

Ֆիզիկայի գիտահետազոտական ինստիտուտ
Պինդ մարմնի ֆիզիկայի լաբորատորիա
Ավագ գիտաշխատող

📖 Հրատարակումներ

Հոդված

l-Carrageenan Manganese Oxide Bionanocomposites as a Promising Solution to Agricultural Challenges

Spartak S Khutsishvili, Nino Gagelidze, Astghik S Tsokolakyan, Mkrtich A Yeranosyan, Eteri Tkesheliadze, Vardan A Sargsyan, Darejan Dughashvili, Natela Dzebisashvili, Keso Aronia, Archil Benashvili, Dali Dzanashvili, Irine Gurgenedze, Grigor Tatishvili, Paula Fraga-García

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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

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PEGylated Albumin-Based Drug Carriers for the Treatment of Experimental Stroke

Nazeli Zaqaryan, Rita Khallouf, Arpi Manukyan, Vahe Atoyanyan, Astghik Tsokolakyan,

Mkrtich A Yeranosyan, Samvel G Chailyan, Kristine E Danielyan

Open Biotechnology Journal 2025 e18740707379038

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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

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

Kristine Edgar Danielyan, Nazeli Zaqaryan, Rita Khallouf, Maria Kojoyan, Kristine Tspnetsyanyan,

Arpi Manukyan, Astghik Tsokolakyan, Mkrtich Alexan Yeranosyan, Samvel G. Chailyan

Bioactive Compounds in Health and Disease 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 Poghosyan

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,

Mkrtich A. Yeranosyan

Applied Physics A: Materials Science and Processing 2024 152

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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

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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

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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

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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

Նանոտեխնոլոգիաներն արմատապես փոխում են երկրների ռազմավարական առաջնահերթությունները

Մկրտիչ Երանոսյան

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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, Mkrtych Yerosyan, Malgorzata Ulewicz, David Laroze, Manuk G. Barseghyan
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Հոդված

Antibacterial activity of royal jelly-mediated green synthesized silver nanoparticles

Susanna Gevorgyan, Robin Schubert, Mkrtych Yerosyan, Lilit Gabrielyan, Armen Trchounian, Kristina Lorenzen, Karen Trchounian
AMB Express 2021 51

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, Mkrtych A. Yerosyan, Flora G. Arsenyan, Rafayel E. Muradyan, Hrachik V. Gasparyan
Electronic Journal of Natural Sciences of NAS RA 2019 61-73

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. Yerosyan, K. Vardanyan, A. Kirakosyan, A. Vartanian
Physica B: Condensed Matter 2018 340-346

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. Yerosyan, 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

Mkrtych A. Yerosyan, 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

Mkrtych A. Yerosyan, 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

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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

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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

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Investigation of Antibacterial Properties of Green Synthesized Silver Nanoparticles

S. Gevorgyan, M. Yeranosyan, R. Schubert, A. Trchounian

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Filtering of terahertz radiation by a metasurface structure

Simonyan Karen, Parsamyan Henrik, Gharagalyan Hermine, Khachatryan Ashot, Yeranosyan Mkrich

Գիտաժողովի նյութ

Stability Controlling of L-arginine- and L-nitroarginine-Functionalized Graphene Oxide

Yeghvard MELIKYAN, Alexey VASIL'EV, Marina ZHEZHU, Elen MNATSAKANYAN, Deren PETROSYAN,

Mkrich YERANOSYAN, Ruben APREYAN, Hermine GHARAGULYAN

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Royal Jelly in the Development of Nano-strategies against Pathogenic Bacteria

S. Gevorgyan, M. Yeranosyan, R. Schubert, A. Trchounian
