Մկրտիչ Ալեքսանի Երանոսյան

myeranos@ysu.am

Կոնդենսացված վիճակի ֆիզիկայի կենտրոն
Պինդ մարմնի ֆիզիկայի լաբորատորիա
Ավագ գիտական աշխատող
Ֆիզիկայի գիտահետազոտական ինստիտուտ
Կոնդենսացված վիճակի ֆիզիկայի կենտրոն
Պինդ մարմնի ֆիզիկայի լաբորատորիա
Ավագ գիտական աշխատող
Ֆիզիկայի ինստիտուտ
Կոնդենսացված վիճակի ֆիզիկայի ամբիոն
դասախոս/ժամավճարով

Հրապարակումներ

Հոդված
Novel observation of SEIRA and SERS in aluminum-doped ZnO–BSA protein corona complexes
Astghik S. Tsokolakyan, Vardan A. Hayrapetyan, Heriqnaz V. Asatryan, Avetis S. Simonyan,
Alexandr Dejneka, Mkrtich A. Yeranosyan
Optical Materials 2026 118036
https://www.sciencedirect.com/science/article/pii/S0925346726001965?via%3Dihub

Հոդված
Urea Detection in Phosphate Buffer and Artificial Urine: A Simplified Kinetic Model of a pH-Sensitive EISCAP Urea Biosensor
Karen Simonyan, Astghik Tsokolakyan, Vahe Buniatyan, Artem Badasyan, Mkrtich Yeranosyan
Sensors 2025 6596

Հոդված
ι-Carrageenan Manganese Oxide Bionanocomposites as a Promising Solution to Agricultural Challenges
Spartak S Khutsishvili, Nino Gagelidze, Astghik S Tsokolakyan, Mkrtich A Yeranosayn, Eteri Tkesheliadze,
Vardan A Sargsyan, Darejan Dughashvili, Natela Dzebisashvili, Keso Aronia, Archil Benashvili,
Dali Dzanashvili, Irine Gurgenidze, Grigor Tatishvili, Paula Fraga-García
MATERIALS 2025 495

Հոդված
PEGylated Albumin-Based Drug Carriers for the Treatment of Experimental Stroke
Nazeli Zaqaryan, Rita Khallouf, Arpi Manukyan, Vahe Atoyan, Astghik Tsokolakyan,
Mkrtich A Yeranosyan, Samvel G Chailyan, Kristine E Danielyan
The Open Biotechnology Journal 2025 e18740707379038

Հոդված
Effect of Pyrolysis Temperature on the Performance of Malt Biochar in Cement Mortars
Roza Shainova, Nelli Muradyan, Avetik Arzumanyan, Marine Kalantaryan, Rafayel Sukiasyan,
Mkrtich Yeranosyan, Yeghvard Melikyan, Avetis Simonyan, David Laroze, Elisabetta Zendri,

Manuk Barseghyan
Mathematics MDPI 2025 5105

Հոդված

Proline-rich peptide-linked albumin particles in an experimental oxidative brain damage model

Kristine Edgar Danielyan, Nazeli Zaqaryan, Rita Khallouf, Maria Kojoyan, Kristine Tspnetsyan, Arpi Manukyan, Astghik Tsokolakyan, Mkrtich Alexan Yeranosyan, Samvel G. Chailyan

Bioactive Compounds in Health and Disease - Online ISSN 2574-0334 Print ISSN 2769-2426 2025 527-544

Հոդված

Urea Biosensor Based on a Field-Effect Capacitor Modified With a Stacked Weak Polyelectrolyte/Enzyme Bilayer

Astghik S. Tsokolakyan, Vardan A. Hayrapetyan, Derenik K. Petrosyan, Melanie Welden, Heiko Iken, Michael J. Schöning, Mkrtich A. Yeranosyan, Arshak Poghossian

Electrochemical Science Advances 2025 e70013

Հոդված

Impact of Rashba Spin-Orbit Interaction on Electron Mobility in GaN Nanowires due to Scattering by Acoustic Phonons [Влияние спин-орбитального взаимодействия Рашбы на подвижность электронов в нанопроволоках GaN прирассеянии на акустических фононах]

