Խաչատուր Վլադիմիրի Ներկարարյան

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Ֆիզիկայի ինստիտուտ
Տնօրեն
Ֆիզիկայի ինստիտուտ
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Ռադիոֆիզիկայի և հեռահաղորդակցության ամբիոն
Պրոֆեսոր
Ֆիզիկայի գիտահետազոտական ինստիտուտ
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Նանոպլազմոնիկայի լաբորատորիա
Լաբորատորիայի վարիչ

Հրապարակումներ

Հոդված
Efficient conversion of the ultrashort THz pulse into a narrowband oscillation
Henrik Parsamyan, Davit Manukyan, Khachik Sahakyan, Torgom Yezekyan, Khachatur Nerkararyan

Journal of Physics D Applied Physics 2026 015110

https://iopscience.iop.org/article/10.1088/1361-6463/ae2928

Հոդված
Nanometer-scale confinement of whispering gallery plasmonic modes upon slit excitation
Henrik Parsamyan, Roza Gabrielyan, Gurgen Arabajyan, Hovhannes Haroyan, Khachatur Nerkararyan

Nanoscale Advances 2026 1314 - 1321

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Հոդված
Tunable optical bandstop filter enabled by bilayer metasurface
H. S. Haroyan, L. T. Gevorgyan, Kh. V. Nerkararyan

Optics Express 2026 3070-3086

https://doi.org/10.1364/oe.582487

Հոդված
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

Հոդված
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

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Realizing multiple bound states in the continuum in optical and THz metasurfaces
T. Abrahamyan, H. Parsamyan, D. Hambaryan, Kh. Nerkararyan

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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

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Հոդված

High dispersion and bistability of the light transmission through a bilayer metasurface with resonant plasmonic elements
Davit Manukyan, Henrik A. Parsamyan, Khachatur Nerkararyan

Applied Surface Science 2024 161105

Հոդված

Highly dispersive transmission conditions for a conductive rods-based ultrathin bilayer metastructure
Tigran Abrahamyan, Gor Ohanyan, David Hambaryan, David Kalantar, Henrik Parsamyan,

Hovhannes Haroyan, Arsen Babajanyan, Kiejin Lee, Khachatur Nerkararyan

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Resonant detection of surface microwaves using dielectric-coated conductive rods coupled with a cut Goubau line
Tigran Abrahamyan, Gor Ohanyan, Hovhannes Haroyan, Arsen Babajanyan, Khachatur Nerkararyan

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Tunable ultra-broadband terahertz metamaterial absorber based on vanadium dioxide strips
Lilit Gevorgyan, Hovhannes Haroyan, Henrik Parsamyan, Khachatur Nerkararyan

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Հոդված

Dark-probe scanning near-field microscopy
Henrik Parsamyan, Torgom Yezekyan, Khachatur Nerkararyan, Sergey I Bozhevolnyi

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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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Broadband tunable mid-infrared absorber based on conductive strip-like meta-atom elements
Henrik Parsamyan, Hovhannes Haroyan, Khachatur Nerkararyan

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Analysis of bistability at the coupling between waveguide and whispering gallery modes of a nonlinear hemicylinder
Henrik Parsamyan, Khachik Sahakyan, Khachatur Nerkararyan

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Հոդված

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

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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

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Microwave response phase control of a graphite microstrip
Arsen Babajanyan, Tigran Abrahamyan, Hovhannes Haroyan, Billi Minasyan, Torgom Yezekyan,

Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

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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

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Resonant interaction between microwaves and thin conducting microstructure with finite length
T. Abrahamyan, H. Haroyan, D. Hambaryan, H. Parsamyan, A. Babajanyan, Kh. Nerkararyan, K. Lee

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Հոդված

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

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Light control in a hemicylindrical whispering gallery microcavity-parallel plate waveguide system

Hovhannes Haroyan, Henrik Parsamayn, Khachatur Nerkararyan

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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

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Efficient broadband infrared absorbers based on core-shell nanostructures
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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

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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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Sensing of silver nanoparticles in aqueous solutions by using an optical fiber probe-tip
A. Babajanyan, T. Abrahamyan, R. Khachatryan, Kh. Nerkararyan

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Kh. Sahakyan, 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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Whispering-Gallery Microresonator with a New Easy and Controllable Excitation Method

H. Parsamyan, H.Haroyan, Kh. Nerkararyan

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Detection of Nanometric Vibrations by Using Opto-Mechanical Sensor

Arsen Babajanyan, Tigran Abrahamyan, Shant Arakelyan, Khachatur Nerkararyan

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Detection of Resonant Oscillations of the Liquid Surface by using a Tapered Fiber Opto-Mechanical Sensor

Tigran Abrahamyan, Arsen Babajanyan, Khachatur Nerkararyan, Stella Sargsyan

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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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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

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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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