

Hakob Levon Margaryan

✉ marhakob@ysu.am

R⁶ 

Research Institute of Physics

Center for Semiconductor Devices and Nanotechnologies

Leading researcher

Language skills

Հայերեն Русский English

Publications

Article

Fabry-Perot enhancement of liquid crystals birefringence effects in terahertz range

K.G. Batrakov, N.I. Valynets, M.M. Dubinetski, A.G. Paddubskaya, H.L. Margaryan, N.H. Hakobyan,

V.K. Abrahamyan

Physica Scripta 2025 015510

Article

Switchable anisotropic diffraction mode filter based on fork-like liquid crystal gratings

P. K. Gasparyan, H. L. Margaryan, V. K. Abrahamyan, T. K. Sargsyan, N. H. Hakobyan

Applied Optics 2024 8712 - 8716

Article

Multilayered liquid crystal systems for discrete and continuous light beam steering

Hakob L. Margaryan, Valery K. Abrahamyan, Nune H. Hakobyan, Hakob S. Chilingaryan,

Gnel M. Stepanyan, Victor V. Belyaev, Andrey D. Latipov

IET Conference Proceedings 2024 71-74/208333

Article

Modeling electron mobility in organic optoelectronic materials (Моделирование подвижности электронов в органических материалах оптоэлектроники)

Victor V. Belyaev, Denis N. Chausov, Alexey S. Solomatin, Roman N. Kucherov, Sandeep Kumar,

Hakob L. Margaryan, Nune G. Hakobyan, Marina V. Ermakova, Andrey A. Belyaev, George M. Hanna,

Artyom R. Vechkanov, Anton V. Andreev

Оптический журнал (Journal of Optical Technology) 2024 759-764

Article

Pyrolytic carbon/liquid crystal structure based platform for tunable THz components

Hakob L. Margaryan, David L. Hovhannisyan, Nune H. Hakobyan, Valery K. Abrahamyan,

Petros K. Gasparyan, Pilip Y. Misiyuk, Alesia G. Paddubskaya, Nadzeya I. Valynets,

Konstantin G. Batrakov

International Conference on Microwave & THz Technologies, Wireless Communications and

OptoElectronics (IRPhE 2022)

2023 22987029/ 66-69

Article

ЖИДКОКРИСТАЛЛИЧЕСКИЙ УПРАВЛЯЕМЫЙ ОПТИЧЕСКИЙ ФИЛЬТР, КОМБИНИРУЕМЫЙ С УСТРОЙСТВАМИ ВИДЕОНАБЛЮДЕНИЯ

А.Л. МАРГАРЯН, П.К. ГАСПАРЯН, В.К. АБРААМЯН, Н.Г. АКОПЯН, А.С. ЧИЛИНГАРЯН, Д.К. ПОХСРАРЯН,

Г.М. СТЕПАНЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2023
102-107

Article

Controlled Liquid Crystal Optical Filter Combined with Video Surveillance Devices

H. L. Margaryan, P. K. Gasparyan, V. K. Abrahamyan, N. H. Hakobyan, H. S. Chilingaryan,

D. K. Pokhsraryan, G. M. Stepanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 73-76

Article

Apparatuses for preparing and investigation of liquid crystal devices

Hakob L. Margaryan, Nune H. Hakobyan, Hakob S. Chilingaryan, Valery K. Abrahamyan,

Nelson V. Tabirian

Proceedings of SPIE. Emerging Liquid Crystal Technologies XVII 2022 120230C-1-6

Article

Azodyes for liquid crystal photoalignment in displays and diffraction optical elements

Vladimir G. Chigrinov, Victor V. Belyaev, Vladimir M. Kozenkov, Denis N. Chausov, Hakob L. Margaryan,

