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🌐 Language skills

Հայերեն Русский English

📖 Publications

Article

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

Article

Наблюдение электроконвекции в нематических жидкких кристаллах рентгеноинтерферометрическим методом

Լ.Գ. Գասպարյան, Վ.Պ. Մկրտչյան, Բ.Բ. Ալավերդյան, Տ.Մ. Սարսուհանյան

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2021

561-567

Article

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

Optics and Spectroscopy 2020 1644-1648

Article

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

T. Dadalyan, K. Petrosyan, R. Alaverdyan, R. Hakobyan

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Article

Light energy accumulation by cholesteric liquid crystal layer at oblique incidence

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Light-induced multi-wavelength lasing in dye-doped chiral nematic liquid crystals due to strong pumping illumination

Tigran Dadalyan, Zhirayr Ninoyan, Inge Nys, Roman Alaverdyan, Jeroen Beeckman, Kristiaan Neyts

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

T. Dadalyan, R. Alaverdyan, Zh. Ninoyan, O.Willekens, J. Beeckman, I.Nys

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Экспериментальное исследование конвекции марангони в наножидкостях

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

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2017

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Article

Polarized light in anisotropic medium with twisting

R. B. Alaverdyan, A. L. Aslanyan, L. S. Aslanyan, G. S. Gevorgyan, S. Ts. Nersisyan

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

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Article

Лазерно-индукционные 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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R.S.Hakobyan, M.R.Hakobyan, R.B.Alaverdyan, Yu.S.Chlingaryan

Article

Гравитационный и термокапилляр-ный механизмы возбуждения гидродинамических движений в жидкых кристаллах лазером с пространственно периодической структурой интенсивности

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

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CHIRAL PHOTONIC STRUCTURES WITH ANISOTROPIC DEFECT CONTROLLED BY

HYDRODYNAMIC FLOW

R. B. Alaverdyan, T. K. Dadalyan

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

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Proceedings of SPIE - The International Society for Optical Engineering 2012 847518

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Luminescence spectrum thermal properties of Rhodamine 6G doped polymethyl metacrylate film sandwiched between cholesteric liquid crystal layers

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Study of cholesteric liquid crystal - Rhodamine 6G doped polymethyl methacrylate thin film - Cholesteric liquid crystal system

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

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Lasing in Cholesteric-Polymer Wedge-Cell System

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

Conference

Characteristics of photonic band gap edge lasing in Cholesteric Liquid Crystals

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

Conference

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

Conference

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

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

Conference

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

Conference

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

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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

T. Dadalyan, Zh. Ninoyan, R. Alaverdyan, I. Nys, J. Beeckman, K. Neyts

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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

Conference

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
