

# Maksim Liparit Sargsyan

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## Research Institute of Physics

Laboratory of Advanced Functional Materials

Researcher

## Education

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

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

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Physics
<b>Date</b>	2014 - 2018
<b>Degree name</b>	Bachelor

## Scientific Rank/degree

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

## Language skills

Հայերեն English Русский

## Work experience

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2024 till now

**Rank/degree** Researcher

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**Institution** CANDLE SRI

**Period of time** 2024 till now

**Rank/degree** Researcher

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**Institution** Yerevan State University

**Period of time** 2022 - 2024

**Rank/degree** Junior Researcher

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**Institution** CANDLE SRI

**Period of time** 2018 - 2020

**Rank/degree** Senior Laboratory Assistant

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## **Scientific interests**

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

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

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

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

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**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

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

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

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## Membership

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**Institution** Scientific Council of Faculty of Physics of YSU

**Period of time** 2019 - 2023

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**Institution** Optica (OSA)

**Period of time** 2019 - 2023

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**Institution** The International Liquid Crystal Society

**Period of time** 2022 till now

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## Publications

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*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

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*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

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*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

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*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

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*Article*

### **Electrically Induced Hydrodynamic Effect in Nematics Caused by Volume Reduction**

Maksim Sargsyan

Fluids 2022 316

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Article

**Determination of the Elasticity Coefficients for Nematic Liquid Crystal Elastomers**

Maksim Sargsyan, Gevorg Gevorgyan, Mariam Hakobyan, Rafik Hakobyan

Crystals 2022 1654

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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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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

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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

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Conference

**Application of picosecond-delay laser pulse pairs for materials processing**

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

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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

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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

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Conference

**Third Harmonic Generation as a Monitoring Tool for Precision Glass Processing**

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

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