Nune H. Hakobyan, Nelson V. Tabirian

Proceedings of SPIE. Emerging Liquid Crystal Technologies XVII 2022 1202305/1-11

Article

Влияние воздушного пузыря на ориентацию жидкого кристалла

А.Л. Маргарян, Н.Г. Акопян, В.К. Абраамян, Г.М. Степанян, В.В. Беляев, М.В. Ермакова,

В.И. Машченко, В.А. Жачкин

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2022
574-579

Article

Effect of Air Bubble on Liquid Crystal Alignment

H. L. Margaryan, N. H. Hakobyan, V. K. Abrahamyan, G. M. Stepanyan, V. V. Belyaev, M.V. Ermakova,

V. I. Mashchenko, V. A. Zhachkin

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 389-392

Article

Diffraction gratings made from optically anisotropic material with surface microrelief

N. G. Akopyan, A. L. Margaryan, V.V. Belyaev, A. S. Solomatin, S. Kumar, D. N. Chausov, A. A. Belyaev

Journal of Optical Technology 2021 30-36

Article

Дифракционные решетки с поверхностным микрорельефом из оптически анизотропного материала

Н. Г. Акопян, А.Л. Маргарян, В.В. Беляев, А.С. Соломатин, S. Kumar, Д. Н. Чаусов, А.А. Беляев

Оптический журнал (Journal of Optical Technology) 2021 44-52

Article

NEW GENERATION OPTICAL ELEMENTS WITH CENTRALLY SYMMETRIC ORIENTATION BASED ON LIQUID CRYSTAL POLYMERS

H. L. MARGARYAN, N. H. HAKOBYAN, V. K. ABRAHAMYAN, V. V. BELYAEV, D. N. CHAUSOV, A. S. SPAKHOV

Proceedings of the YSU A. Physical and Mathematical Sciences 2020 70-76

Article

Diffraction on periodic surface microrelief grating with positive or negative optical anisotropy

Nune Hakobyan, Hakob Margaryan, Victor V. Belyaev, Alexey S. Solomatin, Sandeep Kumar,

Denis N. Chausov, Andrey A. Belyaev, Alexander G. Smirnov, Artem A. Gorbunov

Applied Optics 2020 8443-8449

Article

Properties of Diffraction Optical Elements on the Base of Discotic Liquid Crystal for Display Application

Hakob Margaryan, Nune Hakobyan, Victor V. Belyaev, Alexey S. Solomatin, Andrey A. Belyaev,

Sandeep Kumar, Alexander G. Smirnov

SID Symposium Digest of Technical Papers 2020 1558-1561

Article

New Prospects of Application of Liquid Crystal Polymer Cantilever

H.L. Margaryan, N.H. Hakobyan, V.K. Abrahamyan, P.K. Gasparyan, A.S. Yeremyan, N.V. Tabiryan,

R. Vergara

Proceedings of the YSU A. Physical and Mathematical Sciences 2020 165-171

Article

Microlense liquid crystal devices on the base of cylindrical objects

Nune Hakobyan, Hakob Margaryan, Victor V. Belyaev, Alexey S. Solomatin, Douglas R. Suarez,

Alexander G. Smirnov

JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY 2019 536-542

Article

Device for real-time measuring of circular dichroism at a specific wavelength

HAKOB MARGARYAN, NUNE HAKOBYAN, NELSON TABIRIAN, TIGRAN SARGSYAN, PETROS GASPARYAN,

VALERI ABRAHAMYAN, HAKOB CHILINGARYAN, DAVID POKHSRARYAN

Journal of the Optical Society of America B: Optical Physics 2019 D66-D69

Article

Optical Recording Method of Patterned Microstructures Based on Liquid Crystal Polymer

