

Sultan Qaboos University  
College of Engineering



جامعة السلطان قابوس  
كلية الهندسة



## CURRICULUM VITAE (CV)



# Dr. Zeinab Yavari

---

Assistant Professor in Architectural Engineering  
Civil and Architectural Engineering Department  
Sultan Qaboos University

Not:

SQU = Sultan Qaboos University, Muscat, Oman.

<b><u>GENERAL INFORMATION</u></b>	
<b>Name</b>	ZEINAB YAVARI
<b>Date of Birth</b>	1985
<b>Place of Birth</b>	Islamic Republic of Iran
<b>Current position</b>	Assistant Professor in Architectural Engineering at Sultan Qaboos University, Muscat, Oman
<b>College and Department</b>	College of Engineering, Department of Civil & Architectural Engineering (CAED)
<b>Years of teaching and research experience</b>	10+ years (Iran, Oman)
<b>Telephone No.</b>	+968 2414 7352
<b>Mobile/GSM No.</b>	+968 72745895
<b>E-mail</b>	<a href="mailto:z.yavari@squ.edu.om">z.yavari@squ.edu.om</a> / <a href="mailto:zyavari2412@gmail.com">zyavari2412@gmail.com</a>
<b>Address</b>	Department of Civil and Architectural Engineering Sultan Qaboos Uni., P.O. Box 33, Al-Khod 123, Muscat, Oman

### **Honors and awards**

- Hafiz of Quran
- Elected student in Ph.D. Ministry of health (University level) 2015
- Elected student in Ph.D. Ministry of health (University level) 2016
- Elected student in Ph.D. Ministry of health (University level) 2017
- Elected professor at ministry of health (University level) 2012
- Top presentation of article in international conference, 2010
- Ranked top talent in M.Sc. program without entrance national exam at ministry of health, 2009
- Ranked first in M.Sc. Program Ministry of health (University level) 2008
- Ranked first in B.Sc. Ministry of health (University level), 2007
- Ranked first in Quran competition at ministry of Health (2008, 2010, 2013, 2015)
- Active member of the Red Crescent Society

## **EDUCATION AND EMPLOYMENT INFORMATION**

### **Education:**

- 2017, Ph.D. Environmental Health Engineering, Isfahan University of Medical Sciences. Thesis title “Evaluation the removal of endocrine steroid hormones using moving bed bio erector (MBBR)”.
- 2011, M.Sc. Environmental Health engineering, Tehran University of Medical Sciences, Thesis title “Feasibility of Microbial Fuel Cell (MFC) for electricity generation from synthetic wastewater”.

### **Employment:**

- *Assistant professor*, Department of Civil and architectural, College of engineering, Sultan Qaboos University, Sultanate of Oman. 2021-on going
- *Quality Assurance and Accreditation Committee (CE Program)*, Department of Civil and architectural, College of engineering, Sultan Qaboos University, Sultanate of Oman. 2021-on going
- *Postgraduate Studies & Research Committee (Environmental Engineering Coordinator)*, Department of Civil and architectural, College of engineering, Sultan Qaboos University, Sultanate of Oman. 2021-on going
- *Publication/Web Committee*, Department of Civil and architectural, College of engineering, Sultan Qaboos University, Sultanate of Oman. 2021-on going
- *Seminars and Publicity committee (Coordinator)*, Department of Civil and architectural, College of engineering, Sultan Qaboos University, Sultanate of Oman. 2021-2022
- *Examination + Appeal Committee (Coordinator)*, Department of Civil and architectural, College of engineering, Sultan Qaboos University, Sultanate of Oman. 2022-2023

