

## Ֆիզիկայի ինստիտուտ

Ռադիոֆիզիկայի և հեռահաղորդակցության ամբիոն  
Ամբիոնի վարիչ (պրոֆեսոր)

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### **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

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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

Physica Scripta 2025 025515

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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, Kiejun Lee, Barry Friedman, Khachatur Nerkararyan

Heliyon 2024 e24477

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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

Physica Scripta 2024 095545

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Tigran Abrahamyan, Gor Ohanyan, David Hambaryan, David Kalantar, Henrik Parsamyan, Hovhannes Haroyan, Arsen Babajanyan, Kiejun Lee, Khachatur Nerkararyan

Journal of Physics D: Applied Physics 2024 355108

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Hasmik Shahinyan, Tigran Sargsyan, Arsen Babajanyan

Journal of High Energy Astrophysics 2024 126-131

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## **Python Environment**

H. Shahinyan, L. Ghazaryan, A. Babajanyan

Armenian Journal of Physics 2024 43-51

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

IEEE Access 2024 139711-139723

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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

IET Conference Proceedings 2024 11-14

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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 Baghdasaryan, Kiejin Lee,

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IET Conference Proceedings 2024 15-18

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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

Scientific Reports 2023 18457

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Zhirayr Baghdasaryan, Arsen Babajanyan, Henrik Parsamyanyan, 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

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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. Parsamyanyan, B. Friedman, K. Lee

NanoWorld Journal 2022 S4

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### **Resonant Interaction Between Microwaves and Thin Conducting Microstructure with Finite**

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T. Abrahamyan, H. Haroyan, D. Hambaryan, H. Parsamyan, K. Lee, A. Babajanyan, Kh. Nerkararyan  
NanoWorld Journal 2022 S5

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*Հոդված***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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*Հոդված***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

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*Հոդված***Microwave response phase control of a graphite microstrip**

Arsen Babajanyan, Tigran Abrahamyan, Hovhannes Haroyan, Billi Minasyan, Torgom Yezekyan, Kiejin Lee, Barry Friedman, Khachatur Nerkararyan

Carbon 2022 151-156

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*Հոդված***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

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*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

Scientific Reports 2021 2589

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*Հոդված***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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 208-213

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*Ուսումնական ձեռնարկ***Ատոմային և միջուկային ֆիզիկայի ընդհանուր դասընթացի լաբորատոր աշխատանքների ուղեցույց**

Հասմիկ Շահինյան, Լուսինե Ղազարյան, Արսեն Բաբաջանյան

2021 64

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*Հոդված***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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 171-175

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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)

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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. БАБАДЖАНИЯН

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

251-258

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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

Proceedings of the YSU A. Physical and Mathematical Sciences 2019 60-64

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**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

IEEE ANTENNAS AND PROPAGATION MAGAZINE 2019 27-31

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**Investigation of Ag Nanoparticles/Water Solutions by Microwave Stripline Sensor**

A. Babajanyan, T. Abrahamyan, R. Khachatryan, D. Hambaryan, B. Hovhannisyanyan, B. Minasyan,

L. Odabashyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 196-202

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Հոդված

**ИССЛЕДОВАНИЕ РАСТВОРОВ НАНОЧАСТИЦ Ag В ВОДЕ С ПОМОЩЬЮ МИКРОВОЛНОВОГО ПОЛОСКОВОГО СЕНСОРА**

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Л. ОДАБАШЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2019

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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

Proceedings of the YSU A. Physical and Mathematical Sciences 2019 132-137

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**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  
Sensors 2019 5525(1-11)

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Հոդված

**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, Kiejin Lee  
IEEE Transactions on Microwave Theory and Techniques 2018 883-888

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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  
Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 146-151

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**МИКРОВОЛНОВЫЕ ФРАКТАЛЬНЫЕ ПОЛОСОВЫЕ ФИЛЬТРЫ, ОСНОВАННЫЕ НА МОДИФИЦИРОВАННЫХ КРИВЫХ ГИЛЬБЕРТА ПЕРВОГО И ВТОРОГО ПОРЯДКОВ**

Г. ПАРСАМЯН, А. БАБАДЖАНЫАН, К. ЛЕЕ  
Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 193-200

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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  
Proceedings of the YSU A. Physical and Mathematical Sciences 2018 144-148

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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  
New Physics: Sae Mulli 2018 1192-1195

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**Glucose Aqueous Solution Sensing by Modified Hilbert Shaped Microwave Sensor**

A. Babajanyan, L. Odabashyan, Zh. Baghdasaryan, B. Friedman, K. Lee  
Armenian Journal of Physics 2018 214-222

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**Visualization of Microwave Heating formesh-Patterned Indium-tin-Oxide by a Thermo-Elastic Optical Indicator Microscope**

A. Babajanyan, Zh. Baghdasaryan, L. Odabashyan, H. Lee, B. Friedman, K. Lee  
Armenian Journal of Physics 2018 175-179

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**Direct imaging of the SSD and USB memory drives heating by thermo-elastic optical indicator microscopy**

Shant Arakelyan, Hanju Lee, Yeonghun Jeong, Arsen Babajanyan, Barry Friedman, Kiejin Lee