H. L. Margaryan, N. H. Hakobyan, V. K. Abrahamyan, V. M. Aroutiounian, P. K. Gasparyan, V. V. Belyaev,

A. S. Solomatin, D.N. Chausov

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 27-32

Article

МЕТОД ОПТИЧЕСКОЙ ЗАПИСИ УПОРЯДОЧЕННЫХ МИКРОСТРУКТУР НА ОСНОВЕ ЖИДКОКРИСТАЛЛИЧЕСКОГО ПОЛИМЕРА

А.Л. МАРГАРЯН, В.К. АБРАМЯН, Н.Г. АКОПЯН, В.М. АРУТЮНЯН, П.К. ГАСПАРЯН, В.В. БЕЛЯЕВ,

А.С. СОЛОМАТИН, Д.Н. ЧАУСОВ

Article

Polarization Diffractive Waveplate as a Base of Circular Dichroism Meter

Nune Hakobyan, Hakob Margaryan, Nelson Tabiryan, Andrey Belyaev, Victor Belyaev

JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY 2019 816-818

Article

Запись геометрических фазовых элементов на основе жидкокристаллических полимеров

А.Л. Маргарян, В.К. Абрамян, Д.Л. Оганесян, Н.Г. Акопян, В.М. Арутюнян, В.В. Беляев,

А.С. Соломатин

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

353-360

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

Article

Obtaining of Graphene by Chemical Vapor Deposition

H.L. Margaryan, V.M. Aroutiounian, N.H. Hakobyan, V.K. Abrahamyan, H.S. Chilingaryan,

Arpi S. Dilanchian Gharghani

SEMICONDUCTOR MICRO- AND NANOELECTRONICS. PROCEEDINGS OF THE ELEVENTH INTERNATIONAL
CONFERENCE

2017 169-172

<http://icsmn.yzu.am/11th%20ICSMN-Proceedings.pdf>

Article

Recording of Geometric Phase Elements Based on Liquid Crystal Polymers

H. L. Margaryan, V. K. Abrahamyan, D. L. Hovhannisyan, N. H. Hakobyan, V. M. Aroutiounian,

V. V. Belyaev, A. S. Solomatin

Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 258-263

<https://link.springer.com/article/10.3103/S1068337217030112>

Article

Electro-optical characteristics of a liquid crystal cell with graphene electrodes

Nune H. Hakobyan, Hakob L. Margaryan, Valeri K. Abrahamyan, Vladimir M. Aroutiounian,

Arpi S. Dilanchian Gharghani, Amalya B. Kostanyan, Timothy D. Wilkinson, Nelson V. Tabirian

Beilstein Journal of Nanotechnology 2017 2802-2806

<https://www.beilstein-journals.org/bjnano/articles/8/279>

Article

Circular dichroism meter based on polarization diffractive waveplate

Hakobyan Nune, Margaryan Hakob, Chilingaryan Hakob, Tabiryan Nelson, Belyaev Victor,

Solomatin Aleksey

Вестник московского государственного областного университета. Серия: Физика-математика 2017

88-94

<http://vestnik-mgou.ru/Articles/Doc/11927>

Article

Управляемые дифракционные элементы на основе жидкокристаллических композитов

Акопян Н.Г., Маргарян А.Л., Соломатин А.С., Мащенко В.И., Беляев В.В.

Вестник московского государственного областного университета. Серия: Физика-математика 2017
76 - 83

Article

Technique for spectropolarimetry based on liquid crystal polarization diffraction grating

Hakobyan N., Margaryan H., Hovhannisyanyan D., Sargsyan T., Gasparyan P., Aroutiounian V.,

Chilingaryan H., Pokhsranyan D., Tabirian N.

