Billi Jean-Loui Minasyan

billi.minasyan@ysu.am

Ռադիոֆիզիկայի և հեռահաղորդակցության կենտրոն
Ֆիզիկատեխնիկական հետազոտությունների լաբորատորիա
Junior Researcher

Research Institute of Physics
Ռադիոֆիզիկայի և հեռահաղորդակցության կենտրոն
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Junior Researcher

Institute of Physics
Chair of Radiophysics and Telecommunications
Assistant

Education

Institution	Yerevan State University
Faculty	Radiophysics
Date	2019 - 2022
Degree name	PhD student

Institution	Yerevan State University
Faculty	Radiophysics
Date	2017 - 2019
Degree name	Masters

Institution	Yerevan State University
Faculty	Radiophysics
Date	2013 - 2017
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2022
Degree name	Candidate
Scientific Supervisor	Arsen Babajanyan
Research Topic	Visualization of wave fields in nanostructures using a thermoelastic indicator microscope

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University
Period of time	2020 till now
Rank/degree	Chair of Applied Electrodynamics and Modeling, Assistant

Publications

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

Design and preparation of the adaptive direction-finding system for using the smart jamming RF signals systems in the 1-6 GHz frequency range

T. Manukyan, G. Sugyan, H. Hambardzumyan, B. Minasyan, A. Aharonyan, S. Eyramjyan

IET conference proceedings. 2025 45 - 48

Article

Optimized Parameter Configuration for Multi- Channel Direction-Finding in the 1–6 GHz Band

Billi Minasyan, Tigran Manukyan, Harutyun Hambardzumyan, Hrachya Stepanyan, Gagik Sughyan,

Suren Eyramjyan, Aharon Aharonyan

2025 International Conference on Electrical Engineering and Photonics (EExPolytech) 2025 184-187

https://ieeexplore.ieee.org/document/11252278

Article

Design of an FPGA-Based Wideband FrequencyTunable Generator for RF Jammer Systems

Billi Minasyan, Tigran Manukyan, Harutyun Hambardzumyan, Hrachya Stepanyan, Gagik Sughyan,

Suren Eyramjyan, Aharon Aharonyan

International Conference on Electrical Engineering and Photonics, EExPolytech 2025 71-74

https://ieeexplore.ieee.org/document/11251682

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

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

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

Microwave response phase control of a graphite microstrip

Arsen Babajanyan, Tigran Abrahamyan, Hovhannes Haroyan, Billi Minasyan, Torgom Yezekyan,

Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

Carbon 2022 151-156

Article

Noninvasive in Vivo Evaluation of Mouse-Blood Glycemia with a Microwave Spiral Sensor

A. Babajanyan, B. Minasyan, L. Odabashyan, S. Kim, J. Kim, J.-H. Lee, B. Friedman, K. Lee

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 47–54

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

Article

PROBING OF A MIXED AQUEOUS SODIUM CHLORIDE AND GLUCOSE SOLUTION WITH THE USE OF A THERMOELASTIC OPTICAL INDICATOR MICROSCOPE

B. J. MINASYAN

Proceedings of the YSU A Physical and Mathematical Sciences 2021 174-181
