

Maryam Tabatabaei

ANALYTICAL CHEMIST

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Education

MS.c in Analytical Chemistry

Tehran, Iran

IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Sep. 2018 - Aug. 2021

- **GPA:** 3.3/4
- **Thesis Title:** Synthesis and application of lysine-modified graphene oxide sorbent as a new sorbent in Dispersive solid phase micro-extraction of sulfur anticancer drug followed by high performance liquid chromatography [Dr. Afsaneh Mollahosseini](#)
- [Iran University of Science and Technology](#) is [ranked 12](#) among Best Iran Universities.

B.S. in Applied Chemistry

Tehran, Iran

TEHRAN ISLAMIC AZAD UNIVERSITY OF MEDICAL SCIENCE

Sep. 2014 - Aug. 2018

- **GPA:** 3.68/4
- [Tehran Islamic Azad University of Medical science](#) [ranked 2](#) among Best Iran Universities.

Selected courses

- Pharmaceutical Chemistry (19.5/20)
- Organic compounds Separation and Identification (18.5/20)
- Analytical Molecular Spectroscopy (17.5/20)
- Statistical analysis of results (Chemometrics: Experimental Design) (16/20)

Honors & Awards

- **Ranked** as graduated **top three** of the class of 2014, among the more than 100 students of Applied Chemistry at the end of Bachelors, Azad medical science university, Tehran, Iran.
- **Ranked** within the **top 1%** among approximately 20,000 participants in the National Entrance Examination for Iranian universities for **Master program**.
- Winner of the **full scholarship** (tuition waiver) for Master of science Analytical chemistry at Iran University of Science and Technology.

Research Interests

- Medicinal chemistry
- Drug discovery
- Bioanalytical Chemistry
- Drug delivery

Publications

- M. Tabatabaei, A. Mollahosseini, **Synthesis and application of lysine-modified graphene oxide sorbent as a new sorbent in Dispersive solid phase micro-extraction of sulfur anticancer drug followed by high performance liquid chromatography**, In preparation, 2021.
- M. Tabatabaei, Z. Durabei, **Continuous column adsorption of urea, creatinine using Amino Functionalized MOF-5@SiO₂**, , In preparation, 2021.

Research Experience

- Synthesized new sorbents based on graphene oxide and modified them by lysine to preconcentrate anticancer drugs in different biological samples before HPLC analysis, Iran University of Science and Technology, Under supervision of Dr. Afsaneh Mollahosseini, Sep. 2020.
- Synthesized Amino Functionalized MOF-5@SiO₂ to use as adsorbent in column to eliminate urea and creatinine, Iran University of Science and Technology, Under supervision of Dr. Rohallah zare Dorabei, Mar. 2021.
- Extraction and measurement of phthalate esters from sunscreens by synthesized electrospun nanofiber membranes (PAN/PDMS/TiO₂) by electro-spinning system and electromembrane extraction (EME) method, Nov. 2020.

Work Experience

Industrial

Drug analyser internship

Tehran, Iran

Summer 2017

HAKIM PHARMACEUTICAL COMPANY

- Prepared and analyzed sample of produced medicines in purpose of ascertain and qualification in laboratory by UV-vis and HPLC
- Operated HPLC system and analyzed injection results
- Checked the digestion and release of active pharmaceutical ingredient from the capsules also checked the hardness, thickness and disintegration of capsule

Academic

Operator

Tehran, Iran

Apr 2017-Apr 2018

RESEARCH CENTER TEHRAN ISLAMIC AZAD UNIVERSITY OF MEDICAL SCIENCE

- Sufficient acquaintance with spectroscopy devices such as UV-vis and Fluorescence spectroscopy
- Operated HPLC system and analyzed injection results

Teaching

Analytical Lab1 teaching assistant

Instructor: Dr. Ensieh Ghasemi

Fall semester 2015- 2016

TEHRAN ISLAMIC AZAD UNIVERSITY OF MEDICAL SCIENCE

- Holding session to solve exercises
- Grading homeworks

Pharmaceutical Chemistry teaching assistant

Instructor: Dr. Tanaz Zebardast

Fall semester 2017- 2018

TEHRAN ISLAMIC AZAD UNIVERSITY OF MEDICAL SCIENCE

- Holding session to solve exercises
- Grading homeworks

Academic Projects

presentation and projects

- Seminar presentation on “A review on extraction and measurement methods of phthalates in cosmetic and personal care product”, September 2019, Iran University of Science and Technology, Tehran, Iran.
- Translated a part of “Chemistry – A Molecular Approach” as Chromatography class project, 2019.
- Gave Academic Presentations on different subjects and investigated the relevant articles as class projects, 2018-2019:
 - Separation methods (Subject: HF-LPME)
 - Electrochemistry (Subject: Transistor electrochemical sensors and biosensors)
 - Spectroscopy (Subject: ICP OES (Inductively coupled plasma optical emission spectrometry))
 - Spectroscopy) Subject: Trace and ultratrace analysis of liquid samples by X-ray fluorescence spectrometry).

Membership

- Member of the Young Researchers Club at Tehran Islamic Azad University of Medical science, Tehran, Iran. 2016-2018
- Member of student's council and Science Association of Tehran Islamic Azad University of Medical science, Tehran, Iran. 2016-2018

Skills

Computer Skills Design Expert, Matlab, image j, DataApex Clarity Software

Languages Persian as a native language, Fluent in English: IELTS score 6.5(L:7.5 R:5.5 W:5.5 S:6.5), Familiar with French

Hobbies

- Swimming, Ping Pong, Painting, Cooking, Reading

References

[Dr. Afsaneh Mollahosseini](#), Associate Professor, Department of Chemistry, Iran University of Science and Technology, Tehran, Iran.
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[Dr. Rouholah Zare Dorabei](#), Associate Professor, Department of Chemistry, Iran University of Science and Technology, Tehran, Iran.
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