sci. Technol. (2013) 10:243–250
- Taghipour H., Aslhashemi A., Assadi M., Khodaei F., Mardangahi B., Mosaferi M. and Roshani B., **Characterization of industrial waste from a natural gas distribution company and management strategies: a case study of the East Azerbaijan Gas Company (Iran)**, Waste Management & Research, 2012, DOI: 10.1177/0734242X12448514
- Keshavarzi B.; Moore F.; Mosaferi M.; Rahmani F., **Geochemistry and the source of natural arsenic contamination in groundwater, west of Iran**. Journal of Water Quality, Exposure and Health, DOI 10.1007/s12403-011-0051-x, 2011
- Taghipour H., Nowrouz P., Asghari Jafarabadi M., Nazari J., Asl Hashemi A., Mosaferi M. and Dehghanzadeh R., **E-waste management challenges in Iran: presenting some strategies for improvement of current conditions**. Waste Management & Research DOI: 10.1177/0734242X11420328, 2011
- Hajalilou B, Mosaferi M (Correspondence author), Khaleghi F, Jadidi S, Vosugh B, Fatehifar E. **Effects of Abandoned Arsenic Mine on Water Resources Pollution in the North West of Iran**, Journal of Health Promotion Perspectives, 2011 1(1):62-70
- Dastgiri S., Mosaferi M., Fizi M., Olfati N., Zolali SH., Pouladi N., Azarfam P. **Arsenic exposure, dermatological lesions, hypertension and chromosomal abnormalities in a rural community of northwest Iran**, Journal of Health, population and nutrition 2010; 28(1): 14–22.
- Mosaferi M., Yunesian M., Dastgiri S. and et al. **Prevalence of skin lesions and exposure to arsenic in drinking water in Iran**, Journal of Science of The Total Environment, 390 (2008) 69 -76
- Taghipour H., Mosaferi M. **Characterization of medical waste from hospitals in Tabriz, Iran**, Journal of Science of The Total Environment, 407 (2009) 1527 – 1535
- Taghipour H., Mosaferi M. **The challenge of medical waste management: a case study in northwest Iran-Tabriz**. Waste Management & Research, 2009: 27: 328–335 Mosaferi M., Masud Yunesian , Alireza Mesdaghinia and et al.:" **Correlation between Arsenic Concentration of Drinking Water and Hair** , Iranian Journal of Environmental Health Sciences and Engineering, Vol.2; pp 3-13 ,2005

### **Publication (Journal, in Persian (Domestic))**

- Mohammad Mosaferi, Ebrahim Ahmadi, Khalil Rahimi, **Evaluation and Statistical Analysis of Parameters of Temperature, Chlorine Residual and Water pH of Tabriz Swimming Pools in Terms of Compliance with Health**, Depiction of Health 2018; 9(1): 5-13
- Mosaferi M., Firouzi P., Bargar M., **Investigating All Kinds of Disinfectants Used in Tabriz Hospitals** Depiction of Health 2017; 8(3): 177-185
- Mosaferi M., Sheykholeslami S, Dastgiri S, Shakerkhatibi M. **Determination of arsenic in recreational hot water springs in Sarein- Ardabil region considering possible dermal exposure**. Med J Tabriz Uni Med Sciences Health Services. 2017, 39(2):70-76.

