



## CURICULUM VITAE

Mojtaba Pourakbar

Ph.D of Environmental Health Engineering

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### Personal information:

Name: Mojtaba Pourakbar

Date of birth: December 25, 1988

Place of birth: Ahar, Iran

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### Education:

- PhD of environmental health engineering - Tarbiat Modares University, Tehran, Iran (2014-2018).  
**Thesis title:**  
Investigation of the phenol biodegradation in wastewater using the cyclic activated sludge integrated with rotating bed.
- MS of environmental health engineering – Tabriz University of medical sciences, Tabriz, Iran (2011-2013).  
**Thesis title:**  
Qualitative modeling of groundwater resources of villages of Tabriz, Heris, Bostanabad, Sarab, Hashtrud, Miyaneh and Charoimaq cities.
- BS of environmental health engineering – Tabriz University of medical sciences, Tabriz, Iran (2007-2011).

### Research field and interests:

- Advanced oxidation technologies for water and wastewater treatment
- Photocatalytical process for organic contaminants degradation.
- Novel biological processes for wastewater treatment
- Environmental biotechnology and bioremediation

### Professional experiences

I have been involved in teaching of the following subjects:

1. Environmental health engineering courses
2. Application of Geographical Information System (GIS) in environmental health.
3. Environmental chemistry laboratory course.

### Publications in peer reviewed journals

1. Nasim Zolfaghari Firouzsalar, Mohammad Shakerkhatibi, **Mojtaba Pourakbar**, Adeleh Yadeghari, Gholam Hossein Safari, Parvin Sarbakhsh. (2019). Pyrethroid pesticide residues in a municipal wastewater treatment plant: Occurrence, removal efficiency, and risk assessment using a modified index. *Journal of Water Process Engineering*.
2. Mohammad Shakerkhatibi, Mohammad Mosaferi, **Mojtaba Pourakbar**, Mehrdad Ahmadnejad, Navid Safavi. *Faranak Banitorab*. (2019). Comprehensive investigation of groundwater quality in the north-west of Iran: Physicochemical and heavy metal analysis. *Groundwater for Sustainable Development*.
3. Gholamreza Moussavi, **Mojtaba Pourakbar**, Ehsan Aghayani, Mostafa Mahdavianpour. (2018). Investigating the aerated VUV/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> process simultaneously generating hydroxyl and sulfate radicals for the oxidation of cyanide in aqueous solution and industrial wastewater. *Chemical engineering Journal*.
4. **Mojtaba Pourakbar**, Gholamreza Moussavi, Kamyar Yaghmaeian. (2018). Enhanced biodegradation of phenol in a novel cyclic activated sludge integrated with rotating bed bioreactor in anoxic and peroxidase-mediated conditions, *RSC advances*.
5. Gholamreza Moussavi, Mohsen Rezaei, **Mojtaba Pourakbar**. (2018). Comparing VUV and VUV/Fe<sup>2+</sup> processes for decomposition of cloxacillin antibiotic:

Degradation rate and pathways, mineralization and by-product analysis. Chemical Engineering Journal.

6. Gholamreza Moussavi, **Mojtaba Pourakbar**, Sakineh Shekoohyian, Mohammad Satari. (2018). The photochemical decomposition and detoxification of bisphenol A in the VUV/H<sub>2</sub>O<sub>2</sub> process: Degradation, mineralization, and cytotoxicity assessment. Chemical Engineering Journal.
7. M. E. Ramazani, M. Mosaferi, Y. Rasoulzadeh, **M. Pourakbar**, M. A. Jafarabadi, H. Amini. (2017). Temporal and spatial evaluation of environmental noise in urban area: a case study in Iran. International Journal of Environmental Science and Technology.
8. Ehsan Aghayani, Gholamreza Moussavi, **Mojtaba Pourakbar**. (2016). The oxidation of aromatic hydrocarbons vaporizing waste air streams using VUV advanced oxidation process. Journal of Air Pollution and Health.
9. Gholamreza Moussavi, **Mojtaba Pourakbar**, Ehsan Aghayani, Mostafa Mahdavianpour, Sakine Shekoohyian. (2016). Comparing the efficacy of VUV and UVC/S<sub>2</sub>O<sub>8</sub><sup>2-</sup> advanced oxidation processes for degradation and mineralization of cyanide in the industrial wastewater. Chemical engineering journal.
10. Nader Taghipour, Heresh Amini, Mohammad Mosaferi, Masud Yunesian, **Mojtaba Pourakbar**, Hassan Taghipour. (2016). 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. Environmental Science Pollution Research.
11. **Mojtaba Pourakbar**, Gholamreza Moussavi, Sakine Shekoohyian. (2016). Homogenous VUV advanced oxidation process for enhanced degradation and mineralization of antibiotics in contaminated water. Ecotoxicology and Environmental Safety.
12. Gholamreza Moussavi, Zeynab Hossaini, **Mojtaba Pourakbr**. (2016). High-rate adsorption of acetaminophen from the contaminated water onto double-oxidized graphene oxide. Chemical engineering journal.