A. Vartanian, A. Asatryan, M. Yeranosyan, A. Stepanyan, G. Khachatryan, S. Hayrapetyan, Y.-H. Xie

Journal of Contemporary Physics (Armenian Academy of Sciences) 2025 418–422

https://link.springer.com/article/10.1134/S1068337226700167

Հոդված

E-beam induced micropattern generation and amorphization of L-cysteine-functionalized graphene oxide nano-composites

Y. Melikyan, H. Gharagulyan, A. Vasil'ev, V. Hayrapetyan, M. Zhezhu, A. Simonyan, D.A. Ghazaryan, M.S. Torosyan, A. kharatyan, J. Michalicka, M. Yeranosyan

Colloids and Interface Science Communications 2024 100766-7

Հոդված

Formation of zinc oxide composites of doxycycline with high antibacterial activity based on DC-magnetron deposition of ZnO nanoscale particles on the drug surface

Ashkhen L. Zatikyan, Armen I. Martiryan, Emma R. Arakelova, Ashot M. Khachatryan, Anait A. Mirzoian, Susanna L. Grigoryan, Rafayel E. Muradyan, Hrachik R. Stepanyan, Stepan G. Grigoryan, Mcrtich A. Yeranosyan

Applied Physics A 2024 152

Հոդված

Effect of Silica Fume Concentration and Water–Cement Ratio on the Compressive Strength of Cement-Based Mortars

Maria M. Badalyan, Nelli G. Muradyan, Roza S. Shainova, Avetik A. Arzumanyan, Marine A. Kalantaryan, Rafayel R. Sukiasyan, Mkrtich Yeranosyan, David Laroze, Yeghiazar V. Vardanyan, Manuk G. Barseghyan

Buildings 2024 757

Հոդված

Improving the electro-optical properties of MoS2/rGO hybrid nanocomposites using liquid

crystals
A. Vasil'ev, Y. Melikyan, M. Zhezhu, V. Hayrapetyan, M.S. Torosyan, D.A. Ghazaryan, M. Yeranosyan,

H. Gharagulyan

Materials Research Bulletin 2024 113036

Հոդված

Broadband THz metasurface bandpass filter/antireflection coating based on metalized Si cylindrical rings
Karen Simonyan, Hermine Gharagulyan, Henrik Parsamyan, Ashot Khachatryan, Mkrtich Yeranosyan

Semiconductor Science and Technology 2024 095012

Գիտաժողովի նյութ

Stability Controlling of L-arginine- and L-nitroarginine-Functionalized Graphene Oxide
Yeghvard MELIKYAN, Alexey VASIL’EV, Marina ZHEZHU, Elen MNATSAKANYAN, Deren PETROSYAN,

Mkrtich YERANOSYAN, Ruben APREYAN, Hermine GHARAGULYAN

2024 48 - 48

https://ambra.pwr.edu.pl/

Հոդված

Essential L-Amino Acid-Functionalized Graphene Oxide for Liquid Crystalline Phase Formation
H. Gharagulyan, Y. Melikyan, V. Hayrapetyan, Kh. Kirakosyan, D.A. Ghazaryan, M. Yeranosyan

Materials Science and Engineering B 2023 116564

Հոդված

The Use of Biosilica to Increase the Compressive Strength of Cement Mortar: The Effect of the Mixing Method
Nelli G. Muradyan, Avetik A. Arzumanyan, Marine A. Kalantaryan, Yeghiazar V. Vardanyan,

Mkrtich Yeranosyan, Malgorzata Ulewicz, David Laroze, Manuk G. Barseghyan

MATERIALS 2023 5516

Հոդված

Նանոտեխնոլոգիաներն արմատապես փոխում են երկրների ռազմավարական առաջնահերթությունները
Մկրտիչ Երանոսյան
Գիտության աշխարհում 2023 34-41