- ***Assistant professor***, Department of environmental health, School of health, Shahid Sadoughi University of medical sciences. Yazd. IRAN.2018-2021
- ***Deputy of vice chancellor***, school of Abarkouh Para medicine , Shahid Sadoughi University of Medical Sciences ,Yazd, Iran.2019-2021
- ***Representative of Vice chancellor***. school of Abarkouh Para medicine , Shahid Sadoughi University of Medical Sciences ,Yazd, Iran.2019-2021
- ***Head of department of environmental health engineering***, School of Abarkouh Para medicine, Shahid Sadoughi University of medical sciences. 2019-2021
- ***Electronic log book Committee***, Shahid Sadoughi University of Medical Sciences ,Yazd, Iran.2019-2021
- ***Education and Graduate Committee***, Shahid Sadoughi University of medical sciences. 2019-2021
- ***Online and Electronic Examination Committee***, Shahid Sadoughi University of medical sciences. 2019-2021
- ***Lecturer***, Qom University of medical sciences, 2011-2013.
- ***Quranic consultor***. Qom university of medical sciences, 2011-2012

## **TEACHING AND LEARNING**

### **Active Participation in University Teaching & Learning**

#### ***Teaching***

##### **❖ *Sultan Qaboos University (OMAN)***

<b>Code Course</b>	<b>Title</b>	<b>Level</b>	<b>Semester</b>
CIVL5186	Water and wastewater management	<b>Undergraduate</b>	<b>FL2021,FL2022</b>
CIVL4136	Environmental Engineering I	<b>Undergraduate</b>	<b>FL2021,SP2022,FL2022</b>
CIVL5326	Environmental Engineering II	<b>Undergraduate</b>	<b>SP2022,SP2023</b>
CIVL6760	Solid waste management	<b>Postgraduate</b>	<b>SP2022,SP2023</b>
CIVL6750	Air pollution control engineering	<b>Postgraduate</b>	<b>FL2022</b>
CIVL6780	Contaminant transport processes	<b>Postgraduate</b>	<b>SP2023</b>

##### **❖ *Shahid Sadoughi University of medical sciences (IRAN)***

Water treatment	Modeling in environmental health
Process for water and waste water treatment	Industrial wastewater
Fluid mechanics	Disinfections and application
Hydraulics	Environmental chemistry
Medical literatures search	Wastewater treatment
Research methodology	Air pollution

##### **❖ *Qom University of Medical Sciences (IRAN)***

Process for water and waste water treatment	Disinfections and application
Fluid mechanics	Environmental chemistry
Water treatment	Wastewater treatment

## *Academic Supervision*

### *❖ Main supervisor of MSc theses*

1. **Title:** An integrated approach to enhance the desalination process: Coupling solar cell process with microbial desalination cells. **Student name:** Fatemah Al-Qais. Completed, Fall 2022
2. **Title:** Degradation of sulfamethoxazole using UV-LED/chlorine followed by activated carbon adsorption: Optimization and Modeling by Artificial Intelligent. **Student name:** Marwa Al Mahdouri. Completed, Fall 2022
3. **Title:** The Removal Efficiency and Risk Analysis of Microplastics in Wastewater Treatment Plants in Oman. **Student name:** Abrar Mohammed Saif Al-Aamri. Completed, Spring 2023
4. **Title:** Degradation of Amoxicillin and Ibuprofen by Activated Carbon and Potassium Persulfate from Wastewater: RSM and Machine learning. **Student name:** Maysoun Abu-Amra. Completed, Spring 2023
5. **Title:** Sono-electro-Fenton process enhanced by persulfate for highly efficient of Sulfamethoxazole from aqueous solutions: Process optimization, kinetic and mechanism. **Student name:** Eman Muhye Adeen, In progress
6. **Title:** Monitoring and detection of priority pollutants in water resources: A case study Wadi Dayqah Dam. **Student name:** Tasnim Al Shaqsi. In progress
7. **Title:** Biofuel production from food waste biomass and application of machine learning for process management. **Student name:** Fathiya Al Yahyai. In progress

### *❖ Co-supervisor of MSc theses:*

1. **Title:** Improving grit blasting waste management by six-sigma method - A case for the oil and gas industries. **Student name:** Ahmed Al Abri. Completed, Fall 2022
2. **Title:** Influence of enzyme on biogas generation using conductive material assisted thermophilic anaerobic digester. **Student name:** Izdehar Al Lawati. In progress
3. **Title:** Investigation of Residual Chlorine Dissipation in Drinking Water Systems. **Student name:** Arwa Al Sukaiti. In progress

