

## Ֆիզիկայի ինստիտուտ

Օպտիկայի ամբիոն

Ասիստենտ

## Հրապարակումներ

### 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

#### **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

#### **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**

Mushegh S. Rafayelyan, Gvidon K. Matinyan, Hermine Gharagulyan, Tatevik M. Sarukhanyan, Meruzhan Z. Hautuyunyan, Ilya M. Efimov, Nikolay A. Vanyushkin, Sergey S. Golik, Ashot H. Gevorgyan MATERIALS 2021 2172

### Հոդված

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

Tatevik M. Sarukhanyan, Hermine Gharagulyan, Mushegh S. Rafayelyan, Sergey S. Golik, Ashot H. Gevorgyan, Roman B. Alaverdyan Molecules 2021 6089

### Հոդված

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

T. M. Sarukhanyan, H. S. Gharagulyan, M. L. Sargsyan, H. Grigoryan, R. S. Hakobyan, A. H. Gevorgyan, R. B. Alaverdyan Molecular Crystals and Liquid Crystals 2020 15-25

### Հոդված

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

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

Optics and Spectroscopy 2020 1644-1648

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Հողմած

### **Diffusion in liquid crystals of two cholesterics with different pitches.**

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

Hayarpi Grigoryan

Journal of Nanophotonics 2015 093591(1-12)

<https://spie.org/publications/journals/journal-of-nanophotonics>

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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**

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

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

A.H. Gevorgyan, M.S. Rafayelyan, Zh.V. Ninoyan, Hermine Gharagulyan, R.B. Alaverdyan

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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**

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

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

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### **Light energy accumulation by cholesteric liquid crystal layer at oblique incidence**

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

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

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

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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 Mkrtich

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**Spatial evolution of light polarization in wedge-shaped cholesteric liquid crystal cell**  
R. Alaverdyan, L. Aslanyan, G. Gevorgyan, H. Gharagulyan, H. Hovakimyan, Zh. Ninoyan

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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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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, Yeranosyan Mkrtich

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**Manipulating Optical Features of MoS<sub>2</sub>-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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Marina Zhezhu, A. Vasil'ev, Y. Melikyan, H. Gharagulyan

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Mkrtich YERANOSYAN, Ruben APREYAN, Hermine GHARAGULYAN

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