Գիտաժողովի նյութ

Filtering of terahertz radiation by a metasurface structure
Simonyan Karen, Parsamyan Henrik, Gharagalyan Hermine, Khachatryan Ashot, Yeranosyan Mkrtich

2023 48 - 48

http://www.docriga.lv/doc/history

Հոդված

Antibacterial activity of royal jelly-mediated green synthesized silver nanoparticles
Susanna Gevorgyan, Robin Schubert, Mkrtich Yeranosyan, Lilit Gabrielyan, Armen Trchounian,

Kristina Lorenzen, Karen Trchounian

AMB Express 2021 51

Գիտաժողովի նյութ

Royal Jelly in the Development of Nano-strategies against Pathogenic Bacteria
S. Gevorgyan, M. Yeranosyan, R. Schubert, A. Trchounian

2020 1-1

https://asm.org/Events/ASM-Microbe-Online/Home

Հոդված

Zinc Oxide Composites of Doxorubicin in the Form of Coating, Composite Films and Gels with a High Antitumor Activity and Low Toxicity
Emma R. Arakelova, Stepan G. Grigoryan, Ashot M. Khachatryan, Anahit A. Mirzoian, Zoya M. Farmazyan,

Susanna L. Grigoryan, Mkrtich A. Yeranosyan, Flora G. Arsenyan, Rafayel E. Muradyan,

Hrachik V. Gasparyan

Electronic Journal of Natural Sciences of NAS RA 2019 61-73

Գիտաժողովի նյութ

Investigation of Antibacterial Properties of Green Synthesized Silver Nanoparticles
S. Gevorgyan, M. Yeranosyan, R. Schubert, A. Trchounian

2019 59-61

https://anam2019.org/index.php

Հոդված

Energy loss rate of hot electrons due to polar-optical phonon modes in a semiconductor nanowire under transverse electric field
A. Stepanyan, A. Asatryan, M. Yeranosyan, K. Vardanyan, A. Kirakosyan, A. Vartanian

Physica B Condensed Matter 2018 340-346

Գիտաժողովի նյութ

The influence of the transverse electric field on the hot electron energy loss rate via polar-optical phonons in nanowires
A.Asatryan, A.Stepanyan, M.Yeranosyan, A.Kirakosyan, A.Vartanian

2018 El-P-3

http://www.irphe.am/?q=irphe_2018

Հոդված

Energy-loss rate of hot electrons due to confined acoustic phonon modes in a semiconductor quantum wire under transverse electric field.
A. Stepanyan, M. Yeranosyan, L. Vardanyan, A. Asatryan, A. Kirakosyan, A. Vartanian

Physica B Condensed Matter 2017 102-107

http://www.journals.elsevier.com/physica-b-condensed-matter

Հոդված

Influence of spin–orbit interactions on the polaron properties in wurtzite semiconductor quantum well
Mkrtich A. Yeranosyan, Arshak L. Vartanian, Karen A. Vardanyan

Physica E: Low-dimensional Systems and Nanostructures 2016 330-335

http://www.journals.elsevier.com/physica-e-low-dimensional-systems-and-nanostru...

Հոդված

Phonon confinement effect on the polaron states in a double quantum ring structure in the presence of electric and magnetic fields
Mkrtich A. Yeranosyan, Arshak L. Vartanian, Abbas Shahbandari, Albert A. Kirakosyan

Physica B Condensed Matter 2015 365-370

http://www.journals.elsevier.com/physica-b-condensed-matter

Գիտաժողովի նյութ

Spin-orbit interaction enhanced polaron effect in wurtzite semiconductor quantum well.

M.A. Yeranosyan, K.A. Vardanyan, A.L. Vartanian, A.A. Kirakosyan

2015 45-47

http://www.dom-events.org/

Գիտաժողովի նյութ

Effect of Rashba and Dresselhaus spin-orbit interactions on the polaron properties in wurtzite semiconductor quantum dot in the presence of external fields.

M.A. Yeranosyan, K.A. Vardanyan, A.L. Vartanian, A.A. Kirakosyan

2015 110-110

http://edison19.usal.es/