❖ *Co-supervisor of Ph.D. theses:*

1. **Title:** Microbial electro synthesis as novel biotechnology for CO<sub>2</sub> sequestration and renewable resource recovery for zero carbon emission. **Student name:** Noor Al Balushi. In progress

❖ *Students and Peer Evaluation:*

- Constantly excellent student evaluation. Average in the last evaluated three years (all courses are valid): “This instructor is a good teacher”: 3.6/4; “Overall Score”: 3.6/4.
- Peer review of Teaching
- Examiner for Civil Program Cooperative Training (CIVL5002) students
- Examiner for Research project I (CIVL5993)

❖ *Introducing and Developing New Courses*

*Postgraduate Courses:*

- Special topic in Environmental Engineering, CIVL 6700 (Advanced Analytical Techniques for Environmental Applications), MSc level, Fall2023

*Program(s) Coordinator*

- Environmental Engineering program Coordinator- Academic year:2021-2022
- Environmental Engineering program Coordinator- Academic year:2022-2023

*Curricula revision*

- Contribution on the Curricula Modernizing Committee: Bench Marking Sub-committee (Environmental Engineering Program), CAED, SQU, spring 2023.

❖ *Development of Delivery of Teaching*

1. *Using technology in teaching*

- ❖ Online textbooks
- ❖ live video streaming platforms (from YouTube to streaming public events)
- ❖ Multi Media Lessons (Podcasts, Recorded lectures, Digital take-home lessons)
- ❖ Learning Management Systems (Moodle, Google Meet)
- ❖ Power Points
- ❖ Software (Excel, MATLAB)

## 2. ***Diversity in teaching***

- Active Learning Techniques:
- Discussion
- Problem solving using real data
- Brain writing and brainstorming
- Science Experiments
- Group Projects
- The one-minute paper (for postgraduate students)
- Debates (for postgraduate students)

### ❖ ***Attendance at training courses that are related to teaching***

- Attendance in Workshop “***Course projects: practical, Comprehensive and fair***”. (CETL), SQU, 15 March 2023.
- Attendance in “***Delivering Results with JoVE***” SQU, 9 Feb 2023.
- Attendance in Workshop “***Integrated course design through active learning***”. (CETL), SQU, September 6-24, 2022.
- Attendance in Workshop “***Start setting up the Course, add learning resources and add communication activities***”. (CET). SQU, spring 2022.
- Attendance in “***New Faculty Orientation Program***”. (CETL), SQU, 13-15 September, 2021.
- Attendance in Workshop “***Peer review Assessment in teaching: College of Nursing experience***”. (CETL), SQU, 16 December. 2021.
- Attendance in Workshop “***Promoting active learning through student assessments tools and strategies***”. (CETL), SQU, 11 November 2021.
- Attendance in Workshop “***Webinar on the essentials of Academic Advising***”. SQU, 11 November 2021.
- Attendance in Workshop “***Active learning: the key to student learning***”. (CETL), SQU, 23 September 2021

### ❖ ***Additional Evidence of Excellence in Teaching***

1. Peer reviewer of Teaching for a colleague, AREN5403, SP2022
2. Examiner for Civil Program Cooperative Training (CIVL5002) 3 students, Fall2021, Fall2022



