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## Знание языков

Հայերէն Русский English

## Публикации

Статья

### **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

Статья

### **Наблюдение электроконвекции в нематических жидких кристаллах рентгеноинтерферометрическим методом**

Л.Г. Гаспарян, В.П. Мкртчян, Р.Б. Алавердян, Т.М. Саруханян

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561-567

Статья

### **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

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### **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

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### **Light-induced hydrodynamic reorientation of hybrid aligned nematic liquid crystals caused by direct volume expansion**

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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. S. Hakobyan, R.B. Alaverdyan  
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**Light-induced multi-wavelength lasing in dye-doped chiral nematic liquid crystals due to strong pumping illumination**

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**Tuning the lasing wavelength of dye-doped chiral nematic liquid crystal by fluid flow**

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**Экспериментальное исследование конвекции марангони в наножидкостях**

Г. С. Геворгян, К. А. Петросян, Р. С. Акопян, Р. Б. Алавердян

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**Polarized light in anisotropic medium with twisting**

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**Enhanced physical properties of nematics doped with ferroelectric nanoparticles**

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**Лазерно-индуцированные термокапиллярные волны в изотропных и анизотропных жидкостях**

Р. С. Акопян, М.Р.Акопян, Р.Б.Алавердян, Ю.С.Чилингарян

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**Thermomechanical Effects in Hybrid and Cylindrical-Hybrid Oriented Nematic Liquid Crystals**

Rafik S. Hakobyan, Mariam R. Hakobyan, Roman B. Alaverdyan

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**Volume Expansion Mechanism of Laser-Induced Hydrodynamic Reorientation**

R.S.Hakobyan, M.R.Hakobyan, R.B.Alaverdyan, Yu.S.Chilingaryan

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**Гравитационный и термокапиллярный механизмы возбуждения гидродинамических движений в жидких кристаллах лазером с пространственно периодической структурой интенсивности**

Р.С.Акопян, М.Р.Акопян, Р.Б.Алавердян, Ю.С.Чилингарян

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**Наблюдение двух областей селективного отражения света от тонкой пленки холестерического жидкого кристалла**

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**CHIRAL PHOTONIC STRUCTURES WITH ANISOTROPIC DEFECT CONTROLLED BY HYDRODYNAMIC FLOW**

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**Spectral investigation of chiral photonic structure with laser dye-doped isotropic polymer film**

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Alaverdyan R. B., Dadalyan T. K., Hayrapetyan N. A.

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**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 Gharaguiyan, R.B.Alaverdjan

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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**

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

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**Lasing in Cholesteric-Polymer Wedge-Cell System**

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

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**Characteristics of photonic band gap edge lasing in Cholesteric Liquid Crystals**

T. K. Dadalyan, R.B. Alaverdyan, T.M. Sarukhanyan

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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**

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

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**Investigation of the influence of direct volume expansion on optical properties of Nematic Liquid Crystal layer**

T.K. Dadalyan, K. A. Petrosyan, R. S. Hakobyan, R. B. Alaverdyan

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**Tuning the lasing wavelength in dye-doped chiral photonic structure with pitch gradient by means of hydrodynamic flow**

Zh. Ninoyan, T. Dadalyan, R. Alaverdyan

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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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**Non-linear control of lasing wavelength in dye-doped chiral photonic structures by means of light**

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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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