

# Davit Aleksandr Kananov

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**Research Institute of Physics**  
Center for Semiconductor Devices and Nanotechnologies  
Junior Researcher

## Education

|             |                               |
|-------------|-------------------------------|
| Institution | Yerevan State University      |
| Faculty     | Radiophysics/Microelectronics |
| Date        | 2020 - 2022                   |
| Degree name | Masters                       |

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| Institution | Yerevan State University      |
| Faculty     | Radiophysics/Microelectronics |
| Date        | 2016 - 2020                   |
| Degree name | Bachelor                      |

## Language skills

Հայերեն Русский English

## Work experience

|                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| Institution    | Center of Semiconductor Devices and Nanotechnologies of Yerevan State University |
| Period of time | 2022 till now                                                                    |
| Rank/degree    | Junior Researcher                                                                |

## Publications

Article  
**SnO2/MWCNTs Nanostructured Material for High-Performance Acetone and Ethanol Gas Sensors**  
Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov, Emma Khachatryan, Rima Papovyan, Alena Michalcová, Dušan Kopecký  
ACS Omega 2025 7283-7294

Article  
**MWCNTs/Fe2O3:ZnO Nanocomposite Material for Chemoresistive Sensing of Hydrogen Peroxide Vapors**  
Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov, Hayk Kasparyan, Dušan Kopecky  
ACS Applied Electronic Materials 2024 940-949

*Article*

**Fabrication of the Fe<sub>2</sub>O<sub>3</sub>:ZnO Based Nanostructured Sensor for LPG Detection**

Mikayel Aleksanyan,, Artak Sayunts, Gevorg Shahkhatuni, Gohar Shahnazaryan, Zarine Simonyan,

Davit Kananov

e-Journal of Surface Science and Nanotechnology 2024 149-156

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*Article*

**Acetone Vapors Detection Using a MWCNTs/SnO<sub>2</sub> Nanocomposite Material**

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov,

Emma Khachaturyan, Dušan Kopecký

ACS Applied Electronic Materials 2024 4090–4098

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*Article*

**Flexible Gas Sensor Based on the RF-Grown Fe<sub>2</sub>O<sub>3</sub>:ZnO/CNTs Material for Propylene Glycol Vapor Detection**

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov,

Alena Michalcová, Lukáš Koláčný, Dušan Kopecký

ACS Applied Electronic Materials 2024 6893–6904

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*Article*

**Investigation of the MWCNT/SnO<sub>2</sub> Sensor for the Detection of Acetone Vapors**

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

H. R. Hovhannisyan, D. A. Kananov

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 67-72

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*Article*

**Optoelectronic Transimpedance Converter Based on MOS Photovaricap for High Resistive Gas Sensors**

Semerjyan B.O., D.A. Kananov, M.S. Alexanyan

Armenian Journal of Physics 2023 119 -125

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