3. Examiner for Research project I (CIVL5993), Fall 2022
4. Examiner for Research project I (CIVL5994), Spring 2023

❖ ***Participating in/Organizing Scientific Trips for Students***

1. Organizing and conducting field trip for Al Amerat landfill, SP2023, CIVL5326 (Environmental Engineering II), CIVL6760 (Solid waste management)
2. Organizing and conducting field trip for Wadi Dayqah Dam SP2023, CIVL6780(Contaminant Transport Processes)
3. Organizing and conducting field trip for Composting plant, SP2023, CIVL5326(Environmental Engineering II), CIVL6760 (Solid waste management)
4. Organizing and conducting field trip for Healthcare waste site, SP2023, CIVL5326(Environmental Engineering II), CIVL6760 (Solid waste management)
5. Organizing and conducting field trip for Al Amerat landfill, SP2022, CIVL5326 (Environmental Engineering II), CIVL6760 (Solid waste management)
6. Organizing and conducting field trip Seeb STP, FL2022, CIVL5186(Water and wastewater management)
7. Organizing and conducting field trip Bushar STP, FL2022, CIVL5186(Water and wastewater management)
8. Organizing and conducting field trip Seeb STP, FL2021, CIVL5186(Water and wastewater management)
9. Organizing and attending field trip Bushar STP FL2021, CIVL5186(Water and wastewater management)

❖ ***Student Academic Advising***

***Number of Advisees for each academic year.***

- 9 Students for academic year 2021-2022
- 14 students for academic year 2022-2023

## RESEARCH

### Published Research in Refereed Journals

1. Ehsanifar M, Rafati M, **Yavari Z**. “Indoor air pollution and behavioral factors affecting to COVID-19 transition”. Journal of Community Med Health Solutions. 2022; 3: 016-020 .
2. Ehsanifar M, **Yavari Z**, Motaghedifar MR, Rezaei M. “Risk of activation of human viruses lurking in ambient following COVID-19 prevention supplies excessive use”. Journal of Community Med Health Solutions. 2022; 3: 011-015.
3. Mojtaba Ehsanifar, **Zeinab Yavari**, Mehravar Rafati. “Exposure to urban air pollution particulate matter: neurobehavioral alteration and hippocampal inflammation”. Environmental Science and Pollution Research. 2022. 29, 50856–50866.
4. Farzaneh Mohammadi, **Zeinab Yavari\***, Farideh Mohammadi, Somaye Rahimi. “Prediction the Performance of Full Scale Wastewater Treatment Plant with AB Process Using Artificial Neural Network and Genetic Algorithm”. International Journal of Environmental Health Engineering. 2022; 11:18.(**Corresponding Author**)
5. **Zeinab Yavari**, Farzaneh Mohammadi, Mohammad Mehdi Amin. “Determination the biochemical kinetics of natural and synthetic estrogens in moving bed Bioreactor”. International Journal of Environmental Health Engineering. 2021; 10; 4.
6. Farideh Mohammadi, Farzaneh Mohammadi, **Zeinab Yavari** “Characterization of the cylindrical electrospun Nano fibrous polysulfone membrane for hemodialysis with modelling approach” Medical & Biological Engineering & Computing. 2021; 59, 1629–1641.
7. Farzaneh Mohammadi, Hamidreza Pourzamani, Hossein Karimi, **Zeinab Yavari**. “Artificial neural network and logistic regression modelling to characterize COVID-19 infected patients in local areas of Iran” Biomedical Journal. 2021, 44, 3,304-316.
8. Determination the biochemical kinetics of natural and synthetic estrogens in moving bed Bioreactor. **Z Yavari**, F Mohammadi, MM Amin. International Journal of Environmental Health Engineering 10 (1), 4. 2021
9. Farzaneh Mohammadi, Bijan Bina, Hossein Karimi, Somayeh Rahimi, **Zeinab Yavari**. “Modeling and sensitivity analysis of the alkylphenols removal via moving bed biofilm reactor using artificial neural networks: Comparison of levenberg marquardt and particle swarm optimization training algorithm”. Biochemical Engineering Journal. 161, 15, 107685. 2020. (**Corresponding Author**)
10. Artificial neural network and logistic regression modelling to characterize COVID-19 infected patients in local areas of Iran. F Mohammadi, **Z Yavari.\*** H Karimi, M Mohammadi, M Mohammadi, .Biomedical journal. 2021(**Corresponding Author**)
11. Anxiety and Depression Following Diesel Exhaust Nano-Particles Exposure in Male and Female Mice, MB Mojtaba Ehsanifar, **Zeinab Yavari** , Mohammad Karimian. Journal of Neurophysiological and Neurological Disorders 101 2020
12. The occurrence, fate, and distribution of natural and synthetic hormones in different types of wastewater treatment plants in Iran. MM Amin, B Bina, A Ebrahimi, **Z Yavari\***, F Mohammadi, S Rahimi. Chinese Journal of Chemical Engineering 26 (5), 1132-1139. (**Corresponding Author**)

