

Mohammad Mosaferi

Professor of Environmental Health

Faculty: Health, Tabriz University of Medical Sciences

Department: Environmental Health Engineering

Location: Tabriz(East Azerbaijan)

Main Expertise: Environmental Health Engineering

ORCID ID:orcid.org/0000-0001-6251-147X

ISI Research ID: L-6032-2017

Scopus Author ID: 23018932300

<https://scholar.google.com/citations?user=X0WeEEEEAAAJ&hl=en>

H-index: 21(Scopus), 29(Google scholar)

Contact Information:

mmosaferi@yahoo.com, mosaferim@tbzmed.ac.ir

Tel: +98 (41) 33355952, +989144148984

Fax: +98 (41) 33340634

Address: Department of Environmental Health Engineering, Health Faculty, Attar-e-Neyshaboori St. Tabriz, Iran

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, River Pollution
- Arsenic in the Environment, Health Effects, Remediation
- Environmental Epidemiology and geomedicine
- Wastewater Treatment
- Environmental and Health Impact Assessment
- Waste Management and Soil pollution
- 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:

- Provincial Distinguished Researcher in the Field of Industry Relations Research, 2024
- 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, Iran Water Resources Associations (WRA)
- Member, Iranian Association of Water and Wastewater (IRWWA)
- 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, Editorial Board of Journal of health research in community, Mazandaran University of Medical Sciences
- 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 form 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

- Full Professor, Department of Environmental Health Engineering, Faculty of Health, Tabriz University of Medical Sciences (2014)
- Associate Professor, Department of Environmental Health Engineering, Faculty of Health, Tabriz University of Medical Sciences (2011)
- Assistant Professor ,Department of Environmental Health Engineering, Faculty of Health, Tabriz University of Medical Sciences (2005)
- 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

Participation in International Training Course

- 8th International Course on Alternative Methods for Reduction of Pesticide Use 15-19 October 2018, INTERNATIONAL AGRICULTURAL RESEARCH AND TRAINING CENTER Camiikebir Mah. Cavuskoyulu Sok. No: 9, 35660, Menemen, Izmir (Turkey)

Publication (Book, in Persian)

- A guide for application of effluents for groundwater recharge, 2019
- Practical Waste Management, 2015
- Arsenic: Overview, Environmental Epidemiology, Diagnosis and Treatment of Health Effects, 2008
- Introduction to Management of Food Industries Wastewater, 2002

Publication (Journal, in English)

