Maksim Liparit Sargsyan

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Նյութագիտության և նանոտեխնոլոգիաների գիտական կենտրոն
Առաջադեմ ֆունկցիոնալ մատերիալների լաբորատորիա
Scientific Worker

Research Institute of Physics
Նյութագիտության և նանոտեխնոլոգիաների գիտական կենտրոն
Առաջադեմ ֆունկցիոնալ մատերիալների լաբորատորիա
Scientific Worker

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
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

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 - 29/07/2022	28th International Liquid Crystal Conference 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

Dynamic dielectric permittivity tensor of in-plane hyperbolic van der Waals MoOCl2 and emergent chiral photonic applications

A. V. Margaryan, M. L. Sargsyan, M. H. Hayrapetyan, D. A. Karakhanyan, K. S. Novoselov, D. A. Ghazaryan

npj 2D Materials and Applications 2026 42

https://doi.org/10.1038/s41699-026-00681-6

Article

Dielectric function of layered GaSe0.8Te0.2 and emergent all van der Waals optical elements

A. V. Margaryan, M. L. Sargsyan, I. I. Piyanzina, D. A. Karakhanyan, M. H. Hayrapetyan, M. A. Levonyan, H. A. Zakaryan, K. S. Novoselov, D. A. Ghazaryan

Scientific Reports 2026 12551

https://doi.org/10.1038/s41598-026-42182-y

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 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 & Laser Technology 2025 113628

Conference

TERAHERTZ RESPONCE OF GRAPHENE-LIKE STRUCTURES

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

2025 24 - 24

https://crgconferences.com/functionalmaterials/

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

2025 43-44

https://indico.cern.ch/event/1548886/

Conference

Third Harmonic Generation as a Monitoring Tool for Precision Glass Processing
M.L. Sargsyan, M.M. Sukiasyan, T.K. Sargsyan, A.S. Yeremyan

2025 37-38

https://ipr.sci.am/LP25/

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

Conference

Application of picosecond-delay laser pulse pairs for materials processing
A.S. Yeremyan, M.L. Sargsyan, M.M. Sukiasyan, N.W. Martirosyan

2023 47 - 47

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

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