13. Dental caries prevalence among Schoolchildren in Urban and Rural areas of Qom Province, Central part of Iran. M Khazaei, AH Mahvi, RF Fard, H Izanloo, **Z Yavari**,\* HR Tashayoei Middle-East J Sci Res 18 (5), 584-91 22 2013
14. Biodegradation of natural and synthetic estrogens in moving bed bioreactor. MM Amin, B Bina, K Ebrahim, **Z Yavari**\*, F Mohammadi. Chinese Journal of Chemical Engineering 26 (2), 393-399 21 2018
15. Determination of 4-nonylphenol and 4-tert-octylphenol compounds in various types of wastewater and their removal rates in different treatment processes in nine wastewaters. B Bina, F Mohammadi, MM Amin, HR Pourzamani, **Z Yavari**.\* Chinese Journal of Chemical Engineering 26 (1), 183-190. 2018
16. Adsorption of EDTA from aqueous solution using HDTMA-modified zeolite. M Khazaei, MET Sillanpää, **Z Yavari**\*, M Savadkoobi, K Ghadiri, AH Mahvi. Middle-East J. Sci. Res 23 (9), 2232-2245. 2015
17. Artificial Neural Network Modeling of Cr(VI) Biosorption from Aqueous Solutions. Farzaneh Mohammadia , **Zeynab Yavaria** , Somaye Rahimia , and Majid Hashemib. Journal of Water Chemistry and Technology 41 (4), 219–227 5. 2019
18. Adsorption of lead from aqueous solution by modified beech sawdust. HR Tashauoei, S Hashemi, R Ardani, **Z Yavari**, M Asadi-Ghalhari. Journal of Safety, Environment, and Health Research 1 (1), 11-12016
19. Evaluation of the effects of AlkylPhenolic compounds on kinetic parameters in a moving bed biofilm reactor. F Mohammadi, B Bina, MM Amin, HR Pourzamani, **Z Yavari**, MR Shams. The Canadian Journal of Chemical Engineering 96 (8), 1762-1769 4 2018
20. Evaluation of the effects of AlkylPhenolic compounds on kinetic coefficients and biomass activity in MBBR by means of respirometric techniques. B Bina, F Mohammadi, MM Amin, HR Pourzamani, **Z Yavari**. Chinese journal of chemical engineering 26 (4), 822-829. 2018
21. Using Generation 3 Polyamidoamine Dendrimer as Adsorbent for the Removal of Pentavalent Arsenic from Aqueous Solutions. **Z Yavari**, MM Amin, H Izanloo, S Rahimi, F Mohamadi. Journal of Environmental Health and Sustainable Development 1 (1), 28-36 3 2016
22. Electricity generation from synthetic wastewater treatment in microbial fuel cell. **Z Yavari** , K Naddafi, H Izanloo, M Khazae, Qom University of Medical Sciences Journal 6 (424), 96-103,2,2013
23. Performance of Microbial Fuel Cell for Wastewater Treatment and Electricity Generation. MK **Z. Yavaria** \*, H. Izanlooa, K. Naddafib, H.R. Tashauoeic. International Journal of Renewable Energy Development 2 (2), 131-135 2
24. Upgrading the effluent quality of an aerated lagoon with horizontal roughing filtration. R Nabizadeh, K Naddafi, M Khazaei, RF Fard, H Izanloo, **Z Yavari**. Environment Protection Engineering 41 (3) 1 2015
25. Characterization of the cylindrical electrospun nanofibrous polysulfone membrane for hemodialysis with modelling approach. F Mohammadi, F Mohammadi, **Z Yavari**. Medical & Biological Engineering & Computing 59 (7), 1629-1641 2021

26. Application of artificial neural network (ANN) in Biosorption modeling of Chromium (VI) from aqueous solutions. F Mohammadi, S Rahimi, **Z Yavari**. Iranian Journal of Health and Environment 8 (4), 433-446 2016

