# Խաչատուր Վլադիմիրի Ներկարարյան

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**Ֆիզիկայի ինստիտուտ**
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**Resonant conversion of THz waves with orthogonal polarization upon transmission through a woven mesh**
Tigran Abrahamyan, Henrik Parsamyan, Davit Manukyan, Khachatur Nerkararyan

Applied Optics 2025 123-128

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

Hovhannes Haroyan, Arsen Babajanyan, Khachatur Nerkararyan

Physica Scripta 2025 025515

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Hovhannes Haroyan, Arsen Babajanyan, Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

Heliyon 2024 e24477

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Tigran Abrahamyan, Gor Ohanyan, David Hambaryan, David Kalantar, Henrik Parsamyan,

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Journal of Physics D: Applied Physics 2024 355108

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Davit Manukyan, Henrik A. Parsamyan, Khachatur Nerkararyan

Applied Surface Science 2024 161105

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RSC Advances 2023 11948-11958

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New Journal of Physics 2023 103015

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Materials Today Communications 2022 103692

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Henrik Parsamyan, Khachik Sahakyan, Khachatur Nerkararyan

Journal of Physics D: Applied Physics 2022 165102

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**Resonant Interaction Between Microwaves and Thin Conducting Microstructure with Finite Length**
T. Abrahamyan, H. Haroyan, D. Hambaryan, H. Parsamyan, K. Lee, A. Babajanyan, Kh. Nerkararyan

NanoWorld Journal 2022 S5

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*Հոդված*

**Surface-standing-wave formation via resonance interaction of a finite-length conductive rod with microwaves**
Tigran Abrahamyan, Hovhannes Haroyan, David Hambaryan, Henrik Parsamyan, Arsen Babajanyan,

Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

Journal of Physics D: Applied Physics 2022 445001

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

Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

Carbon 2022 151-156

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**GRAPHITE-INSULATOR-METAL BASED METAMATERIAL ABSORBER AT X-BAND**
D. Hambaryan, L. Gevorgyan, H. Parsamyan, A. Yesayan, H. Haroyan, Kh. Nerkararyan

IEEE Xplore 2022 15-17

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*Հոդված*

**Միկրոալիքային խոցող զենք. տեսության և կառուցվածքի որոշ հարցեր**
Հ. Ս. Հարոյան, Խ. Վ. Ներկարարյան, Ա. Ա. Հախումյան, Ա. Հ. Մակարյան, Կ. Ռ. Միրզոյան

Հայկական Բանակ 2021 67-82

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**Light control in a hemicylindrical whispering gallery microcavity-parallel plate waveguide system**
Hovhannes Haroyan, Henrik Parsamayn, Khachatur Nerkararyan

Optics Communications 2020 126122(1-5)

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**Broadband microwave absorption based on the configuration resonance of wires**

Henrik Parsamyan, Hovhannes Haroyan, Khachatur Nerkararyan

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**Core-shell particles as efficient broadband absorbers in infrared optical range**
KHACHATUR V. NERKARARYAN, ANDREY B. EVLYUKHIN, SERGEY I. BOZHEVOLNYI

Optics Express 2019 17474-17481

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**Efficient broadband infrared absorbers based on core-shell nanostructures**
Khachatur V. Nerkararyan, Sergey I. Bozhevolnyi, Henrik A. Parsamyan

Journal of the Optical Society of America B: Optical Physics 2019 2643-2649

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**Dynamics of a quantum emitter resonantly coupled to both external field and localized surface plasmon**
Khachatur V. Nerkararyan, Torgom S. Yezekyan, Sergey I. Bozhevolny

Physical Review B 2018 045401(1-6)

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**Semicylindrical microresonator: excitation, modal structure, and Q-factor**
H. HAROYAN, H. PARSAMYAN, KH. NERKARARYAN, T. YEZEKYAN

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**Dynamics of a Quantum Emitter Coupled to a Metal Nanostructure in the Presence of External Resonant Field**
K.V. Nerkararyan, T.S. Yezekyan

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**Numerical Analysis of Light Non-Resonant Transmission Through a Sub- Wavelength Slit at Angular Incidence**
Kh. Sahakyan, Kh. Nerkararyan

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**Waveguide resonator with high quality factor excited through the subwavelength slit**
Khachik Sahakyan, Hovhannes Haroyan, Kh. Nerkararyan

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**Phase-shifted response of plasmonic nanostructures: Implications to luminescence upconversion**
Khachatur V. Nerkararyan, Torgom S. Yezekyan, Sergey I. Bozhevolnyi

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**Characteristics of Light Transfer in the Connected Conical Waveguides With the Same Symmetry Axis**

Shant Arakelyan, Tigran Abrahamyan, Arsen Babajanyan, Khachatur Nerkararyan

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**Enhanced nonresonant light transmission through subwavelength slits in metal**

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Optics Letters 2016 242-245

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*Հոդված*

**Sensitive Detection of Nano-Scale Vibrations by the Metal-Coated Fiber Tip at the Liquid-Air Interface**

A. J. Babajanyan, T. A. Abrahamyan, H. A. Minasyan, Kh. V. Nerkararyan

International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering 2015 651-654

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*Հոդված*

**Аналитическое описание тороидального резонатора высокой добротности в терагерцовой области частот**

Т. А. Арутюнян, А. Ю. Варданян, А. А. Ахумян, Х. В. Неркарарян

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Tigran Abrahamyan, Stella Sargsyan, Arsen Babajanyan, Khachatur Nerkararyan

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Arsen Babajanyan, Tigran Abrahamyan, Shant Arakelyan, Khachatur Nerkararyan

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A. Babajanyan, T. Abrahamyan, R. Khachatryan, Kh. Nerkararyan

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**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

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