

# Radik Martiros Martirosian

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## Research Institute of Physics

Submillimeter-Wave Laboratory

Chief Researcher

## 🌐 Language skills

Հայերեն Русский English

## 📖 Publications

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

### Violation of molecular structure of intracellular water as a possible cause of carcinogenesis and its suppression by microwave radiation(hypothesis)

Vitali Kalantaryan, Radik Martirosyan, Yuri Babayan, Voldemar Petrosyan

Computational and Structural Biotechnology Journal 2023 3437-3442

Article

### On the Possibility of Using Non-Ionizing Electromagnetic Radiation (Millimeter Waves) in Oncology

Ruzanna Khazaryan, Vitali P. Kalantaryan, Radik Martirosyan, Yura Babayan

Progress in Electrmagnetics Research Letters 2020 49-57

Article

### 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

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

128-137

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

Article

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

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

Armenian Journal of Physics 2018 263-268

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*Article*

**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,

A.A. Papikyan

Journal of Physics: Conference Series 2017 012005 pp.1 - 8

<http://iopscience.iop.org/journal/1742-6596>

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*Article*

**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](http://elibrary.ru/title_about.asp?id=37911)

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*Article*

**Action of Non-ionizing Radiation on Tumor and Healthy DNA**

V. Kalantaryan, R. Martirosyan, Y. Babayan, L. Nersesyan, H. Stepanyan, R. Vardapetyan

Armenian Journal of Physics 2016 100-105

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

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*Article*

**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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 pp. 256-264

<http://www.springer.com/physics/particle+and+nuclear+physics/journal/11958>

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*Article*

**Interaction of Anticancer drug Doxorubicin with Tumor DNA Irradiated by Nonionizing Millimeter Electromagnetic Waves**

V. Kalamtaryan, S. Hakobyan, R. Ghazaryan, R. Martirosyan

American Journal of Medical and Biological Research 2016 5

<http://www.sciepub.com/journal/ajmbr>

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*Article*

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

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

PROCEEDINGS of the International Conference on Microwave and THz Technologies, Photonics and Wireless Communications

2016