- Farhad Ghayurdoost, Nasim Zolfaghari Firouzsalar, Sara Nikmaram, Neda Gilani, Mojtaba Damadipour, Alper Baba & Mohammad Mosaferi*, **Importance of Quality of Groundwater Resources in Transboundary River with Emphasis on Hydro-geochemical Properties, Case study: Aras Transboundary River (Northern Iran)**. Water Air Soil Pollut 236, 59 (2025). <https://doi.org/10.1007/s11270-024-07674-5>
- Mohammad Mosaferi, Sakine Shekoochyan, Ali Behnami, Ehsan Aghayani, Khaled Zoroufchi Benis, Houra Allaeiaea, Mojtaba Pourakbar, **A comprehensive review of cyclic activated sludge processes in wastewater treatment: Current perspectives and future challenges**, Sustainable Chemistry for the Environment, Volume 9, 2025,
- **Abbaszadeh, L., Maleki, N. soheili, Mosaferi, M., Asl Hashemi, A., & Safari, G. H. (2024). Evaluation of cumulative exposures to multiple pesticide residues in three characteristic fruits in the Northwest of Iran: a risk assessment using Monte Carlo Simulation.** Food Additives & Contaminants: Part A, 42(1), 40–58. <https://doi.org/10.1080/19440049.2024.2421182>
- Nemati-Mansour, S., Mohammadi, A., Babazadeh, B., Asgari Lajayer, B., Babaie, J., Nikniaz, L., & Mosaferi, M. (2024). **Explore of High Arsenic Levels in Agricultural Soils: Observations from Hashtroud County, Northwest of Iran. Soil and Sediment Contamination: An International Journal**, 1–22.
- Nemati-Mansour, S., Mosaferi, M.*, Babaie, J. et al. **Interplay of arsenic exposure and cigarette smoking on oxidative DNA damage in healthy males.** Environ Sci Eur 36, 86 (2024).
- Jahani Moghaddam, H., Mohammadi, A., Shakerkhatibi, M., Sabeti, Z. and Mosaferi, M., 2023. **Spatial trend and probabilistic health risk assessment of heavy metals, nitrate, and fluoride in groundwater resources, West Azerbaijan province, Iran.** Environmental Science and Pollution Research, pp.1-13.
- Parikhani, F., Atazadeh, E., Razeghi, J., Mosaferi, M. and Kulikovskiy, M., 2023. **Using Algal Indices to Assess the Ecological Condition of the Aras River, Northwestern Iran.** Journal of Marine Science and Engineering, 11(10), p.1867.
- Allahbakhshi M, Mahmoodi NM, Mosaferi M, Kazemian H. Amine-functionalized metal-organic framework/graphene oxide nanocomposite for the removal of Direct Red 23 from water. Inorganic Chemistry Communications. 2023 Jun 17:110943.
- Khosravi, Roghayeh, Sepideh Nemati Mansour, Jahangir Ekrami, and Mohammad Mosaferi. **"Health and ecological risks assessment of heavy metals and metalloids in surface sediments of Urmia Salt Lake, Northwest of Iran."** Environmental Monitoring and Assessment 195, no. 3 (2023): 1-15 .
- Sabzchi-Dehkharghani, Hamed, Hossein Samadi Kafil, Abolfazl Majnooni-Heris, Abbas Akbarzadeh, Rana Naderi-Ahranjani, Ahmad Fakherifard, Mohammad Mosaferi et al. **"Investigation of SARS-CoV-2 RNA contamination in water supply resources of Tabriz metropolitan during a peak of COVID-19 pandemic."** Sustainable Water Resources Management 9, no. 1 (2023): 21.
- Sabeti Z, Nosratnejad S, Mousavi M, Mosaferi M. **Assessment of electricity generation potential and economic analysis through different municipal solid waste management scenarios: a case study.** Biomass Conversion and Biorefinery. 2022 Nov 15:1-3.

