

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

- Liquid Crystal Elastomers
- Nonlinear Optics
- Optics of liquid crystals
- Laser Physics



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
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Period of time	2019 - 2023
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Institution	Optica (OSA)
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Period of time	2019 - 2023
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Institution	The International Liquid Crystal Society
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Period of time	2022 till now
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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

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
