

# Zarine Gevorg Simonyan

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## Research Institute of Physics

Center of Semiconductor Devices and Nanotechnologies  
Lab technician

## Education

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Radiophysics
<b>Date</b>	2020 - 2022
<b>Degree name</b>	Masters

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Radiophysics
<b>Date</b>	2016 - 2020
<b>Degree name</b>	Bachelor

## Language skills

Հայերեն Русский English

## Work experience

<b>Institution</b>	Center of Semiconductor Devices and Nanotechnology
<b>Period of time</b>	2021 till now
<b>Rank/degree</b>	Laboratory assistant

## Scientific interests

- Gas sensors
- Flexible gas sensors
- Carbon nanotubes (CNTs)

## Publications

*Article*

### **Room Temperature Detection of Hydrogen Peroxide Vapor by Fe<sub>2</sub>O<sub>3</sub>:ZnO Nanograins**

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Hayk Kasparyan,

Dušan Kopecký

Nanomaterials 2023 120

Article

**Detection of hydrogen peroxide vapor using flexible gas sensor based on SnO<sub>2</sub> nanoparticles decorated with multi-walled carbon nanotubes**

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Vladimir Aroutiounian,

Emma Khachatryan

Advances in Natural Sciences: Nanoscience and Nanotechnology 2023 025001

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Article

**Growth, Characterization, and Application of Vertically Aligned Carbon Nanotubes Using the RF-Magnetron Sputtering Method**

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Hayk Kasparyan,

Dušan Kopecký

ACS Omega 2023 20949-20958

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Article

**Flexible sensor based on multi-walled carbon nanotube-SnO<sub>2</sub> nanocomposite material for hydrogen detection**

Mikayel S Aleksanyan, Artak G Sayunts, Gevorg H Shahkhatuni, Zarine G Simonyan,

Vladimir M Aroutiounian, Gohar E Shahnazaryan

Advances in Natural Sciences: Nanoscience and Nanotechnology 2022 035003

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Patent

**Զրաձևի դետեկտոր**

Միքայել Ալեքսանյան, Արտակ Սայունց, Գևորգ Շահխաթունի, Չարինե Սիմոնյան,

Գոհար Շահնազարյան

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Conference

**Highly Sensitive Hydrogen Sensor Based on ZnO/MWCNTs Nanocomposite Material**

M.S. Aleksanyan, A.G. Sayunts, G.H. Shahkhatuni, Z.G. Simonyan, G.E. Shahnazaryan

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