Արսեն Ժորայի Բաբաջանյան

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Ֆիզիկայի ինստիտուտ
Ռադիոֆիզիկայի և հեռահաղորդակցության ամբիոն
Ամբիոնի վարիչ (պրոֆեսոր)

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Ֆիզիկայի գիտահետազոտական ինստիտուտ
Ռադիոֆիզիկայի և հեռահաղորդակցության կենտրոն
Կենտրոնի ղեկավար

Հրապարակումներ

Հոդված

Dual-resonant anisotropic all-dielectric near-infrared bandstop filter with enhanced spectral and angular stability
Artyom Movsisyan, Arsen Babajanyan

Optics Communications 2026 132754

https://www.sciencedirect.com/science/article/pii/S0030401825012829

Հոդված

Maximal mass strange quark stars based on the modified MIT model with variable vacuum pressure
Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan

Nuclear Physics B 2026 117277

Հոդված

Advanced optical indicators based on functional metastructure for thermoelastic optical indicator microscope
Artyom Movsisyan, Billi Minasyan, Hasmik Manukyan, Zhirayr Baghdasaryan, Kiejin Lee,

Arsen Babajanyan

Measurement 2026 120441

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Multimodal Microwave Analysis of Ag and Graphite Nanoparticle Suspensions: Size, Concentration, and Temperature Effects
Narek Nazaryan, Nelli Babajanyan, Artyom Movsisyan, Billi Minasyan, Kiejin Lee, Arsen Babajanyan

Sensors and Actuators A Physical 2026 117968

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The Absolute Stability and Mass Constraints of Strange Stars in the MIT Bag Model
Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan

Particles 2026 53 - 53

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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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The impact of non-zero quark masses on the Equation of State and the Maximum Mass of Strange Quark Stars

Hasmik Shahinyan, TIgran Sargsyan, Arsen Babajanyan

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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

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Pulsars with the masses 2.14M⊙ and 2.27M⊙ as strange star candidates

Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan

Journal of High Energy Astrophysics 2024 126-131

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Reflective multi-layer metasurface based on half-wave plate structure for polarization control in the visible-near-infrared region

Artyom Movsisyan, Hasmik Manukyan, Billi Minasyan, Arsen Babajanyan

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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

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Mice Glucose Level Monitoring by a Non-Invasive Microwave Imaging Technique

Zhirayr Baghdasaryan, Arsen Babajanyan, Sua Jeong, Jung-Ha Lee, Barry Friedman, Kiejin Lee

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Numerical Solutions of Certain Time-Independent Quantum Mechanics Problems by Using the Python Environment

H. Shahinyan, L. Ghazaryan, A. Babajanyan

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Resonant detection of surface microwaves using dielectric-coated conductive rods coupled with a cut Goubau line

Tigran Abrahamyan, Gor Ohanyan, Hovhannes Haroyan, Arsen Babajanyan, Khachatur Nerkararyan

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Characterization of microwave response of the mesh-pattern vs. uniformly-coated indium-tin-oxide indicator for the thermoelastic optical microscope: a comparative analysis

Artyom Movsisyan, Hasmik Manukyan, Billi Minasyan, Zhirayr Baghdasryan, Kiejin Lee,

Arsen Babajanyan

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Characterization of interaction phenomena of electromagnetic waves with metamaterials via microwave near-field visualization technique

Zhirayr Baghdasaryan, Arsen Babajanyan, Barry Friedman, Kiejin Lee

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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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Detecting Low Dose of Glucose in the Microwave Range By Using Thermoelastic Optical Indicator Microscope

Tigran Abrahamyan, Nelli Babajanyan, David Hambaryan, Hasmik Manukyan, Arsen Babajanyan,

Kiejin Lee

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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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Characterization of Metal Nanoparticles Aqueous Solution by a Thermoelastic Optical Indicator Microscope

G. Ohanyan, N. Margaryan, M. Manvelyan, L. Odabashyan, B. Minasyan, A. Movsisyan, R. Khachatryan,

A. Babajanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 187-191

Հոդված

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

Հոդված

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

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Microwave and Joule Heating Visualization by a Thermo-Elastic Microscope for Carbon Composite Materials

Sh. Arakelyan, A. Babajanyan, G. Berthiau, B. Friedman, K. Lee

Springer Proceedings in Physics (Optics and Its Applications) 2022 69-77

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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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Microwave response phase control of a graphite microstrip

Arsen Babajanyan, Tigran Abrahamyan, Hovhannes Haroyan, Billi Minasyan, Torgom Yezekyan,

Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

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Microwave and Joule heating visualization by a thermo-elastic sensor for carbon composite materials

