

Генрих Ашот Парсамян

Научно-исследовательский институт физики

Руководитель группы

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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
Факультет	Ռադիոֆիզիկա
Дата	2021
Степень / Звание	Кандидат наук
Специальность	Физико-математические науки
Научный руководитель	Хачатур В. Неркарян
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 Ассистент

Членство

Учреждение Optica (formerly Optical Society of America)

Период времени 2018 до настоящего времени

Публикации

Статья

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

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

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

Статья

L-cysteine polymorph coatings for THz sensing metasurfaces

M. Zhezhu, A. Vasil'ev, H. Parsamyan, T. Abrahamyan, G. Baghdasaryan, S. Gyozyalyan, D. Ghazaryan,

H. Gharagulyan

Results in Physics 2025 108351

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

Optics and Laser Technology 2025 113628

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

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

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

Nanoscale 2024 15280 - 15297

Статья

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

Broadband THz metasurface bandpass filter/antireflection coating based on metalized Si cylindrical rings

Karen Simonyan, Hermine Gharagulyan, Henrik Parsamyan, Ashot Khachatryan, Mkrtich Yerosyan

Semiconductor Science and Technology 2024 095012

Статья

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

Lilit Gevorgyan, Hovhannes Haroyan, Henrik Parsamyan, Khachatur Nerkararyan

RSC Advances 2023 11948-11958

Статья

Dark-probe scanning near-field microscopy

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

New Journal of Physics 2023 103015

Образовательный Руководство

Գիտափորձի ավտոմատացում LabVIEW միջավայրում

Տիգրան Աբրահամյան, Հենրիկ Պարսամյան

2023 93

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

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

Henrik Parsamyan, Hovhannes Haroyan, Khachatur Nerkararyan
Materials Today Communications 2022 103692

*Статья***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

*Статья***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
NanoWorld Journal 2022 S5

*Статья***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
Journal of Physics D: Applied Physics 2022 445001

*Статья***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

*Статья***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

*Статья***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

Статья

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

Applied Physics A: Materials Science and Processing 2020 773

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: Optical Physics 2019 2643-2649

Конференция

Filtering of terahertz radiation by a metasurface structure

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

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

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

Конференция

Engineering Electromagnetic Hotspots in Gap-Surface Plasmon Resonators

Henrik Parsamyan, Roza Gabrielyan, Gurgen Arabajyan, Torgom Yezekyan

Конференция

TERAHERTZ RESPONSE OF GRAPHENE-LIKE STRUCTURES

L. Avanesyan, A. Vasil'ev, M. Zhezhu, H. Parsamyan, G. Baghdasaryan, M. Sargsyan, D. A. Ghazaryan,

H. Gharagulyan

Конференция

Resonances Induced by Structural Asymmetry in the THz Domain and Their Applications

Sara Gyoalyan, Marina Zhezhu, Alexey Vasil'ev, Henrik Parsamyan, Tigran Abrahamyan,

Gayane Baghdasaryan, Davit A. Ghazaryan, Hermine Gharagulyan

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

Конференция

Realizing multiple bound states in the continuum in optical and THz metasurfaces

T. Abrahamyan, H. Parsamyan, D. Hambaryan, Kh. Nerkararyan
