

Давит Александрович Кананов

✉ d.kananov@ysu.am

Научно-исследовательский институт физики
Երոսֆազիտոսթյան և նանոտեխնոլոգիաների գիտական կենտրոն
Младший научный сотрудник

Образование

Учреждение	Ереванский государственный университет
Факультет	Радиофизика/Микроэлектроника
Дата	2020 - 2022
Степень / Звание	Магистр

Учреждение	Ереванский государственный университет
Факультет	Радиофизика/Микроэлектроника
Дата	2016 - 2020
Степень / Звание	Бакалавр

Знание языков

Հայերեն Русский English

Опыт работы

Учреждение	Центр полупроводниковых приборов и нанотехнологий Ереванского государственного университета
Период времени	2022 до настоящего времени
Звание/степень	Младший научный сотрудник

Публикации

Статья
Ultra-high selective hydrogen peroxide vapor sensor based on the Fe₂O₃/MWCNTs nanocomposite
Artak Sayunts, Rima Papovyan, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov, Gabriel Gevorgyan, Dušan Kopecký, Mikayel Aleksanyan
International Journal of Smart and Nano Materials 2026 2637516
<https://www.tandfonline.com/doi/full/10.1080/19475411.2026.2637516>

Статья
Enhanced Humidity Sensing Performance of Fe₂O₃:ZnO/MWCNTs Nanocomposite: Fabrication and Characterization
Artak Sayunts, Gevorg Shahkhatuni, Rima Papovyan, Zarine Simonyan, Davit Kananov,

Gohar Shahnazaryan, Gabriel Gevorgyan, Andranik Grigoryan, Dušan Kopecký, Mikayel Aleksanyan
ACS Omega 2026 31627–31638
<https://doi.org/10.1021/acsomega.6c02389>

Статья

SnO₂/MWCNTs Nanostructured Material for High-Performance Acetone and Ethanol Gas Sensors

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov,
Emma Khachaturyan, Rima Papovyan, Alena Michalcová, Dušan Kopecký
ACS Omega 2025 7283-7294

Статья

Fabrication and Characterization of MWCNTs Decorated ZnO Nanograins Based Sensor for Enhanced Performance Toward CO₂ Gas

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov,
Rima Papovyan, Dušan Kopecký
Advanced Materials Interfaces 2025 2500185

Статья

Influence of the Growth Parameters on RF-Sputtered CNTs and Their Temperature-Selective Application in Gas Sensors

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov,
Rima Papovyan, Dušan Kopecký
ACS Omega 2025 34733–34746

Статья

Highly Sensitive Ammonia Gas Sensor Based on MWCNTs Saturated Fe₂O₃ Nanograins

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov,
Andranik Grigoryan, Rima Papovyan, Dušan Kopecký
Langmuir 2025 26614–26627

Конференция

Fabrication and Characterization of CO₂ Sensor Using ZnO Nanograins

M. Aleksanyan, G. Shahkhatuni, Z. Simonyan, G. Shahnazaryan, R. Papovyan, D. Kananov, A. Grigoryan,
G. Gevorgyan, G. Stepanyan, A. Sayunts
2025 307-308
<https://www.smsi-conference.com/>

Статья

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

Статья

Fabrication of the Fe₂O₃:ZnO Based Nanostructured Sensor for LPG Detection

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

Статья

Acetone Vapors Detection Using a MWCNTs/SnO₂ Nanocomposite Material

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

Emma Khachaturyan, Dušan Kopecký

ACS Applied Electronic Materials 2024 4090–4098

Статья

Flexible Gas Sensor Based on the RF-Grown Fe₂O₃: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

Статья

Investigation of the MWCNT/SnO₂ 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

Статья

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