- Mosaferi M, Dastgiri S, Shakerkhatibi M, Sheykholeslami S. **Epidemiological Study of Skin Effects of Exposure to Low Concentration of Arsenic from Drinking Water in Two Villages of Sarab.** Med J Tabriz Uni Med Sciences Health Services. 2016;38(5):56-61.
- Mohammad Shakerkhatibi , Zahra Akbari, Mosaferi M., Siavash Derafshi ; Mir Mohammad Chavshbashi, Ismail Fatehifar, Ali Behnam, **Evaluating the Performance of ABS Plastic Plant in Wastewater Treatment System (ABS),** Civil Engineering , 2016, Volume 16, Number 2, Page 31-40
- Akbari Z, Shaker Khatibi , Mosaferi M , Asl Rahnomye Akbari N, Shiri Z , Farshchian M, **Isolation and Recognition of the Dominant Organisms in Activated Sludge Effluent Treatment ABS Unit and Evaluate the Potential for Biodegradation of Acrylonitrile.**2016, Uremia Medical Journal, Volume 27, Number (5)
- Ghanbari M; Mosaferi M; Naddafi K; Goudarzi G; **Health Effects of Exposing by Airborne Particulate Less Than 10 in Tabriz,** Medical Journal of Tabriz University of Medical Sciences, 2016, Number (38), Page 62 to 71, 2016
- Goreyshi B, Shaker Khatibi M , Aslani H, Dolatkahi B, Abdoli Silabi A, Mosaferi M\*. **Investigating the Microbiological Quality of Sludge from Municipal Sewage Treatment.** Journal of Health and Environment, 2016, Volume9, Number1, pages 81 to 90.
- Pourakbar M., Mosaferi M., Shaker Khatibi M., Moradi A., **Groundwater Quality Assessment From a Hydrogeochemical Viewpoint a Case Study Of Sarab County,** Journal Of Water and Wastewater , 2015, Volume 26 , Number 3 (97) ; 116 to 126.
- Bagheri Ardabilian Pari, Mosaferi M., Sharifyan A., **Removal of fluoride from water using an activated alumina modified with iron compounds,** Journal Of Civil And Environmental Engineering (University Of Tabriz), 2014 , volume 43 , number 4 (73) ; page(s) 13 to 19.
- Zarei r., Mosaferi M.\*, Soroush Barhagi m.h., Khataee A.R., Asghari Jafarabadi M., **E Coli Inactivation Efficiency Of Zero-Valent Iron Nanoparticles Stabilized By Carboxymethyl Cellulose,** Journal Of Health And Hygiene, 2014 , volume 5 , number 3 ; page(s) 214 to 223.
- Mosaferi M, gholampour A ,Noruzi P , Roshan R., **Environmental Impact Assessment in industrial Town of Hadishahr (Case Study),** Civil and Environmental Engineering Journal, 2014, Volume 44, Number 2. Page 95 to 103,
- Nazari J., Mosaferi M., Alamshahi. A. **Investigating the Rates and Causes of Occupational Accidents Which Was Occurred During Overhaul in an Oil Company (1389-1380),** Depiction of Health Journal, 2013, Volume 4, Number 3, Page 18 to 23.
- Baghal Asghari F, Mosaferi M., **Assessing the Effect of Economic Status on People Knowledge, Attitude and Practice in Waste Recycling : Case Study in Tabriz,** Depiction of Health Journal, 2013, Volume 4, Number 2, Page 15 to 20.
- Mosaferi M., Nazari J, Jahanimoghadam H. **Issues and aspects of public participation in East Azerbaijan province earthquake in 2012,** Depiction of Health Journal, 2013
- Mosaferi M, Ejlali A., Nazari J., **Uremia Drinking Water Health Quality,** Depiction of Health Journal , 2013, Volume 4, Number 2, Page 21 to 28
- Hosseinpour Feizi Mohammad Ali, Mosaferi M.,Dastgiri Saeid,Mehdipour Masoumeh,Koosha Ahma, **Analysis Of Fluoride And Some Quality Parameters Of Drinking Water In East Azerbaijan Province,** Medical Journal of Tabriz University Of Medical Sciences, 2012 , Volume 33 , Number 6 ; page(s) 45 to 50.
- Mosaferi M.,Rasulzadeh Y.,Nazari J.,Taghipour H., Diyanat I., **Study Of Noise Pollution In Downtown Area Of Tabriz During Heavy Traffic Times,** Medical Journal Of Tabriz University Of Medical Sciences, 2012 , Volume 34 , Number 4 ; page(s) 112 to 119.
- Hosseinpour Feizi Mohammad Ali, Mosaferi M.,Dastgiri Saeed, Mehdipour Masoumeh, Kusha Ahmad, **Determination Of Fluorosis Prevalence In Rural Communities Of East Azerbaijan Province,** Iranian Journal Of Health And Environment, 2012 , volume 5 , number 3 (17) ; page(s) 367 to 378.
- Hosseinpour Feizi Mohammad Ali, Mosaferi M.,Dastgiri Saeid, Kusha Ahmad, **Study Of Arsenic In Drinking Water: A Case Study In East Azerbaijan Province,** Medical Journal of Tabriz University of Medical Sciences, 2011 , volume 33 , number 2 ; page(s) 25 to 31.
- Mosaferi M., Shakerkhatibi M.\*, Mehri A. **Heterotrophic Bacteria In Drinking Water In Tabriz, Iran,** Journal of School of Public Health And Institute of Public Health Research, 2011 , Volume 8 , Number 4 ; page(s) 83 to 92.
- Ghanbari M., Nadafi K., Mosaferi M., Yunesian M., Aslani H, **Noise Pollution Evaluation In Residential And Residential- Commercial Areas In Tabriz-Iran,** Iranian Journal of Health And Environment, 2011 , volume 4 , number 3 (13) ; page(s) 375 to 384.