13. **Mojtaba Pourakbar**, Mohammad Mosaferi , Saeed Lak. (2015). Assessment of water supply system and water quality of Lighvan village using water safety plan. Environmental Health Engineering and Management Journal.
14. Mohammad Mosaferi, **Mojtaba Pourakbar**, Mohammadshaker khatibi, Esmaeil Fatehifar, Mehdi Belvasi. (2014). Quality Modeling of Drinking Groundwater Using GIS in Rural Communities, northwest of Iran. Journal of Environmental Health Science Engineering.
15. Mohammad Fahiminia, Mohammad Mosaferi , Reza A. Taadi, **Mojtaba Pourakbar**. (2013). Evaluation of point-of-use drinking water treatment systems' performance and problems, Desalination and Water Treatment.
16. Hassan Taghipour, Mohammad Shakerkhatibi, **Mojtaba Pourakbar**, Mehdi Belvasi. (2012). Corrosion and Scaling Potential in Drinking Water Distribution System of Tabriz, Northwestern Iran. Health Promotion Perspectives.
17. Hassan Taghipour, Mohammad Mosaferi, **Mojtaba Pourakbar**, Feridoun Armanfar. (2012). Heavy Metals Concentrations in Groundwater Used for Irrigation. Health Promotion Perspectives.

#### Publications in Persian:

1. **Mojtaba Pourakbar**, Mohammad Mosaferi, Mohammadshaker Khatibi, Adel Moradi. (2015). Groundwater Quality Assessment from a Hydrogeochemical Viewpoint A Case Study of Sarab County. Journal of water and wastewater.
2. Dehghanzadeh R, Safavy N, Ghaem Maghami Hezaveh S J, **Pourakbar M**, Nazari S. (2014). Determination of Extraction and Analysis Method for Imipenem in Hospital Sewage Samples Using High Performance Liquid Chromatography-UV Detector and with Solid Phase Extraction Column. Arak Medical University Journal.

#### Abstracts presented in international conferences:

1. **Mojtaba Pourakbar**, Gholamreza Moussavi, Kamyar Yaghmaeian (2017). Enhanced Anoxic Degradation and COD Removal of Phenol by Cyclic Activated Sludge Integrated with Rotating Bed Bioreactor. 19th international conference on

environmental biotechnology and bioremediation. Istanbul, Turkey (oral presentation).

2. Mohammad Mosaferi, **Mojtaba Pourakbar**. (2013). Fluoride in drinking water of West Azerbaijan Province, Iran, XXXIst Conference of the International Society for Fluoride Research, Tehran, Iran.

#### Books:

1. Gholamreza Moussavi, Mostafa Mahdavianpour, **Mojtaba Pourakbar**, Ehsan Aghayani (2016). Wastewater treatment in wetlands. Shahrab publication, Tehran, Iran. (in Persian).
2. Gholamreza Moussavi, Mostafa Mahdavianpour, Ehsan Aghayani, **Mojtaba Pourakbar**. Biogas systems: Principles, design, construction and operation. (2017). Asar Sobhan Publication, Tehran, Iran. (in Persian).