Molecular Crystals and Liquid Crystals 2015 63-69

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

Article

Управление излучением в среднем ИК диапазоне длин волн с помощью жидкокристаллической фазовой решетки

Д.Л. Оганесян, А.Л. Маргарян, Н.Г. Акопян, В.М. Арутюнян, В.В. Беляев, А.С. Соломатин

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2015

74-84

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

Article

Technique for Spectropolarimetry Based on Liquid Crystal Polarization Diffraction Grating

Hakobyan N., Margaryan H., Hovhannisyanyan D., Սարգսյան Տիգրան, Գասպարյան Պետրոս,

Aroutiounian V.M., Զիլինգարյան Հ., Փոխարարյան Դավիթ, Թափրյան Նելսոն

Molecular Crystals and Liquid Crystals 2015 63-69

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

Article

Radiation control in the mid IR wavelength range using the liquid crystal phase grating

H. L. Margaryan, N. H. Hakobyan, V. M. Aroutiounian, D. L. Hovhannisyanyan, V. V. Belyaev, A. S. Solomatin

Journal of Contemporary Physics (Armenian Academy of Sciences) 2015 55-63

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

Article

Electrically Controlled Phase Gratings for Terahertz Radiation Based on Nematic Liquid Crystal

D. Hovhannisyanyan, N. Tabiryanyan, H. Margaryan, V. Abrahamyan, N. Hakobyan

Journal of Physics: Conference Series 2014 1-4

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

Article

Restoration of diffracted far field at the output of circular diffraction waveplate

D. Hovhannisyanyan, N. Tabiryanyan, H. Margaryan, V. Abrahamyan, N. Hakobyan

Journal of Physics: Conference Series 2014 1-4

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

Article

Conformations of DNA in the presence of nanomole concentrations of Co²⁺ ions and mezo-tetra (4-N-oxyethylpyridil) porphyrin

Jamlet Monaselidze, Maya Gorgoshidze, David Khachidze, Maya Kiladze, Vasil Bregadze, Eugene Kiziria,

Hakob Margaryan, Nune Hakobyan

Article

Device for Measuring the Circular Dichroism Spectrum in Real Time

Hakob Margaryan, David Hovhannisyanyan, Nune Hakobyan, Tigran Sargsyan, Petros Gasparyan,
David Pokhsranyan, Nelson Tabiryan

Journal of Nonlinear Optical Physics & Materials 2013 1350042-7

<http://www.worldscientific.com/worldscinet/jnopm>

Article

Zn Ions Change Binding Mode of TOEPyP4 with DNA and Cause DNA Transition from B to C and Zn-Like Conformations

Hakob Margaryan, Nune Hakobyan, Jamlet Monaselidze, Maya Gorgoshidze, David Khachidze,
Maya Kiladze, Vasil Bregadze, Eugene Kiziria

American Journal of Analytical Chemistry 2013 744-748

<http://www.scirp.org/journal/ajac>

Article

Features of Polarization Diffraction Gratings Switching under the Influence of Bipolar Electric Pulses

H.L. Margaryan, N.H. Hakobyan, D.L. Hovhannisyanyan, V.K. Abrahamyan, T.K. Sargsyan, A.M. Movsisyan

SID Symposium Digest of Technical Papers 2013 92-93

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)2168-0159](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)2168-0159)

Article

CD and DSC Investigation of Individual and Complex Influence of Meso-Tetra(4-Oxiethylpyridil) Porphyrin (TOEPyP4) and Its Zn-Complex on DNA

H. Margaryan, N. Hakobyan, J. Monaselidze, E. Kiziria, M. Gorgoshidze, E. Lomidze, D. Khachidze,

M. Kiladze

American Journal of Analytical Chemistry 2012 698-703

<http://www.scirp.org/journal/ajac>

Article

Optimizing of Control Signal Shape for Improving of Time Characteristics of Liquid Crystal Based Devices

H.L. Margaryan, N.H. Hakobyan, D. L. Hovhannisyanyan, V. K. Abrahamyan, D. K. Pokhsranyan,

S. R. Manucharyan

Molecular Crystals and Liquid Crystals 2012 p. 170-176

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

Article

Some Peculiarities of the Recording of Polarization Diffraction Gratings by Doubling Method

H.L. Margaryan, V.M. Aroutiounian, N.H. Hakobyan, D.L. Hovhannisyanyan, V.K. Abrahamyan

