Роман Бахшиевич Аллахвердян

Научно-исследовательский институт физики
директор

Научно-исследовательский институт физики
директор

Институт физики
Кафедра оптики и фотоники
Профессор

37496361198
37493361198
23-30
(060) 71-03-30

ralaverdyan@ysu.am

Знание языков

Հայերեն 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
Proceedings of NAS RA Physics 2021 561-567

Конференция
Lasing polarization peculiarities in cholesterics separated by dye-doped polymeric layer
T.M. Sarukhanyan, H. Gharagulyan, A.H. Gevorgyan, R.B. Alaverdyan
2021 30-31
https://www.magnuswebinars.com/optics-virtual/speakers/september-2020

Конференция
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
2021 46 - 46
https://ipr.sci.am/pl/conferences/archive.html

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

Статья

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

Статья

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

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

Liquid Crystals 2019 694-699

Статья

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

Liquid Crystals 2019 1079-1090

Конференция

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

2019 125

http://www.aclc2019.cn/about.aspx?FId=n1:1:1

Конференция

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

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

2019 32 - 32

https://ipr.sci.am/pl/conferences/archive.html

Статья

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

Liquid Crystals 2018 1272-1278

Конференция

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

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

2018 39

http://ipr.sci.am/lp/

Конференция

Lasing in Cholesteric-Polymer Wedge-Cell System

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

2018 49-50

http://ipr.sci.am/lp/

Конференция

Characteristics of photonic band gap edge lasing in Cholesteric Liquid Crystals
T. K. Dadalyan, R.B. Alaverdyan, T.M. Sarukhanyan

2018 30

http://gitavan.am/lp/index.html

Статья

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

Liquid Crystals 2017 372-378

http://www.tandfonline.com/loi/tlct20#.V4iQbUt97cc

Статья

Экспериментальное исследование конвекции марангони в наножидкостях
Г. С. Геворгян, К. А. Петросян, Р. С. Акопян, Р. Б. Алавердян

Proceedings of NAS RA Physics 2017 490-494

Конференция

Nonreciprocal Transmission in Electro-Tunable Cholesterics
H. Gharagulyan, M. S. Rafayelyan, A. H. Gevorgyan, R. B. Alaverdyan

2017 51-51

http://ipr.sci.am/plugin.php?plugin=conferences&id=17

Конференция

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

2017 68 - 69

https://ipr.sci.am/pl/conferences/archive.html

Конференция

Tuning the lasing wavelength in dye-doped chiral photonic structure with pitch gradient by means of hydrodynamic flow
Zh. Ninoyan, T. Dadalyan, R. Alaverdyan

2017 66 - 67

https://ipr.sci.am/pl/conferences/archive.html

Конференция

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

2017 56 - 57

https://ipr.sci.am/pl/conferences/archive.html

Конференция

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

2017 41-41

https://ipr.sci.am/pl/conferences/archive.html

Конференция

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

2016 72

http://www.rau.am/optics2016/

Статья

Polarized light in anisotropic medium with twisting

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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2015 137-143

http://www.springer.com/physics/particle+and+nuclear+physics/journal/11958

Конференция

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

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

2015 124-125

http://www.rau.am/optics2015/

Статья

Enhanced physical properties of nematics doped with ferroelectric nanoparticles

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

Armenian Journal of Physics 2014 11-18

http://ajp.asj-oa.am/

Статья

Лазерно-индуцированные термокапиллярные волны в изотропных и анизотропных жидкостях

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

Proceedings of NAS RA Physics 2014 230-240

http://www.flib.sci.am/eng/Fizika/Frame.html

Статья

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

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

Molecular Crystals and Liquid Crystals 2014 152-162

http://www.tandfonline.com/loi/gmcl20

Статья

Volume Expansion Mechanism of Laser-Induced Hydrodynamic Reorientation

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

Armenian Journal of Physics 2014 19-27

http://ajp.asj-oa.am/

Статья

Гравитационный и термокапилляр-ный 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

Proceedings of NAS RA Physics 2014 177-189

http://www.flib.sci.am/eng/Fizika/Frame.html

Образовательный Руководство

Լույսի բևեռացումը և նրա հետազոտումը
Ասլանյան Լ.Ս., Ալավերդյան Ռ.Բ.

2014 69

Статья

Наблюдение двух областей селективного отражения света от тонкой пленки холестерического жидкого кристалла
Алавердян Р. Б., Дадалян Т. К., Чилингарян Ю. С.

Квантовая Электроника (Quantum Electronics) 2013 433-434

http://www.quantum-electron.ru/pa.phtml?page=geninfo

Статья

CHIRAL PHOTONIC STRUCTURES WITH ANISOTROPIC DEFECT CONTROLLED BY HYDRODYNAMIC FLOW
R. B. Alaverdyan, T. K. Dadalyan

Armenian Journal of Physics 2013 55-60

http://ajp.asj-oa.am/

Статья

Spectral investigation of chiral photonic structure with laser dye-doped isotropic polymer film
Alaverdyan R. B., Dadalyan T. K., Chilingaryan Yu. S., Karapetyan A. S., Hovhannisyan T. M.,

Hovhannisyan S. I.

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

http://spie.org/publications/conference-proceedings

Статья

Luminescence spectrum thermal properties of Rhodamine 6G doped polymethyl metacrylate film sandwiched between cholesteric liquid crystal layers
Alaverdyan R. B., Dadalyan T. K., Karapetyan A. S., Torosyan N. S.

Journal of Physics Conference Series 2012 1-4

http://iopscience.iop.org/journal/1742-6596

Статья

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.

Proceedings of SPIE - The International Society for Optical Engineering 2011 811418

http://spie.org/publications/conference-proceedings