- Mosaferi M., Khatibi M., **Determining Amount of Heavy Metals in Stone Industries Wastewater and Sludge**, Civil and Environmental Engineering Journal, 2011, Volume 41, Number 1.
- Mosaferi M., Taghipour H., Nazmara S., Shakerkhatibi M., **Chemical Analysis of Water Used In Food And Drinking Industries: A Case Study In The North West of Iran**, Journal of The Application Of Chemistry In Environment , 2010 , volume 1 , number 3 ; page(s) 47 to 60.
- Mosaferi M., Taghipour H., Ostad Rahimi A.R., Nazmara Sh., **Microbiological and Chemical Quality Of Water In Food Industries With Low Content of Water**, Iranian Journal of Health And Environment, 2009, Volume 1 , Number 2 (2) ; page(s) 121 to 129.
- Hosseinpour Feizi M.A., Mosaferi M., Dastgiri S., Zolali Sh., Pouladi N., Azarfam P, **Contamination Of Drinking Water With Arsenic And Its Various Health Effects In The Village Of Ghopuz**, Iranian Journal Of Epidemiolog, 2008 , Volume 3 , Number 3-4 ; page(s) 21 to 27.
- Mosaferi M.\*, Taghipour H., Hasani A. H., Borgheei Mahdi, Kamali Kordabad Z, Ghadirzadeh A., **Study Of Arsenic Presence In Drinking Water Sources: A Case Study**, Iranian Journal of Health And Environment, 2008 , Volume 1 , Number 1 (1) ; Page(s) 19 To 28.
- Mosaferi M., Fahimnia M., Taghipour H. **Environmental Management Of The Solid Wastes of Stone Cutting Industries: A Case Study of Qom Province**, Journal Of Environmental Science And Technology , 2007 , Volume 9 , Number 2 (33) ; Page(s) 65 To 73
- Mosaferi M.\*, Hajizadeh Y., Ostad Rahimi A.R., Hashemi Asl A., **Importance Of Water Quality Control In Food Safety, Case Study: Drinking, Dairy And Caning Industries Of East Azerbaijan**, Medical Journal of Tabriz University of Medical Sciences, 2007 , Volume 29 , Number 1 ; Page(s) 93 -97.
- Mosaferi M.\*, Mesdaghinia A.R., **Removal of Arsenic From Drinking Water Using Modified Activated Alumina**, Journal: Water and Wastewater, 2005, Volume 16, Number 3 (55) ; Page(s) 3 - 14.
- Mesdaghinia A.R., Mosaferi M., Younesian Masoud, Naseri S., Mahvi A.H, **Measurement of Arsenic Concentration In Drinking Water of A Polluted Area Using A Field And SDDC Methods Accompanied By Assessment Of Precision And Accuracy of Each Method**, Journal: Hakim, 2005 , Volume 8 , Number 1 ; Page(s) 43 - 51.
- Mahvi A, Mosaferi M. , Naseri S. , M. Hosseini., **Qualitative and Quantitative Evaluation of Food and Pharmaceutical Industrials Waste of Tehran**, Journal of Environmental Science and Technology, 2004, No. 23, pp. 87- 96.
- Mosaferi M., Mahvi A.H. **Arsenic in Drinking Water and it's removal, health concerns and standards**, Water and Environment Journal , 2002
- Mosaferi M., Naseri S, **Controll of Balking in Activated Sludge Wastewater Treatment Plants using in Serial Sedimentation Basin**, 1999, Water and Environment Journal, Number 43, pp. 25- 33.

### Congress and Seminars (International)

- Mosaferi M, M Pourakbar, B Khaiatrostami, A Vaezihir, M Abbaszadeh, M Abedpour. **Spatial Distribution of Arsenic in Surface and Groundwater Resources of a Water Reservoir Basin, A Case Study in Northwest of Iran**. 2nd International and 20th National Conference on Environmental Health and Sustainable Development November 28-30, 2017, Yazd, Iran(The best paper award)
- Mosaferi M., Taghipour N., Shakerkhatibi M., Dehghanzadeh R., Ahmadi E. **Development of a Novel Submerged Membrane Electro-Bioreactor With Pre- Anaerobic Reactor Containing Anode Electrode For Wastewater Treatment and Fouling Reduction**. Proceedings of the 12th International Conference on Membrane Science and Technology, Tehran, Iran, 2015.
- Mosaferi M., Mahmoudi M., Pourakbar M. Sheykholeslami S. **Groundwater quality assessment in a volcanic region, iran**, proceedings of the 14th International Conference on Environmental Science And Technology Rhodes, Greece, 3-5 September 2015
- Mosaferi M., Nemati S., Armanfar F., Nadiri A. Mohammadi A. **Evaluation of Natural Arsenic Contamination And Role of Water Basin Hydrochemistry (Northwest, Iran)** Proceedings of The 14th International Conference on Environmental Science And Technology Rhodes, Greece, 3-5 September 2015
- Mosaferi M., Pourakbar M. Lak S. **Water Supply System And Water Quality Assessment of Liqvan Village Using Water Safety Plan**, Proceedings of The 14th International Conference on Environmental Science And Technology Rhodes, Greece, 3-5 September 2015.



