

Tatevik Makich Sarukhanyan

Research Institute of Physics
Group Leader

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Education

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|--------------------|--------------------------|
| Institution | Yerevan State University |
| Faculty | Faculty of physics |
| Date | 2016 - 2020 |
| Degree name | PhD student |

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|--------------------|--------------------------|
| Institution | Yerevan State University |
| Faculty | Faculty of physics |
| Date | 2014 - 2016 |
| Degree name | Masters |

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|--------------------|--------------------------|
| Institution | Yerevan State University |
| Faculty | Faculty of physics |
| Date | 2010 - 2014 |
| Degree name | Bachelor |

Scientific Rank/degree

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|------------------------------|---|
| Institution | Yerevan State University |
| Date | 2023 |
| Degree name | Candidate |
| Specialty | Physico-mathematical sciences |
| Scientific Supervisor | Prof. R.B. Alaverdyan |
| Research Topic | The experimental investigation of fluorescence in liquid crystalline photonic structures and polymers |

Work experience

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| Institution | Photonics and Artificial Intelligence laboratory |
| Period of time | 2024 till now |
| Rank/degree | Head of group |

Publications

Article

Strong light absorption and absorption absence in photonic crystals with helical structure in an external static magnetic field

A. H. Gevorgyan, N. A. Vanyushkin, I. M. Efimov, A. O. Kamenev, S. S. Golik, H. Gharagulyan, T. M. Sarukhanyan, Malek G. Daher, K. B. Oganesyanyan

Journal of the Optical Society of America B: Optical Physics 2023 1986-1993

Article

Magnetically Induced Transparency in Media with Helical Dichroic Structure

Mushegh S. Rafayelyan, Gvidon K. Matinyan, Hermine Gharagulyan, Tatevik M. Sarukhanyan, Meruzhan Z. Hautyunyan, Ilya M. Efimov, Nikolay A. Vanyushkin, Sergey S. Golik, Ashot H. Gevorgyan
MATERIALS 2021 2172

Article

Observation of Electroconvection in Nematic Liquid Crystals by X-Ray Interferometric Method

V. P. Mkrtchyan, L. G. Gasparyan, R. A. Alaverdyan, T. M. Sarukhanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 379-383

Article

Multimode Robust Lasing in a Dye-Doped Polymer Layer Embedded in a Wedge-Shaped Cholesteric

Tatevik M. Sarukhanyan, Hermine Gharagulyan, Mushegh S. Rafayelyan, Sergey S. Golik, Ashot H. Gevorgyan, Roman B. Alaverdyan

Molecules 2021 6089

Article

The Polarization of Laser Generation from the Cholesteric Liquid Crystal-Dye-Doped Polymer Layer-Cholesteric Liquid Crystal System

T.M. Sarukhanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 103-108

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

Spectral Peculiarities of Multilayer Cholesteric Wedge-Cell System with Dye-Doped Polymer Layer

H. Gharagulyan, T. M. Sarukhanyan, A.V. Ninoyan, A. H. Gevorgyan, R. B. Alaverdyan

Optics and Spectroscopy 2020 1644-1648

Conference

Lasing polarization peculiarities in cholesterics separated by dye-doped polymeric layer

T.M. Sarukhanyan, H. Gharagulyan, A.H. Gevorgyan, R.B. Alaverdyan

Conference

Lasing in three-layer cholesteric-dye-doped polymer-cholesteric sandwich cell

T.M. Sarukhanyan, H. Gharagulyan, R.B. Alaverdyan, A.H. Gevorgyan

Conference

The role of the geometric phase in cholesteric with a defect layer toward multimodal robust lasing

T.M. Sarukhanyan, M.S. Rafayelyan, H. Gharagulyan, R.B. Alaverdyan, S.S. Golik, A.H. Gevorgyan