- Allahbakhshi M, Mahmoodi NM, Mosaferi M, Kazemian H, Aslani H. **Synthesis of functionalized metal-organic framework metal-organic framework (MIL-53)/Chitosan for removing dye and pharmaceuticals. Surfaces and Interfaces.** 2022 Nov 14:102471.
- Hajar Feizi, Mohammad Taghi Sattari, Mohammad Mosaferi. **Classification of water turbidity and depth of Secchi disk using Convolutional neural network,** 2023 Environment and Water Engineering
- Feizi H, Sattari MT, Mosaferi M, Apaydin H. **An image-based deep learning model for water turbidity estimation in laboratory conditions.** International Journal of Environmental Science and Technology. 2022 Sep 20:1-2
- Rajabi A, Farajzadeh D, Dehghanzadeh R, Aslani H, Mousavi S, Mosaferi M, Dehghani MH, Asghari FB. **Characterization of antibiotic resistance genes and bacteria in a municipal water resource recovery facility.** Water Environment Research. 2022 Jul;94(7):e10750.
- Nemati-Mansour, S., Hudson-Edwards, K.A., Mohammadi, A., Asghari Jafarabadi, M. and Mosaferi, M. (Corresponding), 2022. **Environmental occurrence and health risk assessment of arsenic in Iran: a systematic review and Meta-analysis. Human and Ecological Risk Assessment: An International Journal,** pp.1-28.
- Fouladi Osgouei, H., Zarghami, M., Mosaferi, M. and Karimzadeh, S., 2022. **A novel analysis of critical water pollution in the transboundary Aras River using the Sentinel-2 satellite images and ANNs.** International Journal of Environmental Science and Technology, pp.1-16.
- Mosaferi, M., Gilani, N., Delfi, S., Ahmadpour, R. and Kumar Chattu, V., 2022. **Psychometric development and practical use of questionnaires designed to assess knowledge, attitude, and practice of women regarding the use of sanitizer at home to control coronavirus disease.** Environ. Health Eng. Manag.. 2022
- Shahmahdi, N., Ghoreishi, B., Aslani, H., Ghaffarifar, S., Khatibi, M.S., Mosaferi, M. and Shaghaghi, A., 2022. **Educational need assessment for empowering health and environmental specialists.**
- Safari, G.H., Salem, S. and Mosaferi, M., 2021. **Investigation on microbial quality of drinking water in rural areas of Mianeh and the role of Rural Water and Wastewater Company in improving its quality.** Journal of Environmental Science Studies, 6(4), pp.4159-4168.
- Ekrami, J., Nemati Mansour, S., Mosaferi, M. (Corresponding) and et al. **Environmental impact assessment of salt harvesting from the salt lakes.** J Environ Health Sci Engineer (2021). <https://doi.org/10.1007/s40201-020-00609-2>
- Mosaferi M., Asadi M., Aslani H., Mohammadi A., Abedi S., Nemati S., Maleki S., **Temporospatial variation and health risk assessment of trihalomethanes (THMs) in drinking water (northwest Iran),** Environmental Science and Pollution Research, 2020, DOI : 10.1007/s11356-020-11063-w
- S., Shahbazi H., Mosaferi M., Firuzi P., Aslani H., **Spatio-temporal variation of WQI, scaling and corrosion indices, and principal component analysis in rural areas of Marand, Iran,** Groundwater for Sustainable Development, 11(2020)100480
- S Delfi, M Mosaferi(Corresponding), MS Hassanvand, S Malek, **Investigation of aerosols pollution across the eastern basin of Urmia lake using satellite remote sensing data and HYSPLIT model,** Journal of Environmental Health Science and Engineering,(2019), 1-14
- L Heydarirad, M Mosaferi(Corresponding), M Pourakbar, N Esmailzadeh, S Maleki , **Groundwater salinity and quality assessment using multivariate statistical and hydrogeochemical analysis along the Urmia Lake coastal in Azarshahr plain, North West of Iran,** Environmental Earth Sciences (2019); 78 (24), 670
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- Mosaferi M., Jahani Moghaddam H., Shaker Khatibi M., Esmat Saatloo M., Nemati Mansour S., Nazmara S., **Spatial variation and quantitative screening level assessment of human risk from boron exposure in groundwater resources of western edge of the Lake Urmia, Iran**, international journal of environmental health research, 2019, <https://doi.org/10.1080/09603123.2019.1590539>
- Asgari Lajayer B., Najafi N., Moghiseh E., Mosaferi M., Hadian J., **Effects of Gamma Irradiated and Non-Irradiated Sewage Sludge on Growth Characteristics, Leaf Chlorophyll Index, and Macronutrients Concentrations in Basil**, Journal of Soil Science and Plant Nutrition, 2019, 19:580–591, <https://doi.org/10.1007/s42729-019-00057-4>
- Asgari Lajayer B., Najafi N., Moghiseh E., Mosaferi M., Hadian J., **Micronutrient and heavy metal concentrations in basil plant cultivated on irradiated and non-irradiated sewage sludge-treated soil and evaluation of human health risk**, Regulatory Toxicology and Pharmacology 104 (2019) 141–150
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- 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**, Environ. health eng. manag. 2018, 5(3): 159-166
- Asgari BL, Najaf N., Moghiseh E., Mosaferi M., Hadian J. **Removal of heavy metals (Cu²⁺ and Cd²⁺) from efluent using gamma irradiation, titanium dioxide nanoparticles and methanol**, Journal of Nanostructure in Chemistry (2018) 8:483–496
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- 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>
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- 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
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- 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
- Amir Mohammadi, Sepideh Nemati, Mohammad Mosaferi, Ali Abdollahnejhad, Mohammad Almasian, Amir Sheikhmohammadi. Predicting the capability of carboxymethyl cellulose-stabilized iron nanoparticles for the remediation of arsenite from water using the response surface methodology (RSM) model: Modeling and optimization, *Journal of Contaminant Hydrology* 203 (2017) 85–92
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 - 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 Ghazikali M., Mosaferi M., Gholam Hossein Safari, Jalil Jaafari. **Effect of exposure to O₃, NO₂, and SO₂ 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
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 - 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
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 - 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**

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- 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.
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Publication (Journal, in Persian (Domestic))

