Vahe Razmik Tadevosyan

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Institute of Physics
Chair of Radiophysics and Telecommunications
Associate professor

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Ռադիոֆիզիկայի և հեռահաղորդակցության կենտրոն

Ֆիզիկատեխնիկական հետազոտությունների լաբորատորիա

Scientific Worker

Education

Institution	Yerevan State University
Faculty	Faculty of radiophysics
Date	2002 - 2005
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2000 - 2002
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	1996 - 2000
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2012
Degree name	Associate professor

Institution	Yerevan State University
Date	2005
Degree name	Candidate

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University
Period of time	2023 till now
Rank/degree	Deputy director of Institute of Physics YSU, head of the office

Institution	Yerevan State University
Period of time	2012 till now
Rank/degree	Associate profesor of the department of Radiophysics and Electronics

Institution	Yerevan State University
Period of time	2005 - 2012
Rank/degree	Assistant Professor of the Department of Microwave Radiophysics and Telecommunications

Publications

Conference

Modal Composition of a Terahertz Pulse in a Parallel-plate Waveguide Partially Filled with a Nonlinear GaSe or DAST Crystal

A. A. Pogosyan, A. S. Nikoghosyan, V.R. Tadevosyan

Journal of Physical Mathematics & its Applications 2026 1 - 1

https://srcpublishers.com/physical-mathematics-its-applica/issue/view/2111

Article

Terahertz Radiation in a Parallel Metal Plate Waveguide Partially Filled with a Nonlinear Optical Crystal [Терагерцовое излучение в волноводе с параллельными металлическими пластинами, частично заполненном нелинейно-оптическим кристаллом]

A. S. Nikoghosyan, V. R. Tadevosyan

Radiophysics and Quantum Electronics 2025 823-832

Article

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

Article

Generation of THz radiation in a plane-parallel artificial PPLN crystal with a THz diffraction grating in output

Y. Sahakyan, Yu. Avetisyan, A. Kirakosyan, A. Makaryan, V. Tadevosyan

IET conference proceedings. 2024 42-44/208333

Article

Исследование оптического детектирования наносекундных лазерных импульсов в ферромагнитных кристаллах Y3Fe5O12 и YFeO3
Д.А. Багдасарян, Г.С. Геворкян, А.О. Макарян, Ю.С. Саакян, В.Р. Татевосян

Proceedings of NAS RA Physics 2023 250-254

Article

Investigation of Nanosecond Laser Pulses Optical Detection in Ferrimagnetic Crystals Y3Fe5O12 and YFeO3
D. H. Baghdasaryan, G. S. Gevorkyan, A. H. Makaryan, Y. S. Sahakyan, V. R. Tadevosyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 184-187

Article

Detection of amplitude-modulated laser radiation in transparent orthoferrite
D. H. Baghdasaryan, A. H. Makaryan, Y. S. Sahakyan, V.R. Tadevosyan

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
2023 22987027/ 60-62

Article

Features of a THz pulse generated in the metallic waveguides partially filled with nonlinear crystals
A.S. Nikoghosyan, V.R. Tadevosyan, G.N. Goltsman, S.V. Antipov

Journal of Physics Conference Series 2023 012013

Article

Broadband TeraHertz waveguide partially filled with a nonlinear crystal
A. S. Nikoghosyan, V. R. Tadevosyan

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
2023 Pages 56 - 59

Study manual

ԽՆԴԻՐՆԵՐ ՌԱԴԻՈՏԵԽՆԻԿԱՅԻ ՏԵՍԱԿԱՆ ՀԻՄՈՒՆՔՆԵՐԻՑ (գծային շղթաներ)
Կարեն Մովսիսյան, Վահե Թադևոսյան, Դավիթ Բաղդասարյան

2022 186

Article

Critical Wavelength in the Metal Waveguide Partially Filled with Nonlinear Crystal
A. S. Nikoghosyan, V. R. Tadevosyana, G. N. Goltsman, S. V. Antipov

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 366–370

Article

КРИТИЧЕСКАЯ ДЛИНА ВОЛНЫ В ВОЛНОВОДЕ, ЧАСТИЧНО ЗАПОЛНЕННОМ НЕЛИНЕЙНЫМ КРИСТАЛЛОМ
А.С. НИКОГОСЯН, В.Р. ТАТЕВОСЯН, Г.Н. ГОЛЬЦМАН, С.В. АНТИПОВ

