

## 📖 Публикации

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### **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 22987026/ 56-59

Статья

### **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

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2023 Pages 56 - 59

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### **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

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### **КРИТИЧЕСКАЯ ДЛИНА ВОЛНЫ В ВОЛНОВОДЕ, ЧАСТИЧНО ЗАПОЛНЕННОМ НЕЛИНЕЙНЫМ КРИСТАЛЛОМ**

А.С. НИКОГОСЯН, В.Р. ТАТЕВОСЯН, Г.Н. ГОЛЬЦМАН, С.В. АНТИПОВ

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2021  
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### **ВЛИЯНИЕ ПОГЛОЩЕНИЯ НА ЭФФЕКТИВНОСТЬ ГЕНЕРАЦИИ ТЕРАГЕРЦОВОГО ИЗЛУЧЕНИЯ В МЕТАЛЛИЧЕСКОМ ВОЛНОВОДЕ, ЧАСТИЧНО ЗАПОЛНЕННОМ НЕЛИНЕЙНЫМ КРИСТАЛЛОМ LiNbO<sub>3</sub>, DAST ИЛИ ZnTe**

А.С. НИКОГОСЯН, Р.М. МАРТИРОСЯН, А.А. АХУМЯН, А.О. МАКАРЯН, В.Р. ТАТЕВОСЯН, Г.Н. ГОЛЬЦМАН,  
С.В. АНТИПОВ

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Статья

**Optical Properties of Human Jawbone, Spongy Bone, and Human Bone Substitute Cerabone® in the Spectral Range 0.2 to 2.5 THz**

A.S. Nikoghosyan, J. Shen

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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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**Terahertz nonlinear waveguide-antenna driven by a femtosecond laser**

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**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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**Efficient Ultrashort THz Pulse Generation in LiNbO<sub>3</sub>, ZnTe, GaSe and DAST Crystals**

A. S. Nikoghosyan, R. M. Martirosyan, A. A. Hakhoumian

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**Dielectric Anisotropy of Human Bone and CERABONE® in the Terahertz Spectral Range 0.2 to 2.5 THz**

A.S. Nikoghosyan, H. Ting, J. Shen, R.M.Martirosyan, M.A. Kazaryan, M.Yu.Tunyan, A.V. Papikyan,

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**Optical Properties of Human Jawbone and Human Bone Substitute Cerabone® in the Terahertz Range**

A.S. Nikoghosyan, R.M.Martirosyan, H. Ting, J. Shen, M. Yu. Tunyan, A. V. Papikyan, A. A. Papikyan

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**Dielectric anizotropy of human bone in spectral range 0.2 to 2.5 THz**

A.S. Nikoghosyan, T. He, J. Shen, R.M. Martirosyan

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**Terahertz Waves Propagation in a LiNbO3 Wedge Antenna**

A.S. Nikoghosyan, Sh. Kh. Arakelyan

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**ОПТИЧЕСКИЕ СВОЙСТВА КОСТНОЙ ТКАНИ ЧЕЛЮСТИ ЧЕЛОВЕКА И ЗАМЕНИТЕЛЯ КОСТНОЙ ТКАНИ СЕРАБОН (CERABONE®) В ТЕРАГЕРЦОВОМ ДИАПАЗОНЕ**

А.С. НИКОГОСЯН, Р.М. МАРТИРОСЯН, J.SHEN, H. TING, М.Ю. ТУНЯН, А.В. ПАПИКЯН, А.А. ПАПИКЯН

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**Dielectric Anizotropy of Human Bone in THz Range**

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A.S. Nikoghosyan, T. He, J. Shen, R.M. Martirosyan, M.Yu.Tunyan, A.V. Papikyan, A.A. Papikyan

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**LiNbO3 КЛИНООБРАЗНАЯ ТГц АНТЕННА, ЧАСТИЧНО ЗАПОЛНЯЮЩАЯ МЕТАЛЛИЧЕСКИЙ ВОЛНОВОД**

А.С. НИКОГОСЯН

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**Conversion of short optical pulses to terahertz radiation in a nonlinear medium: Experiment and theory**

A.S. Nikoghosyan, R.A. Dudley, N. N. Zinov'ev, J. M. Chamberlain

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*Конференция*

**High Conversion Efficiency in a System "Nonlinear-Optical Crystal Partially Filling the Cross Section of a Rectangular Waveguide**

A.S. Nikoghosyan

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*Конференция*

**Physical Properties of Human Jawbone, Spongy Bone, Collagen and Cerabone® Bone Transplantation Material in Range of 0.2 to 2.5 THz**

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