

Henrik Ashot Parsamyan

Institute of Physics

Chair of Applied Electrodynamics and Modeling

Assistant

☎ 23-10

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Education

Institution	Yerevan State University
Faculty	Radiophysics
Date	2018 - 2021
Degree name	PhD student

Institution	Yerevan State University
Faculty	Radiophysics
Date	2016 - 2018
Degree name	Masters

Institution	Yerevan State University
Faculty	Radiophysics
Date	2012 - 2016
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Faculty	Ռադիոֆիզիկա
Date	2021
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	Khachatur Nerkararyan
Research Topic	Modulation and absorption of the infrared radiation in micro and nanostructures with cylindrical symmetry

Language skills

Հայերեն English Русский

Work experience

Institution	Yerevan State University
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Period of time	2021 till now
Rank/degree	Professor Assistant

Membership

Institution	Optica (formerly Optical Society of America)
Period of time	2018 till now

Publications

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

Gap-enhanced optical bistability in plasmonic core-nonlinear shell dimers

Artyom Movsisyan, Henrik Parsamyan
Nanoscale 2024 2030-2038

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

Dark-probe scanning near-field microscopy

Henrik Parsamyan, Torgom Yezekyan, Khachatur Nerkararyan, Sergey I Bozhevolnyi
New Journal of Physics 2023 103015

Manual

Գիտափորձի ավտոմատացում LabVIEW միջավայրում

Տիգրան Աբրահամյան, Հենրիկ Պարսամյան
2023 93

Article

3D visualization of microwave electric and magnetic fields by using a metasurface-based indicator

Zhirayr Baghdasaryan, Arsen Babajanyan, Henrik Parsamyan, Barry Friedman, Seungwan Kim, Jung-Ha Lee, Kiejin Lee
Scientific Reports 2022 6150

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

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

Article

3D Visualization Method Based on Metastructure Optical Indicator of Thermoelastic Polarization Microscope for Electromagnetic Fields in Microwave and THz Ranges

A. Babajanyan, Zh. Baghdasaryan, H. Parsamyan, B. Friedman, K. Lee

NanoWorld Journal 2022 S4

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,

Kiejun Lee, Barry Friedman, Khachatur Nerkararyan

Journal of Physics D: Applied Physics 2022 445001

Article

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

Springer Proceedings in Physics (Optics and Its Applications) 2022 59-68

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

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

Near-perfect broadband infrared metamaterial absorber utilizing nickel

Henrik Parsamyan

Applied Optics 2020 7504-7509

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

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

Conference

Filtering of terahertz radiation by a metasurface structure

Simonyan Karen, Parsamyan Henrik, Gharagalyan Hermine, Khachatryan Ashot, Yerosyan Mkrtych

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, Kiejin Lee
