

Emma Arseni Khachatryan

✉ emmakhachatryan@ysu.am

Research Institute of Physics

Center of Semiconductor Devices and Nanotechnologies
Researcher

🌐 Language skills

Հայերեն Русский English

📖 Publications

Article

Acetone Vapors Detection Using a MWCNTs/SnO₂ Nanocomposite Material

Mikayel Aleksanyan, Artak Sayunts, Gevorg Shahkhatuni, Zarine Simonyan, Davit Kananov,
Emma Khachatryan, Dušan Kopecký

ACS Applied Electronic Materials 2024 4090–4098

Article

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

Article

Investigation of the MWCNT/SnO₂ Sensor for the Detection of Acetone Vapors

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

H. R. Hovhannisyan, D. A. Kananov

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

Article

Study of MWCNT / SnO₂/Ru thick-film sensors for detecting the presence of certain harmful gases in air

Z.N. Adamyan, A.G. Sayunts, E.A. Khachatryan, V.M. Aroutiounian

Armenian Journal of Physics 2021 49-73

Article

Tin Oxide/Carbon Nanotube Nanocomposite Sensors for Some Toxic VOCs Detection

Z.N. Adamyan, A.G. Sayunts, E.A. Khachatryan, V.M. Aroutiounian

South Florida Journal of Development 2021 1067-1093

Article

Nanocomposite H₂O₂ Vapor Sensors Made on the Base of Carbon Nanotubes Covered with SnO₂ Nanoparticles

Zaven ADAMYAN, Artak SAYUNTS, Emma KHACHATURYAN, Valeri ARAKELYAN, Vladimir AROUTIOUNIAN,

Bernth JOOST

Article

ИССЛЕДОВАНИЕ СЕНСОРОВ ПАРОВ ПЕРЕКИСИ ВОДОРОДА, ИЗГОТОВЛЕННЫХ НА ОСНОВЕ УГЛЕРОДНЫХ НАНОТРУБОК, ПОКРЫТЫХ НАНОЧАСТИЦАМИ ДВУОКИСИ ОЛОВА
З.Н. АДАМЯН, А.Г. САЮНЦ, Э.А. ХАЧАТУРЯН, В.М. АРАКЕЛЯН, В.М. АРУТЮНЯН, В. JOOST

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 75-84

Article

Study of Hydrogen Peroxide Vapors Sensors Based on Carbon Nanotubes Coated with Tin Oxide Nanoparticles

Z. N. Adamyan, A. G. Sayunts, E. A. Khachaturyan, V. M. Araqelyan, V. M. Aroutiounian, B. Joost

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 57-64

Article

Nanocomposite sensors of propylene glycol, dimethylformamide and formaldehyde vapors

Zaven Adamyan, Artak Sayunts, Vladimir Aroutiounian, Emma Khachaturyan, Martin Vrnata, Přemysl Fitl,

Jan Vlcek

Journal of Sensors and Sensor Systems 2018 31-41

Article

Study of Propylene Glycol, Dimethylformamide and Formaldehyde Vapors Sensors Based on MWCNTs/SnO₂ Nanocomposites

Zaven Adamyan, Artak Sayunts, Vladimir Aroutiounian, Emma Khachaturyan, Arsen Adamyan,

Martin Vrnata, Přemysl Fitl, Jan Vlček

Sensors & Transducers 2017 38-45

<http://www.sensorsportal.com/HTML/DIGEST/Submission.htm>

Article

Исследование нанокompозитных толстопленочных сенсоров паров бутанола

З.Н. Адамян, А.Г. Саюнц, Э.А. Хачатрян, В.М. Арутюнян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 192-201

<http://www.flib.sci.am/eng/Fizika/Frame.html>

Article

Study of Nanocomposite Thick-Film Butanol Vapor Sensors

Z.N. Adamyan, A.G. Sayunts, E.A. Khachaturyan, V.M. Aroutiounian

Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 143-149

<http://www.springer.com/physics/particle+and+nuclear+physics/journal/11958>

Article

Comparative Study of VOC Sensors Based on Ruthenated MWCNT/SnO₂ Nanocomposites

Vladimir Aroutiounian, Zaven Adamyan, Artak Sayunts, Emma Khachaturyan, Arsen Adamyan,

Klara Hernadi, Zoltan Nemeth, Peter Berki

International journal of Emerging Trends in Science and Technology 2014 1309-1319

<http://ijetst.in/>

Conference

Study of propylene glycol and dimethylformamide vapors sensors based on MWCNTs/SnO₂ nanocomposites

Z. Adamyan, A. Sayunts, V. Aroutiounian, E. Khachaturyan, A. Adamyan, M. Vrnata, P. Fitl, J. Vlček

Conference

Study of MWCNT/SnO₂ Nanocomposite Acetone and Toluene Vapor Sensors

Vladimir M. Aroutiounian, Zaven N. Adamyan, Artak G. Sayunts, Emma A. Khachaturyan,

Arsen Z. Adamyan

Conference

MWCNTs/SnO₂ Harmful Gas Sensors

Z. Adamyan, A. Sayunts, V. Aroutiounian, E. Khachaturyan, A. Adamyan, M. Vrnata, P. Fitl, J. Vlček

Conference

STUDY OF MWCNTs/SnO₂ NANOCOMPOSITE FORMALDEHYDE GAS SENSOR

Z.N. Adamyan, A.G. Sayunts, E.A. Khachaturyan, V.M. Aroutiounian

Conference

Study of MWCNTs/SnO₂ Nanocomposite H₂O₂ Vapor Sensors

Z. N. Adamyan, A. G. Sayunts, E. A. Khachaturyan, V. M. Araqelyan, V. M. Aroutiounian, B. Joost

Patent

Արդյունաբերական թունավոր նյութերի ռեզիստիվ սենսոր

Հարությունյան Վլադիմիր Միխայիլի, Առաքելյան Վալերի Միքայելի, Վրնատա Մարտին,
Ալեքսանյան Միքայել Սերյոժայի, Ադամյան Չավեն Նիկոլայի, Սայունց Արտակ Գարեգինի,
Շահնազարյան Գոհար Էմիլի, Ադամյան Արսեն Չավենի, Խաչատուրյան Էմմա Արսենի,
Ֆիտլ Պրեմիսլ, Վլչեկ Յան