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**Characterization of Anisotropic Electrical Conductivity of Carbon Fiber Composite Materials by a Microwave Probe Pumping Technique**

Hanju Lee, Ogsen Galstyan, Arsen Babajanyan, Barry Friedman, Gerard Berthiau, Jongchel Kim,

Do Suck Han, Kiejin Lee

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**Effects of Thermal Preparation on Copper Phthalocyanine Organic Light Emitting Diodes**

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

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**Direct Current Imaging Using a Magneto-Optical Sensor**

Shant Arakelyan, Ogsen Galstyan, Hanju Lee, Arsen Babajanyan, Jung-Ha Lee, Barry Friedman, Kiejin Lee

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**Characteristics of Light Transfer in the Connected Conical Waveguides With the Same Symmetry Axis**

Shant Arakelyan, Tigran Abrahamyan, Arsen Babajanyan, Khachatur Nerkararyan

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**Near-Field Scanning Microwave Microscope As Nano-Resolution Characterization Technique**

Babajanyan A. J., Friedman B., Lee K.

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**Nondestructive Label-Free Mapping of DNA Bioassay Using a Near-Field Scanning Microwave Microscope**

Arsen Babajanyan, Barry Friedman, Kiejin Lee

Armenian Journal of Physics 2016 148-153

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**Specifications of Rabi oscillations in the quantum emitters systems coupled to the localized plasmon polaritons**

A. Zh. Babajanyan, S. Kh. Nerkararyan

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**Pre-Annealing Effects on a Pentacene Organic Thin Film Transistor With a Polymer Dielectric Interface**

Arsen Babajanyan, Sul A Choi, Kyungchul Kim, Shant Arakelyan, Hanju Lee, Barry Friedman, Kiejin Lee

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2016 61-64

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

A. J. Babajanyan, T. A. Abrahamyan, H. A. Minasyan, Kh. V. Nerkararyan

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

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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

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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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**In Vitro Monitoring of HbA1C by a Microwave Biosensor**

Seungwan Kim, Jongchel Kim, Armen Abrahamyan, Arsen Babajanyan, 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**

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**Microwave and Joule Heating Visualization by Thermo-Elastic Sensor for Carbon Fibers Composite Material**

Kiejin Lee, Shant Arakelyan, Hanju Lee, Sunghoon Jeon, Do-Suck Han, G. Berthiau, Arsen Babajanyan

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

Tigran Abrahamyan, Stella Sargsyan, Arsen Babajanyan, Khachatur Nerkararyan

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**Pre-Annealing Effects on a Pentacene Organic Thin Film Transistor with a Polymer Dielectric Interface**

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

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

Sona Nerkararyan, Arsen Babajanyan, Khachatur Nerkararyan

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**Microwave Characterization of Complex Dielectric Permittivity Dependence on Glucose Concentration in Blood Serum and Aqueous Solution**

Babajanyan A., Lee K., Kim S., Kim J., Friedman B., Arakelyan Sh., Parsamyan H.

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Գիտաժողովի նյութ

**Label-Free Monitoring of HbA1C by Microwaves**

Babajanyan A., Kim S., Kim J., Abrahamyan A., Friedman B., Lee K.

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**Detection of Nanometric Vibrations by Using Opto-Mechanical Sensor**

Arsen Babajanyan, Tigran Abrahamyan, Shant Arakelyan, Khachatur Nerkararyan

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**Noninvasive In Vitro Monitoring of Hba1c with a Microwave Biosensor**

Arsen Babajanyan, S. Kim, J. Kim, Shant Arakelyan, K. Lee, J.-H. Lee, B Friedman

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**Detecting Defects in Sub-Skin-Depth Metallic Layers by a Thermo-Elastic Sensor**

Arsen Babajanyan, Shant Arakelyan, Hanju Lee, Kiejin Lee, Barry Friedman

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**Effect of Pentacene Deposition Rate on OTFT**

Arsen Babajanyan, Jinho Hwang, Duri Kim, Meenwoo Kim, Levon Odabashyan, Zhirayr Baghdasaryan, Seungwan Kim, Jongchel Kim, Hanju Lee, Kiejin Lee, Deokjoon Cha

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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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*Գիտաժողովի նյութ*

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

Arsen Babajanyan, Levon Odabashyan, Zhirayr Baghdasaryan, Seungwan Kim, Jongchel Kim, Jinho Hwang, Meenwoo Kim, Hanju Lee, Deokjoon Cha, Kiejin Lee, Duri Kim

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

A. Babajanyan, K. Lee, Zh. Baghdasaryan, L. Odabashyan, S. Kim, J. Kim, Gerard Berthiau, B. Friedman

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

A. Babajanyan, L. Odabashyan, Zh. Baghdasaryan, T. Abrahamyan, N. Harutyunyan, S. Kim, J. Kim, B. Friedman, K. Lee

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**Sensing of silver nanoparticles in aqueous solutions by using an optical fiber probe-tip**

A. Babajanyan, T. Abrahamyan, R. Khachatryan, Kh. Nerkararyan

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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, K. Lee

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*Գիտաժողովի նյութ*

**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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*Գիտաժողովի նյութ*

**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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**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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**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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**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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