

Hayk Sergey Kasparyan

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Research Institute of Physics
Նյութագիտության և Նաևոտեխնոլոգիաների գիտական կենտրոն
Scientific Worker

Education

Institution National Institute of Health
Faculty Department of Pharmacology
Date 2010 - 2011
Degree name Qualified specialist

Institution Yerevan State University
Faculty Faculty of Chemistry
Date 2005 - 2010
Degree name Masters

Scientific Rank/degree

Institution - Other -
Date 2024
Degree name Candidate
Scientific Supervisor Assoc. Prof. Dušan Kopecký, Ph.D.
Research Topic Sensors of physical quantities based on nanostructured conducting polymers

Work experience

Institution Department of Mathematics, Informatics and Cybernetics, UCT Prague
Period of time 2019 - 2024
Rank/degree Ph D student

Institution National Bureau of Expertises SNPO, Republic of Armenia
Period of time 2014 - 2018
Rank/degree Head of Drugs, Psychoactive Substances and Poisons Examinations Unit

Institution National Bureau of Expertises SNPO, Republic of Armenia
Period of time 2013 - 2014
Rank/degree Forensic Expert of Physical Technical Examinations and Chemical Expertises
Department

Institution "Alfa-Pharm" pharmacy chain

Period of time	2010 - 2013
Rank/degree	Pharmacist



Participation in international conferences and seminars

31/10/2017 - 02/11/2017	The first Best Practice Manual Subcommittee meeting of ENFSI Drugs Working Group Copenhagen Denmark
23/10/2017 - 24/10/2017	International Conference on "Novel Psychoactive Substances" Vienna Austria
27/06/2016 - 08/07/2016	European Drugs Summer School 2016 "Illicit drugs in Europe: demand, supply and public policies" Lisbon Portugal
05/05/2015 - 08/05/2015	21st ENFSI Drugs Working Group Meeting Dublin Ireland
20/05/2014 - 22/05/2014	20th ENFSI Drugs Working Group Meeting Espoo Finland



Publications

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 Kopecký

ACS Applied Electronic Materials 2024 940-949

Article

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

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,

Article

Electromechanical properties of melamine foams covered by polypyrrole nanotubes and carbonaceous fillers

Hayk Kasparyan, Fatima Hassouna, Jan Prokeš, Ivo Křivka, Miloslav Lhotka, Miroslava Trchová, Pavel Sialini, Dušan Kopecký

Sensors and Actuators A Physical 2023 114160 - 114160

<https://doi.org/10.1016/j.sna.2023.114160>

Article

Pressure-Sensitive Conducting and Antibacterial Materials Obtained by in Situ Dispersion Coating of Macroporous Melamine Sponges with Polypyrrole

Jaroslav Stejskal, Miroslava Trchová, Hayk Kasparyan, Dušan Kopecký, Zdeňka Kolská, Jan Prokeš, Ivo Křivka, Jan Vajdák, Petr Humpolíček

ACS Omega 2021 20895 - 20901

<https://doi.org/10.1021/acsomega.1c02330>

Article

Melamine Sponges Decorated with Polypyrrole Nanotubes as Macroporous Conducting Pressure Sensors

Jaroslav Stejskal, Dušan Kopecký, Hayk Kasparyan, Jarmila Vilčáková, Jan Prokeš, Ivo Křivka

ACS Applied Nano Materials 2021 7513 - 7519

<https://doi.org/10.1021/acsanm.1c01634>

Article

One-Dimensional Nanostructures of Polypyrrole for Shielding of Electromagnetic Interference in the Microwave Region

Robert Moučka, Michal Sedláčik, Hayk Kasparyan, Jan Prokeš, Miroslava Trchová, Fatima Hassouna,

Dušan Kopecký

International Journal of Molecular Sciences 2020 8814 - 8814

<https://doi.org/10.3390/ijms21228814>

Article

Electromagnetic interference shielding of polypyrrole nanostructures

Robert Moučka, Michal Sedláčik, Jan Prokeš, Hayk Kasparyan, Stanislav Valtera, Dušan Kopecký

Synthetic Metals 2020 116573 - 116573

<https://doi.org/10.1016/j.synthmet.2020.116573>