- Mohammad M., Mohammad ali Hosseinpour Feizi, Saeid Dastgiri, Ahmad Kusha, Masumeh Mehdipour. A Case Study of Dental Fluorosis Prevalence In Rural Communities In Northwest Iran, Proceeding of XXXth Conference Advances In Fluoride Research, Szczecin, Poland, 2012.
- Mohammad M., Mohammad ali Hosseinpour Feizi, Saeid Dastgiri, Ahmad Kusha, Fluoride Levels In Drinking Water of East Azerbaijan Province, Iran. Proceeding of XXXth conference advances in fluoride research, Szczecin, Poland, 2012.
- Taghipour H, Assadi M, Khodaei F, Marangahi B, Mosaferi M., Aslhashemi A. Characterization of gas distribution companies waste and presenting managing strategies: a case study in East Azerbaijan gas company, Iran. Eurasia Waste Management Symposium, 2011, Istanbul, Turkey.
- Taghipour H, Norouz P, Nazari J, Aslhashemi A, Mosaferi M. E-waste management challenges in iran and presenting some strategies for improving of current condition. Eurasia Waste Management Symposium, 2011, Istanbul, Turkey.
- Mosaferi M, Dastgiri S., Hoseinpour Fizi A.H., Mehdipour M., Asghari B.F. Fluoride In Drinking Water And Fluorosis: A Case Study In The Northwest of Iran , SEGH 2010 International Conference , Environmental Quality and Human Health
- Mosaferi M, Nasserli S Arsenic In Drinking Water of Rural Areas of Iran, 3 Rd International Congress on Arsenic In The Environment, Taiwan 2010
- Mosaferi M., Taghipour H. Heavy metal presence in wastes of cutting stone industries: a case study, proceeding of international conference health and the changing world, 2008 Bangkok, Thailand.
- Taghipour H., Mosaferi M. Management of medical waste in northwest Iran-Tabriz, International Conference Health and The Changing World, November 11-13, 2008 Bangkok, Thailand
- Mosaferi M., Hassani A.H., Kamali Z., and et al. Prevention of Arsenic Health Effects Due To Exposure Via Drinking Water And Role of GIS: Case of Hashtrood Villages, Iran, Second International Conference on Health And GIS, Geoinformation Technology For Better Health, Bangkok, Thailand, 2008
- Mohammad Mosaferi, Masud Yunesian, Alireza Mesdaghinia (2005):"Assessment of Drinking Water Arsenic Effect on Hair Arsenic Level in Bidjjar Villages of Iran: Is the Water Main Source of Exposure?" The xvii IEA World Congress of Epidemiology (Wce2005), Bangkok, Thailand
- Alireza Mesdaghinia, Masud Yunesian, Mohammad Mosaferi (2005): Epidemiological Study of Arsenic Induced Skin Lesions In West of Iran, The XVII IEA World Congress of Epidemiology (WCE2005), Bangkok, Thailand
- Yunesian M., Mosaferi M., Mesdaghinia A.R.: Correlation Between Arsenic Concentration of Drinking Water and Hair In a Polluted Area of Iran, Environmental Mineralogy, Geochemistry And Human Health, Mineralogical Society Winter Meeting , Bath Spa University , 6-7th January 2005
- Mosaferi M., Yunesian M., Mesdaghinia A.R. And et al: Measurement of Arsenic In Drinking Water of Bijjar city Villages ,Kurdistan, Iran, Speciation And Toxicity, A Two Day Discussion Meeting, School of Earth Science , UCL Birkbeck College, London,13-14th 2004
- Mosaferi M., Yunesian M., Mesdaghinia A.R. And et al: Arsenic Occurrence In Drinking Water of I.R of Iran: The Case of Kurdistan Province: Proceeding of Seminar on Fate of Arsenic In The Environment, 2003, Buet,
- Mesdaghinia A., Mosaferi M., Nasserli S., Mahvi a. H. Yunesian M. Nadim A.(2003): Evaluation of Accuracy And Precision of a Test Kit For Field Measurement of Arsenic Concentration In Drinking Water ,5th International Congress Of Toxicology, Turkey, Antalya

