



Curriculum Vitae

Mohammad Reza Shooshtarian

Department of Environmental Health Engineering

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Profile

Date of Birth: 23 March 1989

Sex: Male

Place of Birth: Shiraz, Islamic Republic of Iran

SCOPUS H-index: 2

Scholar H-index: 3

ORCID ID: 0000-0001-8127-8490

Education

Master's Degree, Environmental Health Engineering

Sep 2016

Shiraz University of Medical Sciences, Shiraz, Iran

Thesis title:

Water Quality Index Modification by Using Multi- Criteria Group Fuzzy Decision-Making Approach: A Case Study of Drinking Water Wells in Shiraz, Iran

Bachelor's Degree, Environmental Health Engineering

Feb 2013

Shiraz University of Medical Sciences, Shiraz, Iran

Academic Position & Responsibilities

Faculty member

Nov 2017 to ongoing

Academic ranking: Instructor

Responsibilities:

- Head of Department
- Head of Student Research Committee (School of Health)

- Member of the university's Research Council
- Delegate of the University in Larestan Department of Environmental Protection.
- Lecturer
- Researcher

Research Interests

- Water Quality Modeling and Assessment
- Application of Fuzzy Theory and Decision support Systems in Environmental Domains
- Water and Waste Water Treatment Technologies and Optimization
- Application of Modeling in Environmental Engineering
- Environmental Indexing and Assessment
- Interdisciplinary Approaches of finding the Interactions between Human Health and Environment

Honors

- **Quintessential University Researcher**
Larestan University of Medical Sciences, (Nov 2018)
- **Quintessential University Professor**
Larestan University of Medical Sciences, (June 2018)
- **Quintessential University Student**
Shiraz University of Medical Sciences, (July 2013)

Membership

Journal of Marine Biology and Aquatic Research (as an Editorial Board)

July 2018 to ongoing

Journal Publications

1. Jorfi, S., M. Shooshtarian, and S. Pourfadakari, *Decontamination of cadmium from aqueous solutions using zeolite decorated by Fe₃O₄ nanoparticles: adsorption modeling and thermodynamic studies*. International Journal of Environmental Science and Technology, 2019: p. 1-14.
2. Shahsavani, S., et al., *An Ontology-Based Approach for Modeling the Heavy Metals' Temporal and Spatial Variations in Groundwater Resources by Using Fuzzy Multi-Criteria Group Decision-Making Models and Geographical Information System*. Desalination and Water Treatment, 2018. **136**: p. 259-267.
3. Baghapour, M.A., et al., *A computer-based approach for data analyzing in hospital's health-care waste management sector by developing an index using consensus-based fuzzy multi-criteria group decision-making models*. International journal of medical informatics, 2018. **118**: p. 5-15.
4. Shooshtarian, M.R., et al., *Land use change and conversion effects on ground water quality trends: An integration of land change modeler in GIS and a new Ground Water Quality Index developed by fuzzy multi-criteria group decision-making models*. Food and Chemical Toxicology, 2018. **114**: p. 204-214.
5. Baghapour, M.A., M.R. Shooshtarian, and B. Djahed, *A survey of attitudes and acceptance of wastewater reuse in Iran: Shiraz City as a case study*. Journal of Water Reuse and Desalination, 2017. **7**(4): p. 511-519.
6. Baghapour, M.A., et al., *A Survey on Temporal Changes of Drinking Water Quality in Urban Areas Using Iran Resources Water Quality Index and Statistical Analysis: A Case Study of Shiraz, Iran, 2011-2015*. Journal of Health Sciences and Surveillance System, 2018. **5**(3): p. 107-115.
7. Baghapour, M.A. and M.R. Shooshtarian, *Extending a consensus-based Fuzzy Ordered Weighting Average (FOWA) model in new water quality indices*. Iranian Journal of Health, Safety and Environment, 2017. **4**(4): p. 824-834.
8. Baghapour, M.A. and M.R. Shooshtarian, *Assessment of groundwater quality for drinking purposes using Water Quality Index (WQI) in Shiraz, Iran (2011 to 2015)*. Iranian Journal of Health, Safety and Environment, 2018. **5**(1): p. 888-893.

