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Institute of Physics

Chair of Telecommunications and Signal Processing

Head of the chair, associate professor

Language skills

Simple English Русский

Publications

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

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

Heliyon 2024 e24477

Article

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

Journal of Physics D: Applied Physics 2024 355108

Article

Tunable ultra-broadband terahertz metamaterial absorber based on vanadium dioxide strips

Lilit Gevorgyan, Hovhannes Haroyan, Henrik Parsamyan, Khachatur Nerkararyan

RSC Advances 2023 11948-11958

Article

Broadband tunable mid-infrared absorber based on conductive strip-like meta-atom elements

Henrik Parsamyan, Hovhannes Haroyan, Khachatur Nerkararyan

Materials Today Communications 2022 103692

Article

Electrically Small Microstrip Antenna Based on Magnetodielectric Materials

Hovhannes Haroyan, Arsen Hakhoumian, Ararat Stepanyan

Journal of Telecommunications and Information Technology 2022 98-102

Article

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

Article

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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Article

Microwave response phase control of a graphite microstrip

Arsen Babajanyan, Tigran Abrahamyan, Hovhannes Haroyan, Billi Minasyan, Torgom Yezekyan, Kiejn Lee, Barry Friedman, Khachatur Nerkararyan
Carbon 2022 151-156

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Broadband Absorption of Microwaves in Periodic Cylindrical Structures

Lilit Gevorgyan, Henrik A. Parsamyan, Hovhannes Haroyan
Springer Proceedings in Physics (Optics and Its Applications) 2022 39-46

Article

Broadband Infrared Absorption Due to Low Q-factor Dipole Modes of Cr Strips

H. A. Parsamyan, D. S. Hambaryan, H. S. Haroyan
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Article

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

Article

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

Hovhannes Haroyan, Henrik Parsamyan, Khachatur Nerkararyan
Optics Communications 2020 126122(1-5)

Article

Broadband microwave absorption based on the configuration resonance of wires

Henrik Parsamyan, Hovhannes Haroyan, Khachatur Nerkararyan
Applied Physics A: Materials Science and Processing 2020 773

Article

Semicylindrical microresonator: excitation, modal structure, and Q-factor

H. HAROYAN, H. PARSAMYAN, KH. NERKARYAN, T. YEZEKYAN

Applied Optics 2018 6309-6313

Article

Power Domain Non-orthogonal Multiple Access (PD-NOMA) Technique For 5G Networks

H. Haroyan, G. Hovsepyan, S. Sargsyan

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Article

Plasmonic Nanoparticles Arrangements for Biosensing

H. Haroyan, T. Yezekyan, H. Parsamyan

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Article

Fano Resonance in Coupled Semicylindrical Microresonators

H. Haroyan, T. Yezekyan, H. Parsamyan, A. Ninoyan

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Article

Waveguide resonator with high quality factor excited through the subwavelength slit

Khachik Sahakyan, Hovhannes Haroyan, Kh. Nerkaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 45-52

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Stopping power and the straggling parameter of a heavy charged particle moving through a homogeneous free-electron gas

H. Matevosyan, K. Sargsyan, H. Haroyan

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Article

Построение гибридных программных систем PIC-моделирования

Д. А. Осипян, Г. Г. Матевосян, О. С. Ароян

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Article

Широкодиапазонная диэлектрическая проницаемость столкновительной плазмы с произвольным зарядом ионов

М. Е. Вайсман, Н. Е. Андреев, Г. Г. Матевосян, О. С. Ароян

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Detection of CO₂ laser radiation in a ferrite

H. Haroyan, A. Makaryan, K. Movsisyan, Farokh Nazari, V. Tadevosyan, H. Julfayan

Journal of Physics: Conference Series 2016 012007

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Analytic Description of Various Ring Type Surface Plasmon Microresonators

H. Haroyan

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High Gain Broadband Plasmonic Slot Nano-Antenna

H. S. Haroyan, V. R. Tadevosyan

International Journal of Computer, Electrical, Automation, Control and Information Engineering 2015
1070-1073

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Article

Cylindrical plasmonic microcavity and its excitation

Hovhannes Haroyan

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<http://spie.org/publications/conference-proceedings>

Manual

«Վիճակագրական ռադիոֆիզիկա» լաբորատոր աշխատանքների ձեռնարկ

Ա. Ժ. Բաբաջանյան, Վ. Ռ. Թադևոսյան, Հ. Ս. Հարոյան, Ա. Հ. Մակարյան

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Conference

Whispering-Gallery Microresonator with a New Easy and Controllable Excitation Method

H. Parsamyan, H. Haroyan, Kh. Nerkararyan

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Slot Nano-Antenna Integrated with Plasmonic Waveguide

H. Haroyan

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Spectral Efficiency Improvement in Nonlinear Wireless Systems

H. Haroyan, T. Harytyunyan, S. Sargsyan, G. Harutyunyan

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, Kiejn Lee

Conference

Resonant interaction between microwaves and thin conducting microstructure with finite length

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