### **Congress and Seminars (Domestic, in Persian)**

- Sadathosseyni F., Mosaferi M., Alizadeh Sh., Alavipour A. Design of NIS Checklist for HSE Status Tourism Areas: A Case Study of Tabriz City, The 8th Asia Summit of Safe Society and the first Regional Meeting of the Safe Community of , 2017
- Mosaferi M., Sadathosseyni F., Alizadeh Sh., Ramazani ME. Solutions for improving safety and maintaining the health of the municipality's scavengers. The 8th Asia Summit of Safe Society and the first Regional Meeting of the Safe Community of , 2017
- Mosaferi M., S Sherafat Bashir , Z Yousefi, N Amini Sani, Sh Maleki, Assessment of Exposure to Radon in Shabestar County, 1st International and 19th National Conference on Environmental Health, Tehran, 2016



- M Mosaferi, E Ahmadi, L Nik Niyaz, M.S Tabrizi, M Asghari, Y Jabari, Assessing the Amount of Peroxide of Edible Oil during the Production and Distribution Phases: an Objective Study Conducted in the Northwest of Iran, 1st International and 19th National Conference on Environmental Health, Tehran, 2016
- Mosaferi M, Goreyshi B, Derafshi S, Khalfi A, Shakerkhatibi M. Environmental Impact Assessment of Sulfur Granulation Unit of Tabriz Refinery, the Eighteenth National Congress of Environmental Health, Shiraz 2015
- Mosaferi M, Esfandi F., Hejazi M, Armanfar F, Maleki S. Investigating the Status of Eutrophication in Drinking Water Resources: A Case Study in Sahand Dam by GIS, Eighteenth National Conference of Environmental Health, Shiraz 2015
- Sherafat Sharif S, Shahabi M, Fasihi S, Mosaferi M. Study of groundwater physico-chemical Quality of Bostanabad Villages using GIS, Eighteenth National Conference on Environmental Health, Shiraz 2015
- Mosaferi M, Jahanimoghadam M, Shakerkhatibi M, Mohammadi Aghdam K, Ismaili L, Saatlu, Dardi Mahmoudi M. Evaluating and Analyzing of Underground Drinking Water Quality in Urmia Western Edge Villages by GIS and PCA, the Eighteenth National Conference on Environmental Health, Shiraz 2015
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  - Mosaferi M., Mahdavi, Practical Solutions for Education and Promotion of Environmental Health Field , sixth congress of Tehran Health Sciences, 2010
  - Mosaferi M, Hossein Pour Feizi M, Dastgiri S ,Kosha., Arsenic Presence in Drinking Water: A Case Study in East Azerbaijan Province, Twelfth National Conference on Environmental Health, Tehran, 2009
  - Mosaferi M, Mehri Badloo A., Taghipoor H. and et al., investigating Heterotrophic Bacteria Existence in Drinking Water of Tabriz, Twelfth National Conference on Environmental Health, Tehran, 2009.
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  - Mosaferi M , Jafari N, National Standard for Drinking Water: Implementation Problems and Need of Reviewing Content in Comparing with US EPA standard, First National Congress of the Standard, Development and Health, Kermanshah, 2007
  - Mosaferi M. Mesdaghinia, Study of Arsenic Removal by Adsorption Process, Third Congress of Civil Engineering, Tabriz, 2007
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  - Mosaferi M., Mesdaghinia AR., The Application of Nanotechnology in Environmental and Health Hazards, Ninth National Congress on Environmental Health, Isfahan, 2006
  - Mosaferi M., Aslhashemi. A., Terrorist Attacks on Water Treatment Plants: Methods of Water Treatment During Emergencies in the Place of consumption, Ninth National Congress on Environmental Health, Isfahan, 2006
  - Mosaferi M., Aslhashemi A., Food Safety: Heavy metals and semi-metals, Ninth International Congress of Nutrition, Iran, Tabriz, 2006.