Molecular Crystals and Liquid Crystals 2012 214-227

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

Article

Restoration of Electro Optically Induced Phase Shift of Light Passed Through the Liquid Crystal

N.H. Hakobyan, V.M. Aroutiounian, H.L. Margaryan, V.K. Abrahamyan, A.R. Mailian, D.L. Hovhannisyan,
D.K. Pokhsrsryan
Molecular Crystals and Liquid Crystals 2010 . 59(215)-64(220)
<http://www.tandfonline.com/loi/gmcl20>

Article

Influence of the voltage applied to the semiconductor substrate on birefringence of nematic liquid crystal

H.L. Margaryan, V.M. Aroutiounian, N.H. Hakobyan, D.L. Hovhannisyan, V.K. Abrahamyan
Molecular Crystals and Liquid Crystals 2010 78-87
<http://www.tandfonline.com/loi/gmcl20>

Article

Влияние граничного значения угла наклона директора нематического жидкого кристалла на время переориентации

Н.Г. Акопян, В.М. Арутюнян, А.Л. Маргарян, Д.Л. Оганесян

Поверхность. Рентгеновские, синхротронные и нейтронные исследования (Journal of Surface Investigation)
2010 98-102

<http://www.issp.ac.ru/journal/surface/>

Article

Улучшение времени включения жидкокристаллического фазового модулятора с помощью дополнительного управляющего напряжения

Н.Г. Акопян, В.М. Арутюнян, А.Л. Маргарян, В.К. Абрамян, Д.Л. Оганесян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2010
429-439

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

Article

Improvement of Turn-on Time of Liquid-Crystal Phase Retarder by Using an Additional Control Voltage

N. H. Hakobyan, V. M. Aroutiounian, H. L. Margaryan, V. K. Abrahamyan, D. L. Hovhannisyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2010 pp. 278-285

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

Article

Влияние дополнительного электрического поля на двулучепреломление нематического жидкого кристалла

Н.Г. Акопян, В.М. Арутюнян, А.Л. Маргарян, В.К. Абрамян, Д.Л. Оганесян, Д.К. Похсрарян,

Н.В. Каманина

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2009
433-443

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

Article

Influence of additional electric field on the birefringence of a nematic liquid crystal

N.H. Hakobyan, V.M. Aroutiounian, H.L. Margaryan, V.K. Abrahamyan, N.V. Kamanina,

D.L. Hovhannisyan, D.K. Pokhsroryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2009 p.283-290

Article

Исследование характеристик жидкокристаллических электрически-управляемых фазовых пластинок

Акопян Н.Г., Арутюнян В.М., Маргарян А.Л., Абрамян В.К., Бабаджанян В.Г., Оганесян Д.Л., Погосян А.Т., Похсрарян Д.К.

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2009 с.124-132

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

Article

Investigation of Characteristics of Electrically-Controlled Liquid-Crystal Retarders

N. H. Hakobyan, V. M. Aroutiounian, H. L. Margaryan, V. K. Abrahamyan, V. G. Babajanyan, D. L. Hovhannisyan, A. T. Poghosyan, D. K. Pokhsranyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2009 84-90

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

Article

Investigation of Transient Processes in Nematic Liquid Crystal Cells with Semiconductor Substrate, Caused by the Electric Field Applied to Semiconductor

Hakob Margaryan, Vladimir Aroutiounian, Nune Hakobyan, Vahan Babajanyan, Vahe Harutyunyan,

Valeri Abrahamyan

Molecular Crystals and Liquid Crystals 2008 231-237

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

Conference

Light Diffraction on Gratings with Periodic Microrelief with Negative Optical Anisotropy