Selected Conference Articles

1. Baghapour MA, Moeini Z, Shooshtarian MR. A Survey on Temporal Changes of Groundwater Quality in Shiraz by Using Iran Resources Water Quality Index (IRWQI) and Statistical Analysis. The 2nd International and 20th National Conference on Environmental Health and Sustainable Development; November 28-30; Yazd, Iran2017.
2. Baghapour MA, Moeini ZM, Djahed B, Zare MR, Shooshtarian MR. The Effect of Educational Intervention on Enhancing Citizens' Willingness to Use Treated Wastewater, Case Study in Shiraz, 2017. The International Conference on Society and Environment; September 02; Tehran, Iran2018.
3. Baghapour MA, Shooshtarian MR, Dehghanifard S, Sefidkar R. Recognition and Prioritization of Influencing Criteria in Health-Care Waste Management Using Fuzzy Multi-Criteria Group Decision-Making Models. The 6th National Conference on Energy and Environmental Management; December 22; The Department of Environment, Tehran, Iran2016.
4. Baghapour MA, Shooshtarian MR, Javaheri MR, Dehghanifard S, Sefidkar R. Weighting the Solid Waste Management Section in Health Inspection Checklist of Hospitals Using Fuzzy Group Decision Making Models. 18th National Conference on Environmental Health; November; Iran, Shiraz2015.
5. Baghapour MA, Shooshtarian MR, Zarghami M. The Role of Water Resources Management in Development of Megacities: A Case Study of Shiraz, Iran. The 2nd National Conference on the Management of Megacities with Reference to Environment; November 14-16; The Department of Environment, Tehran, Iran2016.
6. Baghapour MA, Zarghami M, Shooshtarian MR. Analyzing the Effect of Environmental Parameters on Citizens' Health: An illustrative survey on Drinking Water Quality in Shiraz Using National Sanitation Foundation Water Quality Index (NSFWQI). The 1st International Conference on Social Studies on Health for Students; December 21-23; Shiraz, Iran2016.
7. Derakhshan Z, Faramarziyan M, Daneshvar S, Shooshtarian MR. A Survey on Water Quality Parameters on Drinking Water in Shiraz in 2012. The 2nd National Conference on Environmental Protection and Planning; August 15; Hamedan University, Hamedan, Iran2013.
8. Rayanpour R, Shooshtarian MR, Ghasemi S, Rahmati R, Hosseini F. A Survey on the Attitude of Citizens towards Traditional Medicine: A Case study of Evaz District, Iran in 2018. The 2nd International Congress on Social Studies on Health; 2-3 January; Iran, Tehran2019.
9. Rayanpour R, Shooshtarian MR, Hosseini F, Ghasemi RRS. Assessing the Health Literacy of Citizens about Traditional Medicine: A Case Study of Evaz District, Iran in 2018. The 2nd International Congress on Social Studies on Health; 2-3 January; Iran, Tehran2019.

Research Projects

1. Selecting The Most Suitable Site for Locating the Air Quality Control Stations Using Fuzzy Decision Support Systems and GIS, Shiraz University of Medical Sciences (In progress)
2. Extending a New Air Quality Index Using Fuzzy Decision Support Systems, Shiraz University of Medical Sciences (In progress)
3. Extending a New Water Quality Index Using Fuzzy Multi-Criteria Group Decision-Making Models, Shiraz University of Medical Sciences (Accomplished)
4. Presenting a New Approach for Waste Management in Hospitals by Using Fuzzy Decision Support Systems, Shiraz University of Medical Sciences (Accomplished)
5. An Index for Environmental Health Inspection in Swimming Pools, Shiraz University of Medical Sciences (Accomplished)
6. A Survey on the Effect of Educational Intervention on Citizens' Attitude toward Using the Recycled Water, Shiraz University of Medical Sciences (Accomplished)

Article Reviews

1. *QUANTITATIVE WATER MANAGEMENT IN RABAT, SALE, AND TIMISOARA DRINKING WATER SYSTEM, Environmental Engineering and Management Journal, (April 2019).*
2. *Aspects of Shallow Groundwater Quality in Calabar South, Cross River State, Nigeria, Journal of Environmental and Toxicological Studies, (Dec 2018).*
3. *Effect of measurement of total organic carbon compounds to improve water quality in the shortest time, Journal of Public Health Hygiene and Safety (JPHHS), (Sep 2018).*

4. *Physical Development and Renal Functions in Adolescents Consuming Drinking Water with High Content of Vital Cations, Journal of Environmental and Toxicological Studies*, (Aug, 2018).
5. *MAPPING WATER QUALITY BY USING GEOSTATISTICAL METHOD (MARMARIS BAY,MUGLA, TURKEY)*, Journal of Marine Biology and Aquatic Research , (July 2018).

Conferences Duties

- **The 3rd Intra University Seminar on Health Promotion in Tropical Regions**
Administrative secretary of the seminar
Larestan University of Medical Sciences, Larestan, Iran (May 2019)
- **The 2nd Intra University Seminar on Health Promotion in Tropical Regions**
Administrative secretary of the seminar
Larestan University of Medical Sciences, Larestan, Iran, (Mar 2018)
- **The 18th National Conference on Environmental Health**
Secretary of workshops' committee
Shiraz University of Medical Sciences, Shiraz, Iran (Dec 2015)

Attendance in Webinar

1. Membrane Activity in North America (Feb 05, 2019)
2. Peer Reviewing with Confidence with the Publons Academy (Sep 13, 2018)
3. Pipeline condition assessment: What works best? (July 25, 2018)

Certificate

- **DBA (Doctorate of Business Management)**
Oxford Cert of England, 2018
- **Environmental Management Internal Audit ISO 14001:2004**
TUV-Rheinland, 2011
- **HSE Management System**
TUV-Rheinland, 2010

University Courses & Workshops

- Wastewater Treatment Plant Design
- Water Distribution System Design
- Waste Water Collection System Design
- Industrial Drawing
- Fluid Mechanics
- Environmental Health for Public Health Practitioners
- Professional English for Health Practitioners