Геворг Арутюнович Шахатуни

gevshahkhatuni@ysu.am

Научно-исследовательский институт физики
Центр полупроводниковых приборов и нанотехнологий
Научный сотрудник

Знание языков

Հայերեն Русский English

Публикации

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

Study of a Nanostructured Co-Doped SnO2 Sensor for Hydrogen Peroxide Vapor Detection Using Impedance Spectroscopy
Gohar Shahnazaryan, Mikayel Aleksanyan, Artak Sayunts, Zarine Simonyan, Rima Papovyan,

Gevorg Shahkhatuni
ACS Omega 2025 14452 - 14465

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

Статья

Fabrication and characterization of highly responsive hydrogen sensor based on Fe2O3:ZnO nanostructured thin film
Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Gohar Shahnazaryan,

Vladimir Aroutiounian
Measurement: Sensors 2024 100984

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

Room Temperature Detection of Hydrogen Peroxide Vapor by Fe2O3:ZnO Nanograins
Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Hayk Kasparyan,

Dušan Kopecký

Nanomaterials 2023 120

Статья

Detection of hydrogen peroxide vapor using flexible gas sensor based on SnO2 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

Статья

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

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

Investigation of Nanostructured Fe2O3:ZnO Sensor by Impedance Spectroscopy
G. H. Shahkhatuni

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 385-390

Статья

Flexible SnO2⟨Co⟩/MWCNT Sensor for Detection Low Concentrations of Hydrogen Peroxide Vapors
M. S. Aleksanyan, A. G. Sayunts, G. H. Shahkhatuni, Z. G. Simonyan, V. M. Aroutiounian,

G. E. Shahnazaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 133-139

Статья

Use of Nanostructured Fe2O3:ZnO Film for Detection of Hydrogen
M. S. Aleksanyan, A. G. Sayunts, G. H. Shahkhatuni, Z. G. Simonyan, G. E. Shahnazaryan,

V. M. Aroutiounian
Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 140-145

Статья

Investigations of the Impedance Characteristics of a Nanostructured ZnO⟨La⟩ Sensor for Hydrogen Peroxide Vapors
G.E. Shahnazaryan, G.A. Shahkhatuni, M.S. Aleksanyan, Z.G. Simonyan, V.M. Aroutiounian, A.G. Sayunts

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 254–262

Статья

Gas Sensor Based on ZnO Nanostructured Film for the Detection of Ethanol Vapor
Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Gohar Shahnazaryan,

Vladimir Aroutiounian
Chemosensors 2022 245/17

Статья

Flexible sensor based on multi-walled carbon nanotube-SnO2 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

Статья

Study of Gas Sensitivity of SnO2 ⟨Nb⟩ Film in Liquefied Petroleum Gas
M. S. Aleksanyan, A. G. Sayunts, G. H. Shahkhatuni, G. E. Shahnazaryan, V. M. Aroutiounian

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 139-145

Статья

Influence of Ultraviolet Rays on Sensitivity of Sensors for Acetone Vapor Detection
M. S. Aleksanyan, A. G. Sayunts, V. M. Aroutiounian, G. E. Shahnazaryan, G. H. Shahkhatuni

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 109-116

Статья

Magnetron Sputtered ZnO Thin Films for Hydrogen Peroxide Vapor Detection
Mikayel ALEKSANYAN, Vladimir AROUTIOUNIAN, Valeri ARAKELYAN, Gohar SHAHNAZARYAN,

Gevorg SHAHKHATUNI
Sensors & Transducers 2020 23-31

Статья

Исследование сенсора на основе ZnO:La для детектирования паров перекиси водорода методом импедансной спектроскопии
Г.А. Шахатуни, В.М. Арутюнян, В.М. Аракелян, М.С. Алексанян, Г. Э. Шахназарян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2019

253-262

Статья

Investigation of sensor made of ZnO:La for detection of hydrogen peroxide vapours by impedance spectroscopy method
G. H. Shahkhatuni, V. M. Aroutiounian, V. M. Arakelyan, M. S. Aleksanyan, G. E. Shahnazaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 188-195

Статья

Conductometric sensor for hydrogen peroxide vapors detection
G. H. Shahkhatuni, V. M. Aroutiounian, V. M. Arakelyan, M. S. Aleksanyan, G. E. Shahnazaryan

Armenian Journal of Physics 2018 153-159

Конференция

Hydrogen Peroxide Vapor Sensor Based on Zinc Oxide
V. M. Aroutiounian, M. S. Aleksanyan, V. M. Arakelyan, G. E. Shahnazaryan, G. H. Shahkhatuni

---

Патент

Ջրածնի պերօքսիդի գոլորշիներ հայտնաբերող սենսորի պատրաստման եղանակ
Ալեքսանյան Միքայել Սերյոժայի, Հարությունյան Վլադիմիր Միխաիլի, Շահնազարյան Գոհար Էմիլի,

Շահխաթունի Գևորգ Հարությունի

Патент

Ջրածնի նանոկառուցվածքային ռեզիստիվ սենսոր
Ալեքսանյան Միքայել Սերյոժայի, Սայունց Արտակ Գարեգինի, Շահխաթունի Գևորգ Հարությունի,

Սիմոնյան Զարինե Գևորգի, Շահնազարյան Գոհար Էմիլի, Հարությունյան Վլադիմիր Միխաիլի

Патент

Ջրածնի դետեկտոր
Միքայել Ալեքսանյան, Արտակ Սայունց, Գևորգ Շահխաթունի, Զարինե Սիմոնյան,

Գոհար Շահնազարյան

Конференция

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

---

Конференция

A Chemiresitive Gas Sensor Based on SnO2:ZnO Nanostructured Thin Film for the Detection of Hydrogen Peroxide Vapor
Mikayel Seryozha Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Vladimir Aroutiounian,

Gohar Shahnazaryan

Конференция

Highly Sensitive Hydrogen Gas Sensor Based on Fe2O3:ZnO Nanostructured Thin Film
Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Gohar Shahnazaryan,

Vladimir Aroutiounian
