University of Larestan

CURRICULUM VITAE

Name: Mojtaba Forouzesh

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Date of birth: 1989 March 31

❖ Education/Qualifications

2007-2011	**BSc**: Persian Gulf University, Chemical Engineering Department. **Thesis**: Differential quadrature method and its application in engineering. **Supervised by**: Dr. Hossein Rahideh.
2011-2013	**MSc**: Sahand University of Technology, Chemical Engineering Department. **Thesis**: Simultaneous carbon, nitrogen and phosphorus removal from municipal wastewater in a submerged aerated bio-film reactor. **Supervised by**: Dr. Ali Baradar Khoshfetrat.
2014-2018	**PhD**: Sahand University of Technology, Chemical Engineering Department. **Thesis**:Activated carbon as activator of sulfate radical based advanced oxidation process for pharmaceutical pollutants degradation. **Supervised by**: Dr. Amanollah ebadi.
2020-2022	**Postdoc**: Sahand University of Technology, Chemical Engineering Department. **Thesis**: Purification of wet-produced phosphoric acid. **Supervised by**: Dr. Esmaeil Fatehifar.

❖ **Employment to Date/Work Experience**

2023-present: Assistant Professor, Chemical Engineering, University of Larestan.

❖ **Other Experience/Activities**

2020-2022: Director of R&D of Hamian Sanat Bahrevar Iranian Co. (https://gp-mfca.com/).

❖ **Languages** English: intermediate; Persian: basic.

❖ **Other Skills** Software: MATLB, FLUENT, ASPEN HYSYS, COMSOL, OFFICE.

❖ **Research Interests**

- Water and wastewater treatment
- Advanced oxidation processes
- Biofilm process
- Adsorption
- Material flow cost accounting (MFCA)

❖ **Reviewing Journals**

- Chemical Engineering Journal
- Separation and Purification Technology
- Water Process Engineering

❖ **Publications**

➢ **Journal Papers**

1 Alizadeh Kordkandi S, **Forouzesh M**. "Application of Full Factorial Design for Methylene Blue dye removal using Heat-activated Persulfate oxidation". Journal of the Taiwan Institute of Chemical Engineers, 45 (2014) 2597–2604. (Q1, 2019 IF: 4.794)

2 **Mojtaba Forouzesh**, Ali Baradar Khoshfetrat, Salman Alizadeh Kordkandi. "Partially aerated submerged fixed-film bioreactor for simultaneous removal of carbon and nutrients from high-strength nitrogen wastewaters: effect of aeration rate and C: N: P ratio". Water Science & Technology, 76 (2017) 877-884. (Q3, 2019 IF: 1.638)

3 **M. Forouzesh**, A. Ebadi, and A. Aghaeinejad-Meybodi. "Degradation of metronidazole antibiotic in aqueous medium using activated carbon as a persulfate activator". Separation and Purification Technology, 210 (2019) 145-151. (Q1, 2019 IF: 5.774)

4 **Mojtaba Forouzesh**, Amanollah Ebadi, Abbas Aghaeinejad-Meybodi, Reza Khoshbouy. "Transformation of persulfate to free sulfate radical over granular activated carbon: Effect of acidic oxygen functional groups". Chemical Engineering Journal, 374 (2019) 965-974. (Q1, 2019 IF: 10.652

5 **Mojtaba Forouzesh**, Amanollah Ebadi, Abbas Aghaeinejad-Meybodi. "Continuous fixed-bed oxidation of metronidazole by the sulfate radical based process over nitric acid treated granular activated carbon". Journal of Water Process Engineering, 36 (2020) 101280. (Q1, 2019 IF: 3.465)

6 Reza Irani, Ali Baradar Khoshfetrat, **Mojtaba Forouzesh**. "Real municipal wastewater treatment using simultaneous pre and post ozonation combined biological attached growth reactor: Energy consumption assessment". Journal of Environmental Chemical Engineering, 9 (2021) 104595. (Q1, 2019 IF: 4.300)

7 **Mojtaba Forouzesh**, Amanollah Ebadi, Fahime Abedini. "Thermocatalytic Persulfate Activation for Metronidazole Removal in the Continuous Operation". Separation and Purification Technology, 258 Part 2 (2021) 118055. (Q1, 2019 IF: 5.774)

8 Rasool Pelalak, Zahra Heidari, **Mojtaba Forouzesh**, Eslam Ghareshabani, Reza Alizadeh, Azam Marjani, Saeed Shirazian. "High performance ozone based advanced oxidation processes catalyzed with novel argon plasma treated iron oxyhydroxide hydrate for phenazopyridine degradation". Scientific Reports, 11 (2021) 964. (Q1, 2019 IF: 3.998)

9 **Mojtaba Forouzesh**, Esmaeil Fatehifarb, Reza Khoshbouy, Mohammad Daryani. "Experimental investigation of iron removal from wet phosphoric acid through chemical precipitation process". Chemical Engineering Research and Design, 189 (2023) 308-318. (Q2, 2019 IF: 3.739)

- **Conference Papers**

1 **Mojtaba Forouzesh**, Ali Baradar Khoshfetrat. "Simultaneous carbon, nitrogen and phosphorus removal from municipal wastewater in a submerged aerated bio-film reactor". The 1st Conference and Exhibition on Environment, Energy & Clean Industry, Tehran, Iran, 4-5 December, 2013.

2 **Mojtaba Forouzesh**, Amanollah Ebadi, Abbas Aghaeinejad-Meybodi. "Degradation of pharmaceutical metronidazole using activated carbon as persulfate activator: continuous

flow fixed-bed reactor". The 10th International Chemical Engineering Congress & Exhibition, Isfahan, Iran, 6-10 May, 2018.

3 **Mojtaba Forouzesh**, Esmaeil Fatehifar. "The effect of carbonated materials on the impurities removal from wet-produced phosphoric acid". The 3rd National Conference on Environmental Engineering and Management, Tehran, Iran, 31 May, 2021.

❖ **Awards**

2019 The second festival of the best theses, Khayyam festival.

❖ **References**

- Prof. Esmaeil Fatehifar, Sahand University of Technology, fatehifar@sut.ac.ir
- Prof. Ali Baradar Khoshfetrat, Sahand University of Technology, khoshfetrat@sut.ac.ir
- Prof. Reza Alizadeh, Sahand University of Technology, alizadeh@sut.ac.ir
- Associated Prof. Amanollah Ebadi, Sahand University of Technology, ebadi@sut.ac.ir
- Assistant Prof. Reza Khoshbouy, Sahand University of technology, r_khoshbouy@sut.ac.ir

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