## RESEARCH and Scholarship

### Research Project as **Principle Investigator (PI)/Co- Principle Investigator (Co-PI)**

No.	Title	Institution	Role	Year	Status
7.	Reservoir Water Quality Improvement Using Optimized Strategic Selective Withdrawal and Hypolimnetic Aeration Considering Climate Changes: A Case Study, Wadi Dayqah Dam, Oman	Sultan Qaboos university	CO-INVESTIGATORS	2021	In progress
10.	Sono-electro-Fenton process enhanced by persulfate for highly efficient of Sulfamethoxazole from aqueous solutions: kinetic and mechanism	Sultan Qaboos university	Fund Deanship (PI)	2021	Completed
12.	The effects of prenatal exposure to diesel engine exhaust particles on TLR2 and TLR4 expression in of adult male offspring hippocampus	Yazd university of medical sciences	Research project (PI)	2020	Completed
13.	Assessment the effect of air pollution caused by traffic on the level of anxiety and depression in adult mice	Yazd university of medical sciences	Research project (PI)	2020	Completed
14.	Investigating the effects of air pollution on oxidative stress and gene expression of inflammatory cytokines in the hippocampus of mice.	Yazd university of medical sciences	Research project (PI)	2020	Completed

15.	Optimization of MBBR reactor for removal efficiency of steroid hormones	Yazd university of medical sciences	Research project (PI)	2020	Completed
16.	Optimization and modeling of removal efficiency of Arsenic from aquatic water by PAMAM	Yazd university of medical sciences	Research project (PI)	2020	Completed
17.	Biodegradation of natural and synthetic estrogens in moving bed bioreactor	Isfahan university of medical sciences	Research project (PI)	2017	Completed
18.	Evaluation of the effects of AlkylPhenolic compounds on kinetic Parameters in Moving Bed Biofilm Reactor	Isfahan university of medical sciences	Research project (Co-PI)	2016	Completed
19.	Using Generation 3 Polyamidoamine Dendrimer (PAMAM G3) as adsorbent for the Removal of Pentavalent Arsenic from Aqueous Solutions	Isfahan university of medical sciences	Research project (PI)	2014	Completed
20.	Adsorption of EDTA from Aqueous Solution Using HDTMA-Modified Zeolite	Qom university of medical sciences	Research project (PI)	2013	Completed
21.	sorption of Lead from Aqueous Solution by Modified Beech Sawdust	Qom university of medical sciences	Research project (Co-PI)	2012	Completed
22.	Nitrate Removal from Water Using Granules Ferric Hydroxide Absorbent	Qom university of medical sciences	Research project (Co-PI)	2011	Completed
23.	Microbial Fuel Cell (MFC) for Energy generation and wastewater treatment	Tehran university of medical sciences	Research project (PI)	2010	Completed
24.	Biological quality of bottle of water	Tehran university of medical sciences	Research project (PI)	2009	Completed

Attendance at training courses that are related to teaching

---

**iii) Attendance at training courses that are related to teaching**

---

1. Attendance in Workshop “*Integrated course design through active learning*”. (CETL)
  2. Attendance in Workshop “*Peer review Assessment in teaching: College of Nursing experience*”. (CETL)
  3. Attendance in Workshop “*Active learning: the key to student learning*”. (CETL)
  4. Attendance in Workshop “*Promoting active learning through student assessments tools and strategies*”. (CETL)
  5. Attendance in Workshop “*Course projects: practical, Comprehensive and fair*”. (CETL)
  6. Attendance in Workshop “*Webinar on the essentials of Academic Advising*”.
  7. Attendance in Workshop “*Start setting up the Course, add learning resources and add communication activities*”. (CET)
  8. Attendance in “*JoVE webinar*”
-

### **Research interest**

- Microplastics (Detection, Extraction)
- Biological and chemical wastewater treatment
- Removal of micro pollutants from environment
- Endocrine disruptive compounds (EDCs)
- Moving bed bio reactor (MBBR)
- Modeling in Environmental Health engineering
- Microbial Fuel Cell (MFC)
- Microbial Desalination Cell (MDC)
- Solar cell
- Renewable energy
- Biotechnology & Biochemical
- Biogas and biofuel