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- Mosaferi M., Siah M., Hajizade Y., Important Aspects of the Chemical Quality of Water Used in the Food Industry: a Case Study of the Beverage Industry, Dairy and Cannery East Azerbaijan Province, Ninth International Congress of Nutrition, Iran, Tabriz, 2006
- Mosaferi M., Yunesian M., The Risk of Cancer by Arsenic in Drinking Water. First National Congress of the environment, Occupations and cancer in Iran, Tehran, 2006
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- Mosaferi M., Yunesian m., Mesdaghinia AR., Epidemiological Study on Health Effects of Arsenic in Water of Kurdistan Province. Congress of Epidemiology. Kerman , 2006
- Mosaferi M., Fahiminia m., Nabizadeh R., Evaluation of Solid Waste Management in Stone Cutting Factories of Iran ,case study: Qom, Eighth National Seminar on Environmental Health, Tehran, 2005
- Mosaferi M., Mesdaghinia. AR, Naseri S., Mahvi AH., Arsenic Removal from Drinking Water by Strengthened Activated Alumina, Eighth National Seminar on Environmental Health, Tehran, 2005
- Mosaferi M .Hashemi A., Chamani R., Controlling Environmental Pollution in a Cholera Epidemic, First National Congress of Emergency Medicine, Tehran, 2005
- Mosaferi M, Naseri S., Mahvi AH., Zolali SH., MTBE Existence in the Environment and Associated Health Concerns, Seventh National Seminar on Environmental Health, 2004,
- Mosaferi M. Siah M. , Fatollahzade F. Household Hazardous Waste Management and the Impact of Environmental Education in Promoting Environmental Culture, Environmental Culture Promotion First National Congress, Tehran, 2004
- Mosaferi M. Siah M., Zolali SH., Health and Human Toxicology Effects of Exposure to MTBE,
- First National Seminar on Air Pollution, Tehran, 2004,
- Mosaferi M, Mesdaghinia. AR, Naddafi K. Sludge Management of Municipal Wastewater Treatment Plants in IRAN, 2020, Fifth National Congress on Environmental Health , Kerman, 2003
- Mosaferi M ,Mahvi AH., Arsenic in Drinking Water :Concerns, Standard, Removal Methods, Fourth National Congress on Environmental Health, Yazd, 2001
- Mosaferi M ,Nasser S., The use of Biological Activated Carbon (BAC) in Water Treatment, Third National Congress of Environmental Health ,Kerman, 2000

## Dissertations: Supervisor and Advisor

### Supervisor

- Assessment of Environmental Impacts of Salt Extraction from Urmia Lake and heavy metal in sediments of lake
- A survey on knowledge and attitude of farmers of Ardebil about the application of pesticides for control of pest in potato farms with an emphasis on strengthening the role of Behvarz (Health server) role in reduction of health and environmental adverse effects
- Investigating the effect of geographical factors on the scattering of multiple sclerosis in Chaharmahal o Bakhtiari and East Azarbaijan provinces and a comparative study on the dietary habits of patients with Healthy subjects , (MSc Thesis, Medical Geography, Tabriz University, co-Supervisor)
- Investigation of the effective of climatic factors in the incidence of brucellosis and its zoning in East Azarbaijan province, (MSc Thesis, Medical Geography, Tabriz University, co-Supervisor)
- Study of rural waste management in Tabriz city and presenting appropriate management models with stakeholder participation in 2017, (MSc Thesis, Vistual Community HealthEducation, TBZMED)
- Study of the desirability of drinking water in the residential areas of eastern margin of Lake Urmia in terms of quality standards of salts and the possible impact of drying of Lake Urmia on it. (MSc Thesis, Environmental Health Engineering, TBZMED)
- Investigation of the temporal and spatial changes of suspended particles (PM<sub>10</sub> and PM<sub>2.5</sub> in the eastern margin of Urmia Lake using satellite imagery and assessment of the risk of respiratory and cardiovascular diseases, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Study of HSE status of tourism areas of Tabriz city and presenting management solutions to improve existing status
- Study of Cost - Effectiveness of Strategic Purchase of Environmental Health Services in Health Complexes of Tabriz
- Measurement of THMs in drinking water of Tabriz and its impact on related diseases (MSc Thesis, Environmental Health Engineering, TBZMED)
- Study of Exposure to Radon Exposure in Shabestar County (MSc Thesis, Environmental Health Engineering, TBZMED)
- Investigating of Water Quality in Drinking Water Sources and Distribution Networks of Ardabil and Providing Suitable Approaches for Removal of Arsenic (MSc Thesis, Environmental Health Engineering, TBZMED)
- Qualitative Study of Sahand Dam Water in Terms of Nutrients and Algae Growth in East Azerbaijan, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Modeling and Qualitative Analysis of Underground Drinking Water Resources Using PCA and GIS: A Case Study in Urmia Lake Neighboring Villages, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Investigating the Performance of Submerged Membrane System Electro-bioreactor (SMEBR) Pre-treatment with Anaerobic Anode Electrode in Municipal Wastewater Treatment, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Qualitative Modeling of Groundwater Resources of Tabriz, Herris, Bostanabad, Maraghe, Hashtroud, Miane and Charoymagh, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Removal of Arsenic from Water by Zero-valent Iron Nano-particles Stabilized by Starch, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Inactivating E. coli by Zero-valent Iron Nanoparticles Stabilized by Starch, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Investigating Arsenic in Drinking Water of Sabalan and Related Skin Disorders, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Investigating Environmental Pollution Caused by Arsenic Abandoned Mine in Valilu Herris (MSc Thesis, Geology, Payam-e-Noor Tabriz, co-Supervisor)

