

Mehrzad Yadegari

Email: pmyeeik@gmail.com

Educations

- **Ph.D in Civil Engineering (Environmental Engineering)** 2026 – ?
[Shahrood University of Technology](#), Shahrood, IRAN.
- **M.Sc. in Environmental Engineering - Water and Wastewater** 2021 – 2023
Islamic Azad University, Science and Research Branch, Tehran, IRAN. (GPA: 3.92/4)
Thesis:
Adsorption of arsenic from water resources using concrete waste.
(Under the supervision of [Homayon Ahmad Panahi](#) and [Seyedeh Hoda Rahmati](#))
- **Bachelor of Civil Engineering** 2015 – 2020
Tafresh University, Markazi, IRAN.

Publications

Journal publication

- **Mehrzad Yadegari**, Homayon Ahmad Panahi, Seyedeh Hoda Rahmati, [Amirhossein Mohammadi](#), [Farshid Imani](#) "Poly(allyl alcohol-co-vinyl acetate)-grafted Concrete Waste for Adsorptive Removal of As(III)" Materials Chemistry and Physics (Q1), ISSN: 0254-0584, 2024. (Cited by: 6)

Conferences

- **Mehrzad Yadegari**, Ali Jafari, Zahra Andalib, Ehsan Zeinolabedin, "The role of cheap adsorbents in adsorption of heavy metals from water resources", 3rd International Congress on Civil Engineering, Architecture, and Urban Planning, 24 February. 2024, Tehran, IRAN.
- Salman Sharif, **Mehrzad Yadegari**, Mohammad Mehdi Mehrabi, Meysam Kolbadinejad, "The effect of chemical problems in drinking water on human health", 9th International Congress on Civil Engineering, Architecture, and Urban Development, 21 September. 2023, Tehran, IRAN.
- **Mehrzad Yadegari**, Salman Sharif, Meysam Kolbadinejad, Mohammad Mehdi Mehrabi, "Solutions to reduce water pollution in industries", 5th International Conference & 6th National Conference on Civil Engineering, Architecture, Art and Urban Design, 28 June. 2023, Tabriz, IRAN.

Translation (Books)

- **Mehrzad Yadegari**, "Handbook of Drinking Water - Quality Control, Distribution System, and Treatment", 7 June. 2023, Narvandanesh publication, ISBN: 978-622-276-558-3.

IELTS (Academic) Test

- Scores: Overall: **6** (Reading: **5.5**, Listening: **5.5**, Writing: **5.5**, Speaking: **7**)

Research Interests

- Removal of pollutants from natural resources.
- Increase the quality of drinking water and wastewater treatment.
- New treatment technologies and sustainable methods of water treatment.
- Environmental fate of pollutants.
- Environmental fields related to water and wastewater.

Work Experiences

Academic Experience

- March 2023 - November 2023:

Research Assistant, Islamic Azad University, Science and Research Branch, Tehran, IRAN.

➤ Research field:

- 1) Adsorption of arsenic from water resources using concrete waste.
- 2) Chemical modification of silicon oxide with organic polymers and Investigation of arsenic adsorption capacity by adsorbent before and after conversion.
- 3) Investigating and finding optimal temperature and retention times, concentrations, and pH conditions.
- 4) Analysis of the adsorption mechanism among the adsorption isotherm and kinetics models.
- 5) Examine interfering ions' presence and effect on the adsorbent power.
- 6) Design of Experiments (DOE) with the RSM method (CCD), also using Design Expert software to increase the efficiency of experiments.
- 7) Evaluating the strength of a certain amount of adsorbent in removing multiple pollutants.

- September 2016 - December 2016:

Teacher Assistant, Tafresh University, Markazi, IRAN.

Teaching courses: AutoCAD 2D & MS Office software, Drawing Structure Plans.

Professional Experience

- September 2026 – Now:

Official Teacher of the Ministry of Education, Tehran, IRAN.

Middle School Teacher (Teaching lessons related to drinking water, health and environment to Middle school children)

- September 2024 – October 2026: (Months: 12)

Official Teacher of the Ministry of Education, Tehran, IRAN.

Primary School Teacher (Teaching lessons related to drinking water, health and environment to elementary school children)

- August 2021 - August 2022: (Months: 13)

Civil Engineer at Kayson Company, Parand-Tehran, IRAN.

Technical Office Expert (Monitoring the construction of concrete frame residential buildings).

Skills

- **Computer Packages:** MS Office, Design Expert.

- **Individual Skills:**

- 1) Proven interpersonal skills, with the ability to work efficiently as a team player and independently.
- 2) Passionate about challenging problem-solving and capable of working under pressure with tight deadlines.
- 3) Excellent communication skills, both written and verbal, enabling effective collaboration with diverse groups.
- 4) Adaptable and quick learner, able to swiftly grasp new concepts.
- 5) Strong attention to detail, ensuring accuracy and precision in tasks and projects.
- 6) Demonstrated leadership qualities, inspiring and motivating others to achieve common goals.
- 7) Highly organized, managing multiple tasks effectively and prioritizing responsibilities efficiently.