

Ֆիզիկայի ինստիտուտ

Օպտիկայի և ֆոտոնիկայի ամբիոն
Ասիստենտ

📖 Հրատարակումներ

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Dual effect of L-Cysteine on the reorientation and relaxation of Fe₃O₄-decorated graphene oxide liquid crystals

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Heliyon 2025 e43010

Հոդված

L-cysteine polymorph coatings for THz sensing metasurfaces

M. Zhezhu, A. Vasil'ev, H. Parsamyan, T. Abrahamyan, G. Baghdasaryan, S. Gyoalyan, D. Ghazaryan,

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Results in Physics 2025 108351

Հոդված

Chemical vapor deposition synthesis of (GeTe)_n(Sb₂Te₃) gradient crystalline films as promising planar heterostructures

M. Zhezhu, A. Vasil'ev, M. Yapryntsev, E. Ghalumyan, D.A. Ghazaryan, H. Gharagulyan

Materials Science in Semiconductor Processing 2025 109863

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Revisiting THz absorption in GO and rGO liquid crystalline films

A. Vasil'ev, M. Zhezhu, H. Parsamyan, G. Baghdasaryan, M. Sargsyan, D.A. Ghazaryan, H. Gharagulyan

Optics and Laser Technology 2025 113628

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

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M.S. Torosyan, A. kharatyan, J. Michalicka, M. Yeranosyan

Colloids and Interface Science Communications 2024 100766-7

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

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Materials Research Bulletin 2024 113036

Հոդված

Broadband THz metasurface bandpass filter/antireflection coating based on metalized Si cylindrical rings

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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. Yeranossyan

Materials Science and Engineering: B 2023 116564

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Strong light absorption and absorption absence in photonic crystals with helical structure in an external static magnetic field

A. H. Gevorgyan, N. A. Vanyushkin, I. M. Efimov, A. O. Kamenev, S. S. Golik, H. Gharagulyan,

T. M. Sarukhanyan, Malek G. Daher, K. B. Oganesyan

Journal of the Optical Society of America B: Optical Physics 2023 1986-1993

Հոդված

Magnetically Induced Transparency in Media with Helical Dichroic Structure

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Meruzhan Z. Hautyunyan, Ilya M. Efimov, Nikolay A. Vanyushkin, Sergey S. Golik, Ashot H. Gevorgyan

MATERIALS 2021 2172

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Multimode Robust Lasing in a Dye-Doped Polymer Layer Embedded in a Wedge-Shaped Cholesteric

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Ashot H. Gevorgyan, Roman B. Alaverdyan

Molecules 2021 6089

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Lasing peculiarities in cholesteric multilayer structure with dye-doped polymer film depending on the concentration of laser dye and pumping energy

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Molecular Crystals and Liquid Crystals 2020 15-25

Հոդված

Spectral Peculiarities of Multilayer Cholesteric Wedge-Cell System with Dye-Doped Polymer Layer

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Optics and Spectroscopy 2020 1644-1648

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Diffusion in liquid crystals of two cholesterics with different pitches.

Ashot H. Gevorgyan, Roman B. Alaverdyan, Hermine Gharagulyan, Mushegh S. Rafayelyan,

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Journal of Nanophotonics 2015 093591(1-12)

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Գիտաժողովի նյութ

Experimental and Theoretical Investigation of Polarization Plane Rotation of Light in Nanoparticle-Enriched Chiral liquid-crystalline Photonic Structures with an Anisotropic Defect Layer

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Asymmetric Transmission liquid-crystals of Two Cholesterics with Different Pitches and Chiralities

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Nonreciprocal Transmission in Electro-Tunable Cholesterics

H. Gharagulyan, M. S. Rafayelyan, A. H. Gevorgyan, R. B. Alaverdyan

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Optical Properties of Polymer-Dispersed Cholesteric Liquid- Crystalline Wedge-Cell

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Lasing in Cholesteric-Polymer Wedge-Cell System

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Light energy accumulation by cholesteric liquid crystal layer at oblique incidence

