

**PERSONAL  
INFORMATION**

**Name:** Fatemeh Zakeri

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**CONTACT  
INFORMATION**

**Email address:** FatemehZakeri97@gmail.com

**Google scholar:** <https://scholar.google.com/citations?user=FD8LgNEAAAAAJ&hl=en>

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Nanocatalyst, Water and wastewater treatment, Advanced Oxidation Processes (AOPs), Ozonation process, Piezo-photocatalysis, Ultrasound-assisted Processes, Electrochemistry, supercapacitor, Water splitting, Energy storage.

**RESEARCH  
INTEREST**

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- ♦ **B.Sc. University of Tabriz** (Feb 2017- Sep 2020)
  - **Major:** Applied Chemistry
  - **Supervisor:** *Dr. Alireza Khataee*
  - **Thesis:** Synthesized a high-performance Z-scheme 2D/2D WO<sub>3</sub>@ CoFe-LDH nanocomposite for the synchronic degradation of the mixture azo dyes by sonocatalytic ozonation process

**EDUCATION**

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- ♦ **Research Experience:**
  - Research Laboratory of Advanced Water and Wastewater Treatment Process, University of Tabriz, Research assistant (Jan 2019 – Present)  
(Synthesized, Composed and Modified Nanostructured Materials for wastewater treatment)
  - Organic Synthesis Research Laboratory, University of Tabriz, Research assistant (Feb2018 – Dec 2018)  
(Synthesized and characterized novel catalysts, worked on solid-phase extraction)
- ♦ **Internship**
  - *Department of Environment, Tabriz, Iran* (Aug – Sep 2020)  
(Experimented in Water and Wastewater Laboratory and determined wastewater and water parameters)
- ♦ **Work**
  - Central laboratory of chemistry faculty at university of Tabriz (Jun 2020 – Jun 2022)  
(The technician of GC-MSS, FT-IR, AAS, HPLC-UV and UV-DRS apparatus)
  - Radin quality control laboratory (Aug 2022 – Mar 2023)  
(The expert of HPLC-MS/MS for bioequivalence according to the EMEA standard and familiar with ISO-17025)

**EXPERIENCES**

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- ♦ **Technician Systems**
    - UV- VIS spectrometer, AAS, FT- IR, GC-MS, HPLC-UV, DRS, HPLC-MSMS, Auto lab
  - ♦ **Software**
    - Microsoft Office, Origin, ChemDraw, Zotero, Adobe Photoshop, VESTA
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**SKILLS**

- ♦ Khataee Alireza, Arezoo Fazli, **Fatemeh Zakeri**, and Sang Woo Joo. "Synthesis of a high-performance Z-scheme 2D/2D WO<sub>3</sub>@ CoFe-LDH nanocomposite for the synchronic degradation of the mixture azo dyes by sonocatalytic ozonation process." *Journal of Industrial and Engineering Chemistry* (2020). Q1, IF= 6.1, <https://doi.org/10.1016/j.jiec.2020.05.026>.
- ♦ Akhi Hossein, Vahid Vatanpour, **Fatemeh Zakeri**, and Alireza Khataee. "Modification of EPVC membranes by incorporating tungsten trioxide (WO<sub>3</sub>) nanosheets to improve antifouling and dye separation properties." *Journal of Industrial and Engineering Chemistry* (2021). Q1, IF= 6.1, <https://doi.org/10.1016/j.jiec.2021.08.020>.
- ♦ **Fatemeh Zakeri**, Arezoo Fazli, Alireza Khataee, Yasin Orooji. "A BaTiO<sub>3</sub>/WS<sub>2</sub> composite for piezo-photocatalytic persulfate activation and ofloxacin degradation." *Communications Chemistry*, (2022), Q1, IF= 7.211, <https://doi.org/10.1038/s42004-022-00707-2>
- ♦ Arezoo Fazli, **Fatemeh Zakeri**, Marcello Brigante, Alireza Khataee, Gilles Mailho. "Inactivation of harmful algal bloom by an environmentally friendly photocatalyst under photo-Fenton-like degradation process." *Journal of Cleaner Production*, (2022), Q1, IF= 11.1, <https://doi.org/10.1016/j.jclepro.2022.133513>.
- ♦ Ismail Koyuncu, Bahriye Eryildiz, Recep Kaya, Yucel Karakus, **Fatemeh Zakeri**, Alireza Khataee, Vahid Vatanpour. "Modification of reinforced hollow fiber membranes with WO<sub>3</sub> nanosheets for treatment of textile wastewater by membrane bioreactor." *Journal of Environmental Management*, (2022), Q1, IF= 8.91, <https://doi.org/10.1016/j.jenvman.2022.116758>.

## PUBLICATIONS

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## LANGUAGE

- ♦ English (Upper-intermediate)
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