



Sultan Qaboos University

Curriculum Vitae



Zeinab Yavari, Ph.D

Assistant Professor

Personal and contact information

Name	ZEYNAB YAVARI
Place of Birth	Iran
Work address	Department of Civil and architectural, college of engineering, Sultan Qaboos University, Sultanate of Oman
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Education

Ph.D	Environmental Health engineering, Isfahan University of Medical Sciences	Sep. 2013 - Dec.2017
M.Sc	Environmental Health engineering, Tehran University of Medical Sciences	Sep.2009– Feb.2012
Undergraduate	Environmental Health engineering, Qom University of Medical Sciences	Sep.2004 Feb. 2008

Thesis

- Ph.D thesis
Evaluation the removal of endocrine steroid hormones using moving bed bio erector (MBBR)
Date of the thesis defense: Dec. 2017
Thesis Supervisor: Full Professor mohammad Mehdi Amin
- M.S thesis
Feasibility of Microbial Fuel Cell (MFC) for electricity generation from synthetic wastewater
Date of the thesis defense: July 2011
Thesis Supervisor: Full Professor kazem naddafi

Honors and awards

- Hafiz of Quran
- Elected student in Ph.D. at ministry of health (University level) 2015
- Elected student in Ph.D. at ministry of health (University level) 2016
- Elected student in Ph.D. at 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. without entrance national exam at ministry of health, 2009
- Ranked first in M.Sc. at ministry of health (University level)2008
- Ranked first in B.Sc. at 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

Professional experience

Employment

1. Assistant professor, Department of environmental health, School of health, Shahid Sadoughi University of medical sciences 2018-now
Responsibilities: Teaching relevant courses and supervising students project
2. Deputy education, school of Abarkouh Paramedicine , Shahid Sadoughi University of Medical Sciences ,Yazd, Iran 2019-now
3. Head of department of environmental health engineering, School of Abarkouh Paramedicine, Shahid Sadoughi University of medical sciences 2019-now
Responsibilities: Supervising educational and research issues of student
4. Member of the University Education and Graduate Council 2019-now
5. Executive Committee of Online and Electronic University Examinations 2020-now
6. Representative of Deputy of education 2020-now
7. Academic member of Qom university of medical sciences 2008-2011
8. Quranic advisor at Qom university of medical sciences 2008-2011

research experience

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| 1. Member of genetic and environmental research center | 2018-now |
| 2. Head of EDO (education development office) | 2018-now |
| 3. Representative of deputy of education for electronic log book | 2020-now |
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EDUCATION:

Teaching

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

Research interest

- Biological and chemical wastewater treatment
 - Removal of micropollutants from environment
 - Endocrine disruptive compounds (EDCs)
 - Moving bed bio reactor (MBBR)
 - Modeling in Environmental Health engineering
 - Microbial Fuel Cell (MFC)
 - Renewable energy
 - Biotechnology & Biochemical
 - Biogas and biofuel
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Technical skill

Instrument

- Gas chromatography followed with mass spectrometry (GC–MS)
- High Performance Liquid Chromatography (HPLC)
- Atomic absorption
- Respirometer
- Spectrophotometer
- 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:

- Light microscopy
- Fluorescent microscopy
- Stereomicroscopy

Software

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

Reviewer

- Water research
- Science of the total environment
- Microchemical journal
- 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
- Professor Kazem Nddafi, Department of environmental Health, School of public health, Tehran University of medical sciences .
Email: 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
- Professor mohammad Mehdi Amin, Department of environmental Health, School of public health, Isfahan university of medical sciences .
Email: 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

RESEARCH					
papers					
	Index	Journal	Year	Article	No.
	Scopus	International Journal of Environmental Health Engineering	2021	Determination the Biochemical Kinetics of Natural and Synthetic Estrogens in Moving Bed Bioreactor	1
3.7	ISI	Biomedical Journal	2021	Artificial neural network and logistic regression modeling to characterize COVID-19 infected patients in local areas of Iran	2
3.4	ISI	Biochemical Engineering Journal	2020	Modeling and sensitivity analysis of the Alkyl phenols removal via moving bed biofilm reactor using artificial neural networks: Comparison of Levenberg Marquardt and Particle Swarm Optimization training algorithms	3
3.4	ISI	Biochemical Engineering Journal	2021	Design and fabrication of cylindrical nan filtration for removal of urea and catenin from aqueous solution	4
0.5	ISI	Indian Journal of Chemical Technology	2020	Removal of RR198 dye by TiO ₂ /Fe ₃ O ₄ /persulfate nanoparticles under UV-LED irradiation and comparison of OFAT and CCD experimental design in RSM modeling	5
	Scopus	International Journal of Environmental Health Engineering	2021	Prediction the performance of full scale wastewater treatment plant with A-B process Using artificial neural network and genetic algorithm	6
	Scopus	International Journal of Environmental Health Engineering	2021	Determination the Biochemical kinetics of natural and synthetic estrogens in moving bed bioreactor	7
2.6	ISI	Chinese Journal of Chemical Engineering	2017	Determination of 4-NonylPhenol and 4-tert-octylphenol compounds in various types of wastewater and their removal rates in different treatment processes in nine wastewater treatment plants of Iran	8