- Mosaferi M, Yahyazadeh J, Mohammadian Y, Moshtaghi F. Investigating the types and amounts of pesticides used in agriculture in the East Azerbaijan province. ijhe 2024; 17 (2) :325-342
- Babaei, M., Sattari, M.T., Nikmaram, S., Gholami, H., Masoumi, F., Pirhayati, M. and Mosaferi, M., 2024. Evaluation of water quality changes in Aras border river downstream and upstream of Khodaafarin Dam using water quality indicators. Iranian Journal of Soil and Water Research.
- Ghayurdoost, F., Mansour, S.N., Firouzsalar, N.Z., Gilani, N. and Mosaferi, M., 2024. Investigating and Evaluating the Requirement for Development of Universities and Research-Educational Centers of Environmental Health in Iran. Quarterly Journal of Management Strategies in Health System.
- Mosaferi M, Ghayurdoost F, Gilani N, Nemati Mansour S. Considerations for Revising the Educational Content of Environmental Health: a Survey of Professors in the Field. Journal of health research in community. 2024 Jan 10;9(4):1-3.
- Mosaferi M, Ghayurdoost F, Dehghanzadeh R, Aslani H, Nemati Mansour S, Gilani N. The necessity of community-oriented and future-oriented revision in the educational content of the field of environmental health from the point of view of the beneficiaries (graduates and students). Iranian Journal of Health and Environment. 2023 Jun 10;16(1):149-74.
- Riazati A, Nabi Bidhendi G, Mehrdadi N, Mosaferi M. Investigating the Nexus of Carbon and Energy in the Sludge Digestion Unit and Power Plant of South Tehran Wastewater Treatment Plant. Journal of Water and Wastewater; Ab va Fazilab (in persian). 2023 Oct 23;34(4):80-96.
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- Feizi H, Sattari MT, Mosaferi M. Classification of Water Turbidity and Depth of Secchi Disk using Convolutional Neural Network. Environment and Water Engineering. 2023 Jun 22;9(2):211-24.
- 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
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- 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
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- 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.
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Dissertations: Supervisor and Advisor

Supervisor

- Quantity and quality of consumed pesticides and determination of knowledge and attitude of experts, sellers and farmers respect to the health effects of pesticide consumption in the East Azerbaijan province, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Investigating strategies to strengthen the role of health care providers in waste management in the villages of Maku (MSc Thesis, Community Based Health Education, TBZMED)
- The appropriateness check of educational packages on the needs of rural environmental health in order to improve the capabilities of health care providers (Case study: Mianeh), (MSc Thesis, Community Based Health Education, TBZMED)
- Assessment of Environmental Impacts of Salt Extraction from Urmia Lake and heavy metal in sediments of lake, (MSc Thesis, Environmental Health Engineering, TBZMED)
- 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, (MSc Thesis, Community Based Health Education, TBZMED)
- 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 (PM₁₀ and PM_{2.5} 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 Hennis (MSc Thesis, Geology, Payam-e-Noor Tabriz, co-Supervisor)

Advisor

- Application of iron waste catalyzed ozonation for inactivation and destruction of antibiotic resistance bacteria (ARBs) and genes (ARGs) present in municipal wastewater, (PhD Thesis, Environmental Health Engineering, TBZMED)
- Determination of concentration of trihalomethanes (THMs) and haloacetic acids (HAAs) in drinking water supply system of Urmia city in a over year round (MSc Thesis, Environmental Health Engineering, TBZMED)
- Health impact assessment of transport and discharge of municipal wastewater treatment plants effluents to Lake Urmia, (MSc Thesis, Environmental Health Engineering, TBZMED)
- Survey on environmental aspects of scrap car management and disposal in Iran, (MSc Thesis, Solid Waste Management, TBZMED)
- Evaluation of microbial quality of drinking water in Mianeh rural areas and determination of corrective actions of rural health workers and technicians to improve water quality, (MSc Thesis, Community Based Health Education, TBZMED)
- Optimizing the Household Solid Wastes Separation Plan at Source in Tabriz: an Advocacy-based Intervention, (PhD Thesis, Health Education and Promotion, TBZMED)
- 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

- Health and ecological risk assessment of possible exposure to heavy metals and metalloids in surface sediments of Urmia Lake
- 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, Hashtrud, 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 form Propane, Mehrpotrochemia Company
- Environmental Impact Assessment of Synthetic Rubber Production, Sadaf Asaloooyeh Company