Hayk Sergey Kasparyan

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Research Institute of Physics
Նյութագիտության և նանոտեխնոլոգիաների գիտական կենտրոն
Scientific Worker

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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 Kopecky

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, Dušan Kopecký

ACS Omega 2023 20949-20958

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 Vajďák, 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 Sedlačík, 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 Sedlačík, Jan Prokeš, Hayk Kasparyan, Stanislav Valtera, Dušan Kopecký

Synthetic Metals 2020 116573 - 116573

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