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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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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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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, Kiejn Lee, Barry Friedman, Khachatur Nerkararyan

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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, Kiejn Lee, Khachatur Nerkararyan

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High dispersion and bistability of the light transmission through a bilayer metasurface with resonant plasmonic elements

Davit Manukyan, Henrik A. Parsamyan, 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

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Dark-probe scanning near-field microscopy

Henrik Parsamyan, Torgom Yezekyan, Khachatur Nerkararyan, Sergey I Bozhevolnyi

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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

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

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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, Kiejn 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, Kiejn 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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Միկրոալիքային խոցող զենք. տեսության և կառուցվածքի որոշ հարցեր

Հ. Ս. Հարոյան, Խ. Վ. 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

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Broadband microwave absorption based on the configuration resonance of wires

Henrik Parsamyan, Hovhannes Haroyan, Khachatur Nerkararyan

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Статья

Core-shell particles as efficient broadband absorbers in infrared optical range

KHACHATUR V. NERKARARYAN, ANDREY B. EVLYUKHIN, SERGEY I. BOZHEVOLNYI

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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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Kh. Sahakyan, Kh. Nerkararyan

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Khachik Sahakyan, Hovhannes Haroyan, Kh. Nerkararyan

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

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Статья

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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Аналитическое описание тороидального резонатора высокой добротности в терагерцовой области частот

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

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