Shant Arakelyan, Arsen Babajanyan, Gerard Berthiau, Barry Friedman, Kiejin Lee

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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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Noninvasive in Vivo Evaluation of Mouse-Blood Glycemia with a Microwave Spiral Sensor

A. Babajanyan, B. Minasyan, L. Odabashyan, S. Kim, J. Kim, J.-H. Lee, B. Friedman, K. Lee

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 47–54

Հոդված

Visualization of microwave near-field distribution in sodium chloride and glucose aqueous solutions by a thermo-elastic optical indicator microscope
Arsen Babajanyan, Zhirayr Baghdasaryan, Levon Odabashyan, Jung-Ha Lee, Barry Friedman, Kiejin Lee

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Performance of Pentacene Based Organic Thin Film Transistor with an Octadecyltrichlorosilane Self-Assembled Monolayer Interface
A. Babajanyan, B. Minasyan, A. Movsisyan, B. Friedman, K. Lee

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Ատոմային և միջուկային ֆիզիկայի ընդհանուր դասընթացի լաբորատոր աշխատանքների ուղեցույց
Հասմիկ Շահինյան, Լուսինե Ղազարյան, Արսեն Բաբաջանյան

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Detection of Iron Nanoparticles in Aqueous Solutions by Microwave Sensor
L. Odabashyan, N. Margaryan, G. Ohanyan, M. Manvelyan, D. Hambaryan, T. Abrahamyan,

R. Khachatryan, A. Babajanyan

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Thermal distribution in unidirectional carbon composite material due to the direct heating and microwave influence visualized by a thermo-elastic optical indicator microscope
Zhirayr Baghdasaryan, Arsen Babajanyan, Levon Odabashyan, Shant Arakelyan, Hanju Lee,

Gerard Berthiau, Barry Friedman, Kiejin Lee

Measurement 2020 107189(1-7)

Հոդված

ОБНАРУЖЕНИЕ НАНОЧАСТИЦ ЖЕЛЕЗА В ВОДНЫХ РАСТВОРАХ С ПОМОЩЬЮ МИКРОВОЛНОВОГО СЕНСОРА
Л. ОДАБАШЬЯН, Н. МАРГАРЯН, Г. ОГАНЯН, М. МАНВЕЛЯН, Д. АМБАРЯН, Т. АБРААМЯН, Р. ХАЧАТРЯН,

А. БАБАДЖАНЯН

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COMPUTER MODELING OF MICROWAVE STRIPLINE RESONATORS FOR NON-INVASIVE SENSING
A. Zh. BABAJANYAN, B. J. MINASYAN, L. A. ODABASHYAN, Zh. A. BAGHDASARYAN, K. LEE

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Հոդված

Antenna Investigation by a Thermoelastic Optical Indicator Microscope: Defects Measurement and 3D Visualization of Electromagnetic Fields
Arsen Babajanyan, Shant Arakelyan, Hanju Lee, Seungwan Kim, Gerard Berthiau, Barry Friedman,

Kiejin Lee

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Հոդված

Investigation of Ag Nanoparticles/Water Solutions by Microwave Stripline Sensor
A. Babajanyan, T. Abrahamyan, R. Khachatryan, D. Hambaryan, B. Hovhannisyan, B. Minasyan,

L. Odabashyan

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ИССЛЕДОВАНИЕ РАСТВОРОВ НАНОЧАСТИЦ Ag В ВОДЕ С ПОМОЩЬЮ МИКРОВОЛНОВОГО ПОЛОСКОВОГО СЕНСОРА
А. БАБАДЖАНЯН, Т. АБРАМЯН, Р. ХАЧАТРЯН, Д. АМБАРЯН, Б. ОГАНЕСЯН, Б. МИНАСЯН,

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Real-time sensing the glucose concentration by quadratic-shaped microwave sensor
A. Zh. BABAJANYAN, B. A. HOVHANNISYAN, D. S. HAMBARYAN, L. A. ODABASHYAN

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Հոդված

Real-Time Noninvasive Measurement of Glucose Concentration Using a Modified Hilbert Shaped Microwave Sensor
Levon Odabashyan, Arsen Babajanyan, Zhirayr Baghdasaryan, Seungwan Kim, Jongchel Kim,

Barry Friedman, Jung-Ha Lee, Kiejin Lee

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Characterization of Ag nanoparticles concentration in aqueous solution by microwave biosensor
Arsen Babajanyan, Zh. Baghdasaryan, T. Abrahamyan, L. Odabashyan, H. Lee, D. Kim, M. Kim, S. Kim,