V. Belyaev, A. Solomatin, A. Gorbunov, H. Margaryan, V. Abramyanyan, D. Oganesyanyan, N. Hakobyan

Conference

New Method of Light Polarization Determination

H. Margaryan, N. Tabiryanyan, D. Hovhannisyan, V. Aroutiounian, V. Abrahamyan, N. Hakobyan,

T. Sargsyan, P. Gasparyan, A. Movsisyan

Conference

New Approach to Determination of Light Polarization State

H. Margaryan, N. Tabiryanyan, D. Hovhannisyan, V. Aroutiounian, V. Abrahamyan, N. Hakobyan,

T. Sargsyan, P. Gasparyan

Conference

Nematic Liquid Crystal based electrically controlled phase gratings for terahertz radiation

H. Margaryan, V. Aroutiounian, N. Hakobyan, D. Hovhannisyan

Conference

Technique for Spectropolarimetry Based on Liquid Crystal Polarization Diffraction Grating

N. Hakobyan, H. Margaryan, V. Aroutiounian, N. Tabiryanyan, H. Chilingaryan, D. Pokhsranyan

Conference

Electrically Controlled Phase Gratings for Terahertz Radiation Based on Nematic Liquid Crystal

D. Hovhannisyan, N. Tabiryan, H. Margaryan, V. Abrahamyan, N. Hakobyan

Conference

Restoration of Diffracted Far Field at the Output of Circular Diffraction Waveplate

D. Hovhannisyan, N. Tabiryan, H. Margaryan, N. Hakobyan, V. Abrahamyan

Conference

Исследование структуры жидкий кристалл-полупроводник и разработка элементов фотоники на ее основе

А.Л. Маргарян, Н.Г. Акопян, Д.Л. Оганесян, Н.В. Табирян, В.К. Абрамян

Conference

Investigation of oscillations in nematic liquid crystal cells with semiconductor substrate, caused by the electric field applied to semiconductor

H. Margaryan, V. Aroutiounian, V. Babajanyan, N. Hakobyan, V. Harutyunyan, V. Abrahamyan

Conference

Some peculiarities of photorefraction in nematic liquid crystal cells with a semiconductor substrate

H. Margaryan, V. Aroutiounian, V. Babajanyan, N. Hakobyan, D. Harutyunyan, V. Abrahamyan

Conference

Some peculiarities of photorefraction in nematic liquid crystals with a silicon substrate

H. Malkhasyan, V. Babajanyan, N. Hakobyan, D. Harutyunyan

Conference

Some electrooptical characteristics of Semiconductor-liquid crystal interface

H. Margaryan, N. Hakobyan, V. Harutyunyan, V. Abrahamyan

Conference

Recording of dynamic diffraction gratings in spatial light modulators of semiconductor-liquid crystal structure

V.K. Abrahamyan, N.H. Hakobyan, H.L. Margaryan, M.V. Isaev, N.L. Ivanova, N.A. Feoktistov

Conference

NI-SbRIO Based Platform for Real Time Spectroscopy

D. Pokhsranyan, H. Margaryan, N. Hakobyan, T. Sargsyan, P. Gasparyan, D. Hovhannisyan,

H. Chilingaryan

Conference

Optical Tweezers Based on Radial Symmetric Phase Retarder and Circular Diffraction Waveplate

H. Margaryan, V. Abrahamyan, D. Hovhannisyan, N. Hakobyan, T. Sargsyan, P. Gasparyan, A. Movsesyan

Conference

Circular Dichroism Meter Based on Polarization Diffractive Waveplate

Nune Hakobyan, Hakob Margaryan, Hakob Chilingaryan, Nelson Tabiryan, Victor Belyaev,

Aleksey Solomatin

Conference

Some electro-optical characteristics of liquid crystal cell with graphene electrodes

Nune H. Hakobyan, Hakob L. Margaryan, Valeri K. Abrahamyan, Vladimir M. Aroutiounian,
Arpi S. Dilanchian Gharghani, Amalya B. Kostanyan, Timothy D. Wilkinson, Nelson V. Tabirian