Proceedings of NAS RA Physics 2021 с.543–549

Article

ВЛИЯНИЕ ПОГЛОЩЕНИЯ НА ЭФФЕКТИВНОСТЬ ГЕНЕРАЦИИ ТЕРАГЕРЦОВОГО ИЗЛУЧЕНИЯ В

МЕТАЛЛИЧЕСКОМ ВОЛНОВОДЕ, ЧАСТИЧНО ЗАПОЛНЕННОМ НЕЛИНЕЙНЫМ КРИСТАЛЛОМ LiNbO3, DAST ИЛИ ZnTe
А.С. НИКОГОСЯН, Р.М. МАРТИРОСЯН, А.А. АХУМЯН, А.О. МАКАРЯН, В.Р. ТАТЕВОСЯН, Г.Н. ГОЛЬЦМАН, С.В. АНТИПОВ
Proceedings of NAS RA Physics 2019 128–137

Article

Optical detection of femtosecond laser pulses in a ferromagnet as a result of its magnetization by the magnetic field of the laser pulse
A. H. Makaryan, V. R. Tadevosyan, A. S. Nikoghosyan, T. S. Yezekyan, M. A. Kazaryan

Proceedings of SPIE - The International Society for Optical Engineering 2019 113222E(1-4)

Article

Frequency Conversion in The Ferromagnet at Low Magnetic Bias Fields
T. Yezekyan, A. Makaryan, V. Tadevosyan

Armenian Journal of Physics 2018 191-195

Article

Effect of Absorption on The Efficiency of THz Radiation Generation in a Nonlinear Crystal Placed Into a Waveguide
A.S. Nikoghosyan, R.M. Martirosyan, A.A. Hakhoumian, A.H. Makaryan, V.R.Tadevosyan, G.N. Goltsman, S.V. Antipov
Armenian Journal of Physics 2018 257-262

Conference

Frequency conversion in the ferromagnet at low magnetic bias fields
T. Yezekyan, A. Makaryan, V. Tadevosyan

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Conference

Effect of attenuation on the efficiency of THz radiation generation in a nonlinear crystal integrated into a waveguide
A.S. Nikoghosyan, R.M. Martirosyan, A.A. Hakhoumian, A.O. Makaryan, V.R. Tadevosyan, G.N. Goltsman, S.V. Antipov
2018 TH-P-7

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Conference

Noncollinear THz generation by optical rectification in periodically poled lithium niobate crystals
Y. Avetisyan, R. Miroyan, V. Tadevosyan

2018 TH-8

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Article

Investigation of Detection of Microwave Radiation in Ferromagnetic YIG
H. Julfayan, A. Makaryan, V.R. Tadevosyan

Armenian Journal of Physics 2017 9-13

http://ajp.asj-oa.am/

Article

Design of a Multistep Phase Mask for High-Energy Terahertz Pulse Generation by Optical Rectification

Y. Avetisyan, A. Makaryan, V. Tadevosyan, M. Tonouchi

Journal of Infrared Millimeter and Terahertz Waves 2017 1439–1447

https://www.springer.com/engineering/electronics/journal/10762

Conference

Design of a multistep phase mask for high-energy THz pulse generation in ZnTe crystal

Yuri H. Avetisyan, Armen Makaryan, Vahe Tadevosyan

2017 103830A1-9

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Article

ИССЛЕДОВАНИЕ ПАРАМЕТРОВ ТЕРАГЕРЦОВЫХ ИМПУЛЬСОВ, ГЕНЕРИРУЕМЫХ В ОДНОДОМЕННОМ КРИСТАЛЛЕ LiNbO3 С ПОМОЩЬЮ СТУПЕНЧАТОЙ ФАЗОВОЙ МАСКИ

Г.К. АБГАРЯН, Ю.О. АВЕТИСЯН, А.О. МАКАРЯН, В.Р. ТАТЕВОСЯН

Proceedings of NAS RA Physics 2016 46-52

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Article

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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Магнитно-нелинейные материалы для детектирования электромагнитного излучения

Джулфаян А., Мартиросян Р. М., Макарян А. О., Мыхитарян В. М., Назари Ф., Татевосян В. Р.

Физические Основы приборостроения 2016 88-97

http://elibrary.ru/title_about.asp?id=37911

Conference

Ferromagnetic detector of infrared radiation

D. Bagdasaryan, A. Hakhoumian, R. Martirosian, A. Julfayan, A. Makaryan, F. Nazari, V. Tadevosyan

2016 57-60

http://www.irphe.am

Conference

Terahertz pulses generation via optical rectification in LiNbO3 crystal by step-wise phase mask

G. Abgaryan, Yu. H. Avetisyan, A. H. Makaryan, V. R. Tadevosyan

2016 45-48

Article

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

https://www.waset.org/journal/Electrical

Study manual

«Վիճակագրական ռադիոֆիզիկա» լաբորատոր աշխատանքների ձեռնարկ

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

2012 86