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Microwave Heating Visualization for Carbon Fibers Composite Material: Development of Tunable Microstrip Structures
Shant Arakelyan, Hanju Lee, Do-Suck Han, Arsen Babajanyan, Gerard Berthiau, Barry Friedman,

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Microwave Fractal Bandpass Filters Based on Modified Hilbert Curves of the First and the Second Orders
A. Babajanyan, H. Parsamyan, K. Lee

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МИКРОВОЛНОВЫЕ ФРАКТАЛЬНЫЕ ПОЛОСОВЫЕ ФИЛЬТРЫ, ОСНОВАННЫЕ НА МОДИФИЦИРОВАННЫХ КРИВЫХ ГИЛЬБЕРТА ПЕРВОГО И ВТОРОГО ПОРЯДКОВ
Г. ПАРСАМЯН, А. БАБАДЖАНЯН, K. LEE

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DETERMINATION OF GLUCOSE CONCENTRATION IN AQUEOUS SOLUTION BY USING MODIFIED HILBERT SHAPED MICROWAVE METAMATERIAL SENSOR

H. A. PARSAMYAN, A. Zh. BABAJANYAN, Sh. Kh. ARAKELYAN, K. LEE

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Performance of Pentacene-based Thin-film Transistors Fabricated at Different Deposition Rates

Arsen Babajanyan, Jinho Hwang, Duri Kim, Meenwoo Kim, Hanju Lee, Levon Odabashyan,

Zhirayr Baghdasaryan, Kiejin Lee, Deokjoon Cha

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Visualization of Microwave Heatingformesh-Patterned Indium-tin-Oxide by a Thermo-Elastic Optical Indicator Microscope

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Arsen Babajanyan, Jinho Hwang, Duri Kim, Meenwoo Kim, Levon Odabashyan, Zhirayr Baghdasaryan,

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Characterization of Heat Distribution and Microwave Absorption in a Carbon Composite Material by a Thermo-Elastic Optical Indicator Microscope

Aarsen Babajanyan, Zhirayr Baghdasaryan, Levon Odabashyan, Hanju Lee, Seungwan Kim,

Jongchel Kim, Jinho Hwang, Duri Kim, Meenwoo Kim, Deokjoon Cha, Kiejin Lee

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Real-Time Noninvasive Measurement of Glucose Concentration Using a Modified Hilbert Shaped Microwave Fractal Sensor

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3D visualization of electromagnetic fields and thermal distribution by the thermo-elastic optical indicator microscope

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Noninvasive in-vitro monitoring of D-glucose concentration by using a microwave fractal sensor

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B. Friedman, K. Lee

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Arsen Babajanyan, Tigran Abrahamyan, Shant Arakelyan, Khachatur Nerkararyan

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Sul A. Choi, Kyungchul Kim, Su Jin Lee, Hanju Lee, Arsen Babajanyan, Barry Friedman, Kiejin Lee

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Detection of Resonant Oscillations of the Liquid Surface by using a Tapered Fiber Opto-Mechanical Sensor

Tigran Abrahamyan, Arsen Babajanyan, Khachatur Nerkararyan, Stella Sargsyan

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The Resonant Coupling of the Quantum Dots in the Environment of Metal Nanoparticle at Optical Frequencies

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Magneto-Optical Visualization by Bi:YIG Thin Films Prepared at Low Temperatures

Ogsen Galstyan, Hanju Lee, Arsen Babajanyan, Arsen Hakhoumian, Barry Friedman, Kiejin Lee

Journal of Applied Physics 2015 163914. 6

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Հոդված

Sensitive Detection of Nano-Scale Vibrations by the Metal-Coated Fiber Tip at the Liquid-Air Interface

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International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering 2015 651-654

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

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Influence of Bismuth Substitution on Yttriumorthoferrite Thin Films Preparation by the MOD Method

Ogsen Galstyan, Hanju Lee, Jongwon Park, Jung-Ha Lee, Arsen Babajanyan, Barry Friedman, Kiejin Lee

Journal of Magnetism and Magnetic Materials 2015 310-314

http://www.journals.elsevier.com/journal-of-magnetism-and-magnetic-materials

Գիտաժողովի նյութ

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In Vitro Monitoring of HbA1C by a Microwave Biosensor

Arsen Babajanyan, Armen Abrahamyan, Seungwan Kim, Jongchel Kim, Jung-Ha Lee, Barry Friedman, Kiejin Lee

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Nondestructive label-free mapping of DNA bioassay using a near-field scanning microwave microscope

Arsen Babajanyan, Barry Friedman, Kiejin Lee

2015 9-10

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Ուսումնական ձեռնարկ

«Վիճակագրական ռադիոֆիզիկա» լաբորատոր աշխատանքների ձեռնարկ

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

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