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🌐 Language skills

Հայերեն Русский English

📖 Publications

Article

Sensor Technologies for Brain Signal Registration and RF Emission Analysis

Babken Hovhannisyanyan, Tigran Hovhannisyanyan, Armen Makaryan, Vanand Mkhoyan

Armenian Journal of Physics 2025 48-52

Article

Narrowband terahertz generation in a plane-parallel Rb:KTP crystal using a phase mask

Yuri H. Avetisyan, Armen H. Makaryan

Journal of the Optical Society of America B: Optical Physics 2024 873-878

Article

Исследование параметров нейронной системы спинного мозга в терагерцовой области частот

Т. Н. Оганесян, А. О. Макарян, академик Р. М. Мартиросян

Доклады НАН РА 2024 16-23

Article

Investigation of Nerve Fiber Network in THz Spectrum Range

T. Hovhannisyanyan, A. Makaryan

Armenian Journal of Physics 2024 17-20

Article

Investigation of nonlinear properties of animal spinal cord in THz range

Tigran Hovhannisyanyan, Armen Makaryan, Radik Martirosyan

IET Conference Proceedings 2024 19 - 22 / 208333

Article

Statistical analysis of the electroencephalographic signals

Babken Hovhannisyanyan, Tigran Hovhannisyanyan, Armen Makaryan, Eduard Sivolenko, Vanand Mkhoyan

IET Conference Proceedings 2024 23-25

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

Article

Generation of THz Pulses in the Transparent Ferromagnetic Materials by Optical Rectification of Ultrafast Laser Pulses

David Baghdasaryan, Armen Makaryan, Vahram Mekhitarian, Aram Poghosyan, Yuri Sahakyan

IET Conference Proceedings 2024 79 - 81

Article

Biosignal processing using machine learning methods

A. Mkoyan, A. Manasyan, A. Makaryan, B. Hovhannisyan, T. Hovhannisyan, S. Khachunts

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
2023 22987012/ 4-6

Article

Исследование оптического детектирования наносекундных лазерных импульсов в ферромагнитных кристаллах $Y_3Fe_5O_{12}$ и $YFeO_3$

Д.А. Багдасарян, Г.С. Геворкян, А.О. Макарян, Ю.С. Саакян, В.Р. Татевосян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2023
250-254

Article

Investigation of Nanosecond Laser Pulses Optical Detection in Ferrimagnetic Crystals $Y_3Fe_5O_{12}$ and $YFeO_3$

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

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2023 22987027/ 60-62

Article

Biosignal processing using machine learning methods

T. Hovhannisyan, A. Makaryan, B. Hovhannisyan, S. Khachunts, A. Mkoyan, A. Manasyan

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
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Article

Генерация узкополосного терагерцового импульса в кристалле ниобата лития с помощью фазовой маски

Ю.О. АВETИСЯН, А.О. МАКАРЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2023
555-563

Article

Narrow-band terahertz pulse generation in lithium niobate crystal using phase mask

Y. H. Avetisyan, A.H. Makaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 362–368

Article

High-energy multicycle THz pulse generation in artificial PPLN crystal

Y. H. Avetisyan, A. H. Makaryan, M. I. Bakunov

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Article

Registration of Brain Radio Signals and Their Bispectral Analysis

B. A. Hovhannisyan, H.L. Ayvazyan, S.V. Antonyan, A. H. Makaryan, E. R. Sivolenko, G. A. Tsaturyan

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Article

Extracting Human Brain Signals from the EEG Records Using LabVIEW and Advanced Signal Processing

Babken Hovhannisyan, Eduard Sivolenko, Armen Makaryan, Hamlet Ayvazyan, Andrei Medvedev,

Valentina Temkina

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Article

РЕГИСТРАЦИЯ РАДИОСИГНАЛОВ МОЗГА И ИХ БИСПЕКТРАЛЬНЫЙ АНАЛИЗ

Г.Л. АЙВАЗЯН, С.В. АНТОНЯН, А.О. МАКАРЯН, Б.А. ОГАНЕСЯН, Э.Р. СИВОЛЕНКО, Г.А. ЦАТУРЯН

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Article

Laterally Emitting Nearly Single-Cycle THz Pulse Generation in Two-Dimensional Aperiodically Poled Lithium Niobate Crystal

Y. Avetisyan, A. Makaryan, G. Arabajyan, M. Tonouchi

IEEE Xplore 2022 183280

Article

Միկրոալիքային խոցող զեներ. տեսության և կառուցվածքի որոշ հարցեր

Հ. Ս. Հարոյան, Խ. Վ. Ներկարարյան, Ա. Ա. Հախումյան, Ա. Հ. Մակարյան, Կ. Ռ. Միրզոյան

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ЧАСТОТНО-ВРЕМЕННОЙ АНАЛИЗ ЭЛЕКТРОКАРДИОГРАММ

Б.А. ОГАНЕСЯН, А.О. МАКАРЯН, Т.Н. ОГАНЕСЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2020

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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,
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128-137

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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

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Article

Frequency Conversion in The Ferromagnet at Low Magnetic Bias Fields

T. Yezekyan, A. Makaryan, V. Tadevosyan

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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,

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Investigation of Detection of Microwave Radiation in Ferromagnetic YIG

H. Julfayan, A. Makaryan, V.R. Tadevosyan

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

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

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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

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2016
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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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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

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Manual

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

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Conference

High Efficient Terahertz Generation Using Tilted-Pulse- Front Photoexcitation of Semiconductor Surface

Yu. Avetisyan, A. Makaryan, M. Tonouchi

Conference

Ferromagnetic detector of infrared radiation

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

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

Conference

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

Yuri H. Avetisyan, Armen Makaryan, Vahe Tadevosyan

Conference

Frequency conversion in the ferromagnet at low magnetic bias fields

T. Yezekyan, A. Makaryan, V. Tadevosyan

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