### Advisor

- Analysis of microbiological quality, heavy metals and current management of sludge in municipal sewage treatment plants of East Azerbaijan Province (MSc Thesis, Environmental Health Engineering, TBZMED)
- Risk assessment of arsenic in drinking water of Ardabil, (PhD thesis, Tehran University of Medical Sciences, Environmental Research Institute)
- Performance evaluation and proposed optimization of active sludge system in wastewater treatment unit of ABS unit, Tabriz Petrochemical Complex, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Investigating pollution of drinking water sources to pesticides in agriculture: Case study in Malekan villages, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Geographic Information System (GIS) in Congenital Abnormalities and Genetic: Case-control Study of congenital and Genetic Abnormalities in East Azerbaijan Province, (PhD thesis in Social Medicine, TBZMED)
- Investigating Geological and Medical of Arsenic in Ghorveh Bijar of Kurdistan, (Phd thesis of Geology, Shiraz University)
- Evaluating Environmental Health of Tabriz and Quantification of the Effects of Air Pollution (MSc Thesis, Environmental Health Engineering, Tehran University of Medical Sciences)

## Research Projects:

### Executive

- Evaluation of exposure to Radon in Shabestar county and its probable Health Effects, 2015 (Financial support by Tabriz University of Medical Sciences(TBZMED))
- Evaluation of Peroxide in Edible Oils Consumed in Tabriz and providing Recycling Solutions", 2015 (Financial support by TBZMED)
- Investigating Algae Growth and Eutrophication Status and its Management in Hashtrood Sahand Dam", 2014 (Financial support by TBZMED)
- Examination and Modeling of Drinking Water Quality in the Villages Around Urmia Lake, 2014 (Financial support by Rural Water and Wastewater Company of West Azerbaijan)
- Study of Sludge Management Status of Wastewater Treatment Plants in East Azerbaijan province, 2015 (Financial support by Environmental Protection Agency of the East Azerbaijan Province, 2014)
- Evaluation of Water Quality in Some Drinking Water Wells Within Ardebil and approaches for Removing Exceeded Levels of Arsenic and Nitrate " ,2013 (Financial support by Urban Water and Wastewater Company of Ardabil Province)
- Investigating the Performance of Submerged Membrane System Electro-bioreactor (SMEBR) Pre-treatment with Anaerobic Anode Electrode in Municipal Wastewater Treatment, 2013, (Financial support by TBZMED)
- Qualitative Modeling of Groundwater Resources of Tabriz, Herris, Bostanabad, Maraghe, Hashtrood, Miane and Charoymagh, 2011, (Financial support by Rural Water and Wastewater Company of East Azerbaijan)
- Removing Arsenic from Water by Zero-valent Iron Nano-particles Stabilized by Starch, 2012, (Financial support by TBZMED)
- Inactivating E. coli by Zero-valent Iron Nanoparticles Stabilized by Starch, 2012, (Financial support by TBZMED)
- Investigating Arsenic in Drinking Water of Sabalan and Skin Complications, 2011, (Financial support by TBZMED)
- Improving efficiency and optimizing energy consumption and determining the operating point of pumps and air compressor in Tabriz municipal wastewater treatment, 2011, (Financial support by Urban Water and wastewater Company of East Azerbaijan province)
- Comprehensive Investigating of Noise Pollution in Tabriz, 2009, (Financial support by TBZMED)
- Etiology of Fatal Accidents Resulting by Hazardous Chemicals Usages in the province of East Azerbaijan", 2006, (Financial support by the Governor of East Azerbaijan)



