



# Babak Emdadi

## Instructor

babak.emdadi@khazar.org

+994 – 50 713 6561

Baku, Azerbaijan

### Educations

#### Ph.D. Nanotechnology and Nanomaterials

Khazar University

Sep 2021 - Present

#### BS Electronic Engineering

Islamic Azad University of Tabriz

Sep 2012 - Jun 2016

#### Instructor

Khazar University (Baku)

Feb 2022 – Present;

- Analog & Digital Electronics, Electrical & Electronic devices, Electrical & Measurement methods, Signals & Systems, ESP (English for Special Purpose in Electronic), Fundamentals of Electrical Engineering, Microprocessor, Digital Microelectronics, Distributed Systems

#### M.Sc. Electronic Engineering

Tabriz University

Sep 2016 - Jun 2018

### Employment History

### Courses

### Language

### Projects

### Researches

#### TOEFL (Grade: 91)

English	Turkish	Azerbaijani	Arabic	Russian
C1	★★★★☆	Mother tongue	A2	A1

#### Synthesis and characterization of quantum dot nanoparticles and their application for Khazar University

Sep 2021 - Aug 2024

#### Functionalized nanofiber-based drug delivery systems and biosensing devices for Elsevier

Apr 2023

Description:

Project Link:

<https://doi.org/10.1016/B978-0-323-99461-3.00006-6>

#### Synthesis Methods and Characterization Techniques of Fluoropolymers for Elsevier

May 2023

Project Link:

<https://doi.org/10.1016/B978-0-323-95335-1.00007-4>

#### Encapsulated liquid sorbents for sweetening of natural gas for Elsevier

Feb 2023

#### Supersonic technology for condensate removal from natural gas for Elsevier

Feb 2023

#### Structural and Optical properties of PEDOT: PSS for Integrated Ferroelectrics

Sep 2023

Project Link:

<https://doi.org/10.1080/10584587.2023.2227056>

#### Wind climates and annual energy production for Elsevier

Sep 2023

Project Link:

<https://doi.org/10.1016/B978-0-323-93940-9.00101-8>

#### Leak detection technologies in natural gas transportation and storage systems for Elsevier

Jan 2023

#### Quantum dots synthesis and application in solar cells for International Conference - ENGINEERING SCIENCES International Conference

Feb 2023

**Synthesis and Investigation of Structural and Optical properties of Nitrogen-doped Carbon Quantum Dots - International ICMECE Conference in Turkey**

Oct 2023

**Insights and difficulties in the synthesis of Carbon Quantum Dots from recyclable materials - II International Scientific Conference in Mingechevir University**

Dec 2023