### **Technical skill**

#### **Instrument**

- Gas chromatography followed with mass spectrometry (GC–MS)
- High Performance Liquid Chromatography (HPLC)
- **Atomic Absorption (AA) Spectrophotometer**
- **Inductively coupled plasma (ICP) Spectrophotometer**
- FTIR
- SEM
- Respirometer
- Spectrophotometer
- **UV-Visible spectroscopy**
- **Fluorescence Spectroscopy**
- D.R 5000
- polymerase chain reaction (PCR) (Preliminary)

#### **Microbial Analysis**

- Total Coliform (TC)
- Fecal Coliform (FC)
- Heterotrophic plate count (HPC)

#### **Physico-chemical**

- dispersive liquid-liquid micro extraction (DLLME)
- solid phase extraction (SPE)
- silylation of EDC
- Derivatisation of EDC
- Chemical Oxygen Demand (COD)
- Biochemical Oxygen Demand (BOD)
- Total Suspended Solids (TSS)

- Volatile Suspended Solids (VSS)
- Phenol
- Carbohydrate

**Microscopic Techniques:**

- Electronic microscop
- Light microscopy
- Fluorescent microscopy
- Stereomicroscopy

**Software**

- Microsoft Office
- MATLAB
- SPSS
- Mendely
- End Note
- GIS
- Water Gems
- EPANET
- Sewer CAD
- Auto CAD

**Reviewer**

- Water research
- Chemosphere
- Environmental pollution
- Science of the total environment
- Microchemical journal
- International Journal of Research and Innovation in Social Science (JRISS)
- Journal of chemical technology and biotechnology
- Journal of Water Process Engineering
- Journal of Health System Research
- International Journal of Environmental Health Engineering(IJEHE)
- Journal of Environmental Health and Sustainable Development
- Journal of Safety, Environment, and Health Research (JSEHR)
- Archive of Hygiene science

**language**

- Persian (native)
- English (good)
- French (moderate)



- Arabic (basic)

---

## References

- Professor Alireza Mesdaghinia, Department of environmental Health, School of public health, Tehran University of medical sciences.  
Email: [mesdaghinia@tums.ac.ir](mailto:mesdaghinia@tums.ac.ir)
- Professor Kazem Nddafi, Department of environmental Health, School of public health, Tehran University of medical sciences .  
Email: [Naddafi@tums.ac.ir](mailto:Naddafi@tums.ac.ir)
- Professor bijan bina, Department of environmental Health, School of public health, Isfahan University of medical sciences.  
Email: [bina@hlth.mui.ac.ir](mailto:bina@hlth.mui.ac.ir)
- Professor mohammad Mehdi Amin, Department of environmental Health, School of public health, Isfahan university of medical sciences .  
Email: [amin@hlth.ac.ir](mailto:amin@hlth.ac.ir)
- Professor Mahnaz Nikaein, Department of environmental Health, School of public health, Isfahan University of medical sciences .  
Email: [Nikaeen@hlth.ac.ir](mailto:Nikaeen@hlth.ac.ir)

