

Maksim Liparit Sargsyan

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Research Institute of Physics

Laboratory of Advanced Functional Materials

Researcher

Education

Institution	Yerevan State University
Faculty	Faculty of Physics / Chair of Optics
Date	2020 - 2023
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Physics / Chair of Optics
Date	2018 - 2020
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Physics
Date	2014 - 2018
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2023
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	R.S. Hakobyan
Research Topic	Study of mechanical and optical properties of structures formed in isotropic and anisotropic media

Language skills

Հայերեն English Русский

Work experience

Institution	Yerevan State University
Period of time	2024 till now

Rank/degree Researcher

Institution CANDLE SRI

Period of time 2024 till now

Rank/degree Researcher

Institution Yerevan State University

Period of time 2022 - 2024

Rank/degree Junior Researcher

Institution CANDLE SRI

Period of time 2018 - 2020

Rank/degree Senior Laboratory Assistant

Scientific interests

- Materials Physics
 - 2D materials
 - vdW Heterostructures
 - Ellipsometry
 - Nano-Optics
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Participation in international conferences and seminars

02/07/2019 - 05/07/2019 2nd International Workshop on “Ultrafast Beams and Applications” (UBA)
CANDLE SRI
Armenia

17/09/2019 - 20/09/2019 International Conference Laser Physics 2019
Institute for Physical Research (IPR) of NAS of Armenia
Armenia

20/09/2019 - 24/09/2019 The 7th International Symposium “Optics & its applications 2019” (OPTICS-2019)
Armenia

16/09/2019 - 20/09/2019 The International biennial conference EuroDisplay 2019
Society for Information Display (SID) and Belarusian State University of Informatics and Radioelectronics (BSUIR)
Belarus

04/07/2022 - 08/07/2022 The 3rd International Workshop on “Ultrafast Beams and Applications”
CANDLE SRI
Armenia

24/07/2022 - 28th International Liquid Crystal Conference
29/07/2022 NOVA School of Science and Technology
Portugal

Membership

Institution Scientific Council of Faculty of Physics of YSU

Period of time 2019 - 2023

Institution Optica (OSA)

Period of time 2019 - 2023

Institution The International Liquid Crystal Society

Period of time 2022 till now

Publications

Article

Elastic Characterization of Acrylate-Based Liquid Crystal Elastomers

Gevorg S. Gevorgyan, Maksim L. Sargsyan, Mariam R. Hakobyan, Matthew Reynolds, Helen F. Gleeson,

Rafik S. Hakobyan

Polymers MDPI 2025 614

Article

Revisiting THz absorption in GO and rGO liquid crystalline films

A. Vasil'ev, M. Zhezhu, H. Parsamyan, G. Baghdasaryan, M. Sargsyan, D.A. Ghazaryan, H. Gharagulyan

Optics and Laser Technology 2025 113628

Article

Anisotropic Mechanical Properties of Transparent Wood [Анизотропные механические свойства прозрачной древесины]

M. L. Sargsyan, R. S. Hakobyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 300–306

Article

APPLICATION OF LOW-ENERGY, TUNABLE-DELAY ULTRASHORT ELECTRON BUNCH PAIRS FOR IRRADIATION EXPERIMENTS

A. Yeremyan, H. Davtyan, A. Grigoryan, B. Grigoryan, M. Ivanyan, V. Khachatryan, N. Martirosyan,

M. Sargsyan, M. Sukiasyan, A. Vardanyan

Journals of Accelerator Conferences Website 2023 4142-4145

Article

Electrically Induced Hydrodynamic Effect in Nematics Caused by Volume Reduction

Maksim Sargsyan

Fluids 2022 316

Article

Determination of the Elasticity Coefficients for Nematic Liquid Crystal Elastomers

Maksim Sargsyan, Gevorg Gevorgyan, Mariam Hakobyan, Rafik Hakobyan

Crystals 2022 1654

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

Article

Elastic properties of solid nematics

M. T. Hovakimyan, M. L. Sargsyan, R.S. Hakobyan, M.R. Hakobyan

Molecular Crystals and Liquid Crystals 2020 55-64

Article

Fabrication of Uniform Phase Structures in the Bulk of a N-BK7 Glass Using Ultrashort Laser Pulses

A. S. Yeremyan, M. L. Sargsyan, P. K. Gasparyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 191-198

Conference

Application of picosecond-delay laser pulse pairs for materials processing

A.S. Yeremyan, M.L. Sargsyan, M.M. Sukiasyan, N.W. Martirosyan

Conference

TERAHERTZ RESPONSE OF GRAPHENE-LIKE STRUCTURES

L. Avanesyan, A. Vasil'ev, M. Zhezhu, H. Parsamyan, G. Baghdasaryan, M. Sargsyan, D. A. Ghazaryan,

H. Gharagulyan

Conference

Terahertz Response of Liquid Crystalline GO and rGO Thin Films

Lilit Avanesyan, Alexey Vasil'ev, Marina Zhezhu, Henrik Parsamyan, Gayane Baghdasaryan,

Maksim Sargsyan, Davit A. Ghazaryan, Hermine Gharagulyan

Conference

Third Harmonic Generation as a Monitoring Tool for Precision Glass Processing

M.L. Sargsyan, M.M. Sukiasyan, T.K. Sargsyan, A.S. Yeremyan