Conference

Obtaining of Graphene by Chemical Vapor Deposition

H.L. Margaryan, V.M. Aroutiounian, N.H. Hakobyan, V.K. Abrahamyan, H.S. Chilingaryan,

Arpi S. Dilanchian Gharghani

Conference

Features of Polarization Diffraction Gratings Switching under the Influence of Bipolar Electric Pulses

H.L. Margaryan, D.L. Hovhannisyan, N.H. Hakobyan, V.K. Abrahamyan, T.K. Sargsyan, A.M. Movsisyan

Conference

**ДИФРАКЦИЯ НА ОПТИЧЕСКИ АНИЗОТРОПНЫХ РЕШЕТКАХ С РАЗНЫМ ЗНАКОМ
ДВУЛУЧЕПРЕЛОМЛЕНИЯ**

МАРГАРЯН А.Л., АКОПЯН Н.Г., БЕЛЯЕВ В.В., СОЛОМАТИН А.С., БЕЛЯЕВ А.А.

Conference

Apparatuses for preparing and investigation of liquid crystal devices

Hakob L. Margaryan, Nune H. Hakobyan, Hakob S. Chilingaryan, Valery K. Abrahamyan,

Nelson V. Tabirian

Conference

Azodyes for liquid crystal photoalignment in displays and diffraction optical elements

Hakob L. Margaryan, Nune H. Hakobyan, Vladimir G. Chigrinov, Victor V. Belyaev, Vladimir M. Kozenkov,
Denis N. Chausov, Nelson V. Tabirian

Conference

Effect of Air Bubble on Liquid Crystal Alignment

N.H. Hakobyan, H.L. Margaryan, V.K. Abrahamyan, G.M. Stepanyan, V.V. Belyaev, M.V. Ermakova,
V.I. Mashchenko, V.A. Zhachkin

Patent

The method for registration of changes of polarization state of monochromatic light radiation

Margaryan H., Aroutiounian V.M., Tabirian N., Hakobyan N., Hovhannisyan D., Movsisyan A.,

Gasparyan P.

Patent

Device for non-invasive determination of glucose concentration in human organism

Margaryan H., Hakobyan N., Hovhannisyan D., Aroutiounian V., Tabirian N., Rohatgi U., Abrahamyan V.,
Sargsyan T., Movsisyan A., Gasparyan P.

Patent

Մարդու օրգանիզմում գլյուկոզայի պարունակության ոչ ինվազիվ որոշման սարք
Հակոբ Մարգարյան, Նելսոն Թաբիրյան, Ուպենդրա Ռոհաջի, Վլադիմիր Հարությունյան,
Նունե Հակոբյան, Վալերի Աբրահամյան, Դավիթ Հովհաննիսյան, Տիգրան Սարգսյան,
Արտաշես Մովսիսյան, Պետրոս Գասպարյան

Patent

Հեղուկ բյուրեղային բջջի փոխարկման և փուլային մոդուլման կառավարման եղանակ և դրա իրականացման սարք
Հ. Մարգարյան, Վ. Հարությունյան, Ն. Հակոբյան, Դ. Հարությունյան, Վ. Աբրահամյան

Patent

Method and device for controlling of switching and phase modulation of a liquid crystal cell
Margaryan Hakob, Aroutiounian Vladimir, Hakobyan Nune, Abrahamyan Valery, Hovhannisyan David

Patent

Մոնոխրոմատիկ լուսային ճառագայթի բևեռացման փոփոխության գրանցման եղանակ
Հակոբ Մարգարյան, Վլադիմիր Հարությունյան, Նելսոն Թաբիրյան, Նունե Հակոբյան,
Վալերի Աբրահամյան, Դավիթ Հովհաննիսյան, Տիգրան Սարգսյան, Արտաշես Մովսիսյան,
Պետրոս Գասպարյան

Patent

Շրջանային դիքրոիզմի սպեկտրի չափման սարք
Հակոբ Մարգարյան, Նելսոն Թաբիրյան, Ուպենդրա Ռոհաջի, Վլադիմիր Հարությունյան,
Նունե Հակոբյան, Դավիթ Հովհաննիսյան, Տիգրան Սարգսյան, Պետրոս Գասպարյան

Patent

Device and Method for measuring circular dichroism
Margaryan Hakob, Hakobyan Nune, Hovhannisyan David, Aroutiounian Vladimir, Tabirian Nelson,
Rohatgi Upendra, Jo Jae, Goushcha Oleksandr, Sargsyan Tigran, Gasparyan Petros

Patent

Հեղուկ բյուրեղային բևեռային դիֆրակցիոն ալիքային թիթեղ
Հակոբ Մարգարյան, Դավիթ Հովհաննիսյան, Նունե Հակոբյան, Վալերի Աբրահամյան,
Վլադիմիր Հարությունյան, Նելսոն Թաբիրյան

Patent

Centrally symmetric liquid crystal polarization diffractive waveplate and its fabrication
Margaryan Hakob, Hakobyan Nune, Hovhannisyan David, Abrahamyan Valeri, Aroutiounian Vladimir,
Tabirian Nelson

Patent

Device for non-invasive determination of glucose concentration in human organism
Margaryan, Hakob, Hakobyan, Nune, Hovhabbisyanyan, David, Aroutiounian, Vladimir, Tabirian, Nelson,
Rohatgi, Upendra, Abrahamyan, Valeri, Sargsyan, Tigran, Movsissyan, Artashes, Gasparyan, Petros

Patent

Հեղուկ բյուրեղային սարքը հեղուկ բյուրեղային նյութով լցման սարքավորում
Հակոբ Լևոնի Մարգարյան, Նունե Հրանտի Հակոբյան, Հակոբ Զիլինգարյան, Վալերի Աբրահամյան,

Patent

«Apparatus for filling liquid crystal device with liquid crystal substance»

H.L. Margaryan, N.H. Hakobyan, V.K. Abrahamyan, H.S. Chilingaryan, P.K. Gasparyan, Nelson Tabirian,

Oleksandr Goushcha

Conference

Bragg-Berry cavities: orbital angular momentum manipulation of broadband light beams

Sergey Shvetsov, Vahram Grigoryan, Valeri Abrahamyan, Nune Hakobyan, Hakob Margaryan,

Mushegh Rafayelyan

Conference

Analyses of the Characteristics of a Spherical Quantum Dot by Wavelet Transform Methods

E. Kozhanova, S. Danilov, V.Belyaev, H. Margaryan, N. Hakobyan, V. Abrahamyan, P. Gasparyan

Conference

Platform for real time spectroscopy based on NI-sbRIO system for optimal control of materials properties

Margaryan H., Pokhsranyan D., Hakobyan N., Gasparyan P., Hovhannisyanyan D., Chilingaryan H.,

Belyaev V., Kuznetsov M.

Conference

**МОДЕЛИРОВАНИЕ ПОДВИЖНОСТИ ЭЛЕКТРОНОВ В ОРГАНИЧЕСКИХ МАТЕРИАЛАХ
ОПТОЭЛЕКТРОНИКИ**

Акопян Нуне Грантовна, Маргарян Акоп Левонович, Беляев Виктор Васильевич,

Чаусов Денис Николаевич, Соломатин Алексей Сергеевич, Кучеров Роман Николаевич,

Сандип Кумар (Sandeep Kumar), Ермакова Мария Вадимовна, Царева Елена Владимировна,

Беляев Андрей Андреевич, Ханна Георгий Михайлович, Коршаков Никита Алексеевич

Conference

Light beam steering by a sequence of polarization diffraction gratings

H. Margaryan, V. Abrahamyan, N. Hakobyan, H.Chilingaryan, G. Stepanyan, V. Belyaev, A. Latipov