- Evaluation of Fluorosis Caused by Fluoride in Drinking Water of East Azerbaijan province, 2009, (Financial support by Science and Technology Park of East Azerbaijan Province)
- Investigating Health Effects of Arsenic in Charoymagh villages Water and Related Health Effects, 2006, (Financial support by Science and Technology Park of East Azerbaijan Province)
- Epidemiological Study of the Most Common Diseases in Mayan and Gopuz Villages of East Azerbaijan Province and its Association with Heavy Metals, 2006, (Financial support by Science and Technology Park of East Azerbaijan Province)
- Arsenic presence in Drinking Water of Hashtrud Villages", 2006, (Financial support by TBZMED)
- Evaluating Current Solid Waste Management According to Possible Presence of Heavy Metals in Tabriz Stone Cutting Factories in Order to Provide Appropriate and Practical Measures to Reduce Environmental Impacts, 2006, (Financial support by TBZMED)
- Chemical and Biological Water Quality Assessment in Food Industry to Enhance Food Safety of East Azerbaijan Province ",2006 (Financial support by Food and Nutrition Security Program Approved Project in Province of East Azerbaijan)
- Chemical and Biological Water Quality Assessment in the Beverage ,Dairy and Cannery Industrials of East Azerbaijan Province to Enhance Food Safety, 2006 (Financial support by Food and Nutrition Security Program Approved Project in Province of East Azerbaijan)
- Evaluation Stone Cutting Factories Waste and Construction Debris in Qom and Their Environmental Impacts , 2003, (Financial support by the Management and Planning Organization of Qom province)
- Luminance Measurement of Office Rooms and Sub transmission Posts of Regional Electricity Company, 2003, (Financial support by Regional Electricity Company of East Azerbaijan Province)

#### **Teammate and co-worker**

- Study of slinity in Gezelozan River and its modeling in Moshampa Reservoir Dam in Zanjan Province (ongoing project).
- Pesticide Residues Used in Agriculture in Drinking Water in villages of Malakan, 2011, (Financial support by Rural Water and wastewater Company of East Azerbaijan)
- Study of Electronic Waste Management Status of Iran and Providing Management Solutions Based on Environmental and Sanitation Principals" , 2009, (Financial support by TBZMED)
- Investigating Heavy Metals Existence in Soil, Water Used in Irrigation and Crops in Tabriz Suburb, 2008, (Financial support by TBZMED)
- Investigating Tabriz Medical Wastes, 2007, (Financial support by TBZMED)
- Arsenic Health Effects and its Removal Methods from Drinking Water, 2004, (Financial support by the Health Research Institute, Tehran University of Medical Sciences, PhD desertation)
- Evaluating Effluent Reuse of Food and Pharmaceutical Industries of Tehran, 1998, (Financial support by the Health Research Institute, Tehran University of Medical Sciences, MSc desertation)

#### **EIA (Environmental Impact Assessment) Projects (as Project Manager):**

- Health Impact Assessment of West Transmission Line of Ethylene from Miandoab to Tabriz Petrochemical Complex
- Health Impact Assessment of Tabriz Refinery Optimization (Sulfur Treatment Plant)
- Health Impact Assessment of Tabriz Refinery Optimization (Hydro De Sulfurization plant, Gasoline)
- Environmental Impact Assessment of Tabriz Refinery Optimization (Sulfur Treatment Plant)
- Environmental Impact Assessment of Tabriz Refinery Optimization (Hydro De Sulfurization plant, Diesel)
- Environmental Impact Assessment of Tabriz Refinery Optimization (Sulfur Granulation Unit)

- Environmental Impact Assessment of Tabriz Refinery Optimization (Oil Mixing Unit)
- Supervision on Implementation of Environmental consideration of Shahriyar Gasoline Unit, Tabriz Refinery
- Environmental Impact Assessment of Jolfa Industrial Town
- Environmental Impact Assessment of Bilverdi Industrial Town
- Environmental Impact Assessment of Steel Rolling of Nab Azerbaijan Complex
- Environmental Impact Assessment of Foolad Kaveh Tikmehdash (Steel Company)
- Environmental Impact Assessment of Bonab Steel Company, (Iron Melting)
- Environmental Impact Assessment of Khezerloo Steel Company, (Iron Melting)
- Environmental Impact Assessment of Miyaneh Steel Company
- Environmental Impact Assessment of Azerbaijan Steel Complex
- Environmental Impact Assessment of Propylene Production from Propane, Mehrpotrochemia Company
- Environmental Impact Assessment of Synthetic Rubber Production, Sadaf Asalooyeh Company