Conferences

1. **Zeinab Yavari**, Abrar Al Amri. Mohammad Reza Nikoo “*The Occurrence and Detection of Micro Plastics: Different Treatment Technologies Adopted for Wastewater Treatment Plants in Oman*” “International Summit on Environmental Science and Engineering (**Invited Speaker**). June 2023. France
  2. **Zeinab Yavari**, Abrar Al Amri. Mohammad Reza Nikoo “*Towards Air Quality Improvement via Various Renewable Energy Approaches*” International Conference on Air Pollution and Climate Change (**Oral Presentation**). Jan 2023. Oman
  3. **Zeinab Yavari**, Fatemah Yousef Ghaleb Al-Qais, Mohammad Reza Nikoo. “*An Integrated Approach to Enhance the Desalination Process: Coupling Solar Cell Desalination with Microbial Desalination Cell*”. International Conference on Air Pollution and Climate Change (**Oral Presentation**). Jan 2023. Oman
  4. **Zeinab Yavari**, Farzaneh Mohammadi. Mohammad Reza Nikoo. “*Machine Learning Model Optimization for Removal of Steroid Hormones from wastewater: 15th International Conference Challenges in Environmental Science & Engineering (Oral Presentation)*. Dec. 2022.UAE.
  5. Using respirometric techniques for investigation of the effects of AlkylPhenolic compounds on kinetic coefficients and biomass activity in Moving Bed Bio Reactor. 3 rd. International Conference on Environmental Health, (**Poster presentation**). Tehran, IRAN. 2020
  6. **Zeinab Yavari**, Biodegradation of natural and synthetic estrogens in moving bed bioreactor, Rome, Italy.2020 (**Oral presentation**)
  7. **Zeinab Yavari**, Biodegradation of Estrogens using Moving Bed Bio-Reactor (MBBR).2016. (**Oral presentation**) 1<sup>st</sup> International and 19th National Conference on Environmental Health, Tehran, IRAN. 2016
  8. **Zeinab Yavari**, Kinetic Coefficients Determination of Steroid Hormones in Moving Bed Biofilm Reactor (MBBR) by Respirometric Method. 1st International and 19th National Conference on Environmental Health. 2016. (Oral presentation). Tehran, IRAN. 2016
  9. **Zeinab Yavari**, Energy Generation and Wastewater Treatment using Microbial Fuel Cell (MFC). (**Oral presentation**). 2nd International Conference on Innovations in Engineering and Technology (ICCET’) “Malaysia. 2014
  10. **Zeinab Yavari**, Survey of performance microbial fuel cell for wastewater treatment and electricity generation. (**Oral presentation**). IEEE conference on power engineering and renewable energy. Thailand. 2012.
-

11. **Zeinab Yavari**, Electricity generation from synthetic wastewater treatment in microbial fuel cell. 8<sup>th</sup> international conferences of energy. **(Oral presentation)**. IRAN. Tehran. 2012
  12. **Zeinab Yavari**, Desalination of brackish water by microbial desalination cell with electricity generation. **(Poster presentation)**. IRAN. Tehran. 2012
  13. **Zeinab Yavari**, Removal of granular ferric hydroxide (GFH) from water. **(Poster presentation)**. National Conference of clean water. IRAN. Tehran. 2013
  14. **Zeinab Yavari**, Using of Polyamidoamine Dendrimer (PAMAM G3) for the Removal of Pentavalent Arsenic from Aqueous Solutions. **(Poster presentation)**. 18<sup>th</sup> National conference of environmental health. IRAN. Shiraz. 2015
  15. **Zeinab Yavari**, Prediction the performance of full-scale wastewater treatment plant with artificial neural network and genetic algorithm. **(Poster presentation)**. 18<sup>th</sup> National conference of environmental health. IRAN. Shiraz. 2015
  16. **Zeinab Yavari**, Investigation the IAWQ Model (ASM1) Using Full Scale Wastewater Treatment Plant. **(Poster presentation)**. Environmental Engineering Conference. IRAN. Tehran. 2016
  17. **Zeinab Yavari**, Management of Collection, Transfer, and Disposal of Medical Waste (Case Study in West Azerbaijan Province). 5<sup>th</sup> National Conference on Waste Management. IRAN. Tehran. 2012
  18. **Zeinab Yavari**, Using of MFC for electricity generation and wastewater treatment. 1<sup>st</sup> environmental remediation technologies Conference. IRAN. Tehran. 2011
-

## Book

Name	Role
1. Water and wastewater treatment. Principles and design, GL.karia (translated)	editor
2. Removal of hormones from wastewater (in progress)	Author

## Workshop

- Empowerment Course for academic member
- Course plan
- Scientific writing (preliminary, advanced)
- Teaching methods
- Design Exam Questions
- Research method
- reviewing and judging articles
- Qualitative researches
- Quantitative Researches