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Lasing polarization peculiarities in cholesterics separated by dye-doped polymeric layer

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Controlling Possibilities of Functionalized Graphene Oxide Liquid Crystalline Microdroplets

Gharagulyan Hermine, Melikyan Yeghvard, Vasilev Alexey, Hayrapetyan Vardan, Khachatryan Ashot, Apreyan Ruben, Yeranosyan Mkrkich

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Spatial evolution of light polarization in wedge-shaped cholesteric liquid crystal cell

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Lasing in three-layer cholesteric-dye-doped polymer-cholesteric sandwich cell

T.M. Sarukhanyan, H. Gharagulyan, R.B. Alaverdyan, A.H. Gevorgyan

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The role of the geometric phase in cholesteric with a defect layer toward multimodal robust lasing

T.M. Sarukhanyan, M.S. Rafayelyan, H. Gharagulyan, R.B. Alaverdyan, S.S. Golik, A.H. Gevorgyan

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Filtering of terahertz radiation by a metasurface structure

Simonyan Karen, Parsamyan Henrik, Gharagalyan Hermine, Khachatryan Ashot, Yerosyan Mkrtich

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Manipulating Optical Features of MoS₂-decorated rGO Nanosystems

Hermine Gharagulyan, A. Vasil'ev, M. Zhezhu, Y. Melikyan

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Studying Graphene Oxide Stability Depending on Particle Sizes

Yeghvard Melikyan, A. Vasil'ev, M. Zhezhu, H. Gharagulyan

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Comparison of the Electro-Optical Properties of MoS₂/rGO Heterostructures Fabricated via CVD and Soft Chemistry Methods

Marina Zhezhu, A. Vasil'ev, Y. Melikyan, H. Gharagulyan

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

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

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Functionalized Graphene Oxide Liquid Crystalline Systems Under External Fields

Hermine Gharagulyan, Alexey Vasil'ev, Marina Zhezhu, Gayane Baghdasaryan, Yeghvard Melikyan

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Synthesis, Characterization and Liquid Crystalline Phase Formation of MoS₂

Sara Gyoalyan, Yeva Melikyan, Marina Zhezhu, Alexey Vasil'ev, Hermine Gharagulyan

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Liquid Crystalline Nanosystems for Advanced Optoelectronics

Hermine Gharagulyan, Alexey Vasil'ev, Marina Zhezhu, Sara Gyoalyan, L. Avanesyan, V. Mehrabyan

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ELECTRON-BEAM DRIVEN MICROPATTERNING OF L-CYSTEINEFUNCTIONALIZED CHALCOGENIDES

Sara Gyoalyan, L Avanesyan, V Mehrabyan, M Zhezhu, A Vasil'ev, H Gharagulyan

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AMINO ACID-CONTROLLED MAGNETIC ALIGNMENT OF FE₃O₄ - ENRICHED GOLC

Lilit Avanesyan, S Gyoalyan, V Mehrabyan, M Zhezhu, A Vasil'ev, H Gharagulyan

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TERAHERTZ RESPONSE OF GRAPHENE-LIKE STRUCTURES

L. Avanesyan, A. Vasil'ev, M. Zhezhu, H. Parsamyan, G. Baghdasaryan, M. Sargsyan, D. A. Ghazaryan,

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Liquid Crystalline Nanosystems: Research Directions, Methods, and Achievements

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Sara Gyoalyan, Lilit Avanesyan, Valentina Mehrabyan

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Ge-Sb-Te Gradient Crystalline Films for Potential Optical Filtering

Marina Zhezhu, Alexey Vasil'ev, Maxim Yaprntsev, Davit Ghazaryan, Hermine Gharagulyan

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Resonances Induced by Structural Asymmetry in the THz Domain and Their Applications

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Gayane Baghdasaryan, Davit A. Ghazaryan, Hermine Gharagulyan

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Terahertz Response of Liquid Crystalline GO and rGO Thin Films

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Գիտաժողովի նյութ

Optical Properties of Chitosan-Functionalized Graphene Oxide

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