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Научно-исследовательский институт физики
Ռադիոֆիզիկայի և հեռահաղորդակցության կենտրոն
Руководитель группы

Научно-исследовательский институт физики
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Руководитель группы

Образование

Учреждение	Ереванский государственный университет
Факультет	Радиофизика
Дата	2018 - 2021
Степень / Звание	Аспирант

Учреждение	Ереванский государственный университет
Факультет	Радиофизика
Дата	2016 - 2018
Степень / Звание	Магистр

Учреждение	Ереванский государственный университет
Факультет	Радиофизика
Дата	2012 - 2016
Степень / Звание	Бакалавр

Ученое звание/Ученая степень

Учреждение	Ереванский государственный университет
Дата	2021
Степень / Звание	Кандидат наук
Научный руководитель	Хачатур В. Неркарарян
Научная тема	Модуляция и поглощение инфракрасного излучения в микро и нанометрических структурах с цилиндрической симметрией

Знание языков

Հայերեն English Русский

Опыт работы

Учреждение	Ереванский государственный университет
Период времени	2025 до настоящего времени
Звание/степень	Руководитель группы нанооптики и моделирования

Учреждение	Ереванский государственный университет
Период времени	2021 до настоящего времени
Звание/степень	Асистент

Членство

Учреждение	Optica (formerly Optical Society of America)
Период времени	2018 до настоящего времени

Публикации

Статья

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

Статья

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

https://pubs.rsc.org/en/content/articlelanding/2026/na/d5na00985e

Статья

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

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Статья

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

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Статья

Slotted gap-surface plasmon resonator as an efficient platform for sensing
Roza Gabrielyan, Gurgen Arabajyan, Torgom Yezekyan, Henrik Parsamyan

Optics Express 2025 2593-2603

Статья

L-cysteine polymorph coatings for THz sensing metasurfaces
M. Zhezhu, A. Vasil'ev, H. Parsamyan, T. Abrahamyan, G. Baghdasaryan, S. Gyozalyan, D. Ghazaryan,

H. Gharagulyan

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Статья

Revisiting THz absorption in GO and rGO liquid crystalline films
A. Vasil’ev, M. Zhezhu, H. Parsamyan, G. Baghdasaryan, M. Sargsyan, D.A. Ghazaryan, H. Gharagulyan

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Investigation of the Mode Composition of a Terahertz Pulse in a Nonlinear Crystal Partially Filling a Waveguide with Parallel Plates [Исследование модового состава терагерцового импульса в нелинейном кристалле, частично заполняющем волновод с параллель...
A. S. Nikoghosyan, G. A. Parsamyan, A. A. Poghosyan, V. R. Tadevosyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2025 354-360

https://link.springer.com/article/10.1134/S1068337225700690

Конференция

TERAHERTZ RESPONCE OF GRAPHENE-LIKE STRUCTURES
L. Avanesyan, A. Vasil'ev, M. Zhezhu, H. Parsamyan, G. Baghdasaryan, M. Sargsyan, D. A. Ghazaryan,

H. Gharagulyan

2025 24 - 24

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Конференция

Resonances Induced by Structural Asymmetry in the THz Domain and Their Applications
Sara Gyozalyan, Marina Zhezhu, Alexey Vasil'ev, Henrik Parsamyan, Tigran Abrahamyan,

Gayane Baghdasaryan, Davit A. Ghazaryan, Hermine Gharagulyan

2025 85-86

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Конференция

Terahertz Response of Liquid Crystalline GO and rGO Thin Films
Lilit Avanesyan, Alexey Vasil'ev, Marina Zhezhu, Henrik Parsamyan, Gayane Baghdasaryan,

Maksim Sargsyan, Davit A. Ghazaryan, Hermine Gharagulyan

2025 43-44

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Конференция

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

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Статья

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

Статья

Gap-enhanced optical bistability in plasmonic core-nonlinear shell dimers
Artyom Movsisyan, Henrik Parsamyan

Nanoscale 2024 2030-2038

Статья

Laser polarization as a critical factor in the SERS-based molecular sensing performance of nano-gapped Au nanowires
Simón Roa, Terunori Kaihara, María Laura Pedano, Henrik Parsamyan, Paolo Vavassori

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Статья

Broadband THz metasurface bandpass filter/antireflection coating based on metalized Si cylindrical rings
Karen Simonyan, Hermine Gharagulyan, Henrik Parsamyan, Ashot Khachatryan, Mkrtich Yeranosyan

Semiconductor Science and Technology 2024 095012

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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

Applied Surface Science 2024 161105

Статья

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

Journal of Physics D Applied Physics 2024 355108

Конференция

Engineering Electromagnetic Hotspots in Gap-Surface Plasmon Resonators
Henrik Parsamyan, Roza Gabrielyan, Gurgen Arabajyan, Torgom Yezekyan

2024 72 - 73

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Статья

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

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

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Filtering of terahertz radiation by a metasurface structure
Simonyan Karen, Parsamyan Henrik, Gharagalyan Hermine, Khachatryan Ashot, Yeranosyan Mkrtich

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Конференция

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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Образовательный Руководство

Գիտափորձի ավտոմատացում LabVIEW միջավայրում
Տիգրան Աբրահամյան, Հենրիկ Պարսամյան

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Статья

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

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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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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

Статья

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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Broadband Absorption of Microwaves in Periodic Cylindrical Structures
Lilit Gevorgyan, Henrik A. Parsamyan, Hovhannes Haroyan

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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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Статья

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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Конференция

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

Optics Communications 2020 126122(1-5)

Статья

Near-perfect broadband infrared metamaterial absorber utilizing nickel
Henrik Parsamyan
Applied Optics 2020 7504-7509

Статья

Broadband microwave absorption based on the configuration resonance of wires
Henrik Parsamyan, Hovhannes Haroyan, Khachatur Nerkararyan

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Статья

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 2019 2643-2649
