Artyom Samvel Movsisyan

a.movsisyan@ysu.am

Institute of Physics
Office of the Institute of Physics
Administration Specialist

Institute of Physics
Office of the Institute of Physics
Administration Specialist

Institute of Physics
Chair of Physical Process Modeling and Signal Processing
Lecturer

Education

Institution	Yerevan State University
Faculty	Institute of physics
Date	2023 - 2026
Degree name	PhD student

Institution	Yerevan State University
Faculty	Radiophysics
Date	2021 - 2023
Degree name	Masters

Institution	Yerevan State University
Faculty	Radiophysics
Date	2017 - 2021
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2026
Degree name	Candidate
Scientific Supervisor	Babajanyan A.
Research Topic	Tunable integration and control of micro and nanostructures based on electromagnetic waves and metastructures

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University
Period of time	2023 till now
Rank/degree	Institute of Physics, Administrative specialist

Institution	Yerevan State University
Period of time	2022 till now
Rank/degree	Research Institute of Physics, Junior Researcher

Institution	Yerevan State University
Period of time	2021 - 2023
Rank/degree	Head of educational laboratory of the chair of Applied electrodynamics and modeling of faculty of Radiophysics

Publications

Article

Dual-resonant anisotropic all-dielectric near-infrared bandstop filter with enhanced spectral and angular stability

Artyom Movsisyan, Arsen Babajanyan

Optics Communications 2026 132754

https://www.sciencedirect.com/science/article/pii/S0030401825012829

Article

Advanced optical indicators based on functional metastructure for thermoelastic optical indicator microscope

Artyom Movsisyan, Billi Minasyan, Hasmik Manukyan, Zhirayr Baghdasaryan, Kiejin Lee,

Arsen Babajanyan

Measurement 2026 120441

https://www.sciencedirect.com/science/article/pii/S0263224126001508?via%3Dihub

Article

Multimodal Microwave Analysis of Ag and Graphite Nanoparticle Suspensions: Size, Concentration, and Temperature Effects

Narek Nazaryan, Nelli Babajanyan, Artyom Movsisyan, Billi Minasyan, Kiejin Lee, Arsen Babajanyan

Sensors and Actuators A Physical 2026 117968

https://www.sciencedirect.com/science/article/pii/S0924424726005194?via%3Dihub

Article

Resonant enhancement and confinement of microwave field in coupled conductive rod systems

Tigran Abrahamyan, Gor Ohanyan, David Hambaryan, Artyom Movsisyan, Henrik Parsamyan,

Hovhannes Haroyan, Arsen Babajanyan, Khachatur Nerkararyan

Physica Scripta 2025 025515

Article

Double Fano resonances of cylindrical metastructures in X-band based on intercomponent coupling and wave interaction

Artyom Movsisyan

Journal of Electromagnetic Waves and Applications 2025 510-522

Article

Dielectric coated conductive rod resonantly coupled with a cut transmission line as a tunable microwave bandstop filter and sensor

David Hambaryan, Tigran Abrahamyan, Henrik Parsamyan, Artyom Movsisyan, Bill Minasyan, Hovhannes Haroyan, Arsen Babajanyan, Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

Heliyon 2024 e24477

Article

Gap-enhanced optical bistability in plasmonic core-nonlinear shell dimers

Artyom Movsisyan, Henrik Parsamyan

Nanoscale 2024 2030-2038

Article

Reflective multi-layer metasurface based on half-wave plate structure for polarization control in the visible-near-infrared region

Artyom Movsisyan, Hasmik Manukyan, Billi Minasyan, Arsen Babajanyan

Physica Scripta 2024 095545

Article

Characterization of microwave response of the mesh-pattern vs. uniformly-coated indium-tin-oxide indicator for the thermoelastic optical microscope: a comparative analysis

Artyom Movsisyan, Hasmik Manukyan, Billi Minasyan, Zhirayr Baghdasryan, Kiejin Lee, Arsen Babajanyan

IET conference proceedings. 2024 15-18

Conference

Dielectric-Coated Conductive Rod Resonantly Coupled with a Cut Goubau Line as a Sensitive Microwave Sensor

Tigran Abrahamyan, Hovhannes Haroyan, David Hambaryan, Artyom Movsisy, Henrik Parsamyan, Arsen Babajanyan, Khachatur Nerkararyan, Kiejin Lee

2023 1

https://atpi.eventsair.com/space-microwave-week-2023/

Article

Characterization of Metal Nanoparticles Aqueous Solution by a Thermoelastic Optical Indicator Microscope

G. Ohanyan, N. Margaryan, M. Manvelyan, L. Odabashyan, B. Minasyan, A. Movsisyan, R. Khachatryan, A. Babajanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 187-191

Article

Solvent Effects on Spin-Spin Coupling Constants in Organomercury Compounds

A.A. SHAHKHATUNI, A.S. MOVSISYAN, A.A.SHAHINYAN, A.G. SHAHKHATUNI

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 69-72

Article

Performance of Pentacene Based Organic Thin Film Transistor with an Octadecyltrichlorosilane Self-Assembled Monolayer Interface

A. Babajanyan, B. Minasyan, A. Movsisyan, B. Friedman, K. Lee

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 208-213