2.6	ISI	Chinese Journal of Chemical Engineering	2017	Evaluation of the effects of AlkylPhenolic compounds on kinetic coefficients and biomass activity in MBBR by means of respirometric techniques	9
2.6	ISI	Chinese Journal of Chemical Engineering	2017	Biodegradation of natural and synthetic estrogens in moving bed bioreactor	10
2.6	ISI	Chinese Journal of Chemical Engineering	2017	Occurrence, fate, and distribution of natural and synthetic hormones in different types of wastewater treatment plant in Iran	11
1.61	ISI	The Canadian Journal of Chemical Engineering	2017	Evaluation of the effects of AlkylPhenolic compounds on kinetic Parameters in Moving Bed Biofilm Reactor	12
0.7	ISI	Environment Protection Engineering	2015	Upgrading the effluent quality of an aerated lagoon with horizontal filtration	13
0.5	ISI	Journal of water chemistry and technology	2017	Artificial Neural Network Modelling of Chromium (VI) Biosorption from Aqueous Solutions	14
0.7	ISI	Middle-East Journal of Scientific Research	2015	Adsorption of EDTA from Aqueous Solution by HDTMA- Modified Zeolite	15
0.5	Scopus	International Journal of Renewable Energy	2014	Microbial Fuel Cell (MFC) for Energy generation and wastewater treatment	16
0.5	Scopus	Int. Journal of Renewable Energy Development	2013	Performance of Microbial Fuel Cell for Wastewater Treatment and Electricity Generation	17
0.7	Scopus	Middle-East Journal of Scientific Research	2013	Dental Caries Prevalence among Schoolchildren in Urban and Rural Areas of Qom Province, Central Part of Iran	18
3.9	Scopus	Journal of Neurophysiology and Neurological Disorders	2020	Anxiety and Depression Following Diesel Exhaust Nano-Particles Exposure in Male and Female Mice	19
	Scopus	Journal of Environmental Health and	2016	Using Generation 3 Polyamidoamine Dendrimer (PAMAM G3) as adsorbent for the Removal of Pentavalent	20

		Sustainable Development		Arsenic from Aqueous Solutions	
	Scopus	Journal of Safety, Environment, and Health Research (JSEHR)	2016	sorption of Lead from Aqueous Solution by Modified Beech Sawdust	21
		Journal of Health System Research	2012	Nitrate Removal from Water Using Granules Ferric Hydroxide Absorbent	22
		Journal of Environmental Sciences and Technology	2011	The effect of hydrogen peroxide-silver ion complex on the elimination of fecal coliforms Aeration from lagoon effluent	23
	ISI	Water research	Under review	Modeling the removal of steroid hormones by moving bed biofilm reactor using artificial neural networks: Comparison of Levenberg Marquardt and Particle Swarm Optimization training algorithms	24
	ISI	Renewable energy	Under review	Modeling of MFC with artificial neural network for electricity generation	25
	ISI	Hazardous material	Under review	Modeling of PAMAM G3 for removal of arsenic with ANN and RSM	26

Conferences

1. 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.
2. Biodegradation of natural and synthetic estrogens in moving bed bioreactor, Rome, Italy.2020 (Oral presentation)
3. Biodegradation of Estrogens using Moving Bed Bio-Reactor (MBBR).2016. (Oral presentation) 1st International and 19th National Conference on Environmental Health, Tehran, IRAN. 2016
4. 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
5. Energy Generation and Wastewater Treatment using Microbial Fuel Cell (MFC). (Oral presentation). 2nd International Conference on Innovations in Engineering and Technology (ICCET') "Malaysia. 2014
6. Survey of performance microbial fuel cell for wastewater treatment and electricity generation. (Oral presentation). IEEE conference on power engineering and renewable energy. Thailand. 2012.
7. Performance of microbial fuel cell for wastewater treatment and electricity generation .International Conferences on Power and Energy Engineering. (Oral presentation) Indonesia. 2012

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

- 15.Using of MFC for electricity generation and wastewater treatment. 1st environmental remediation technologies Conference. IRAN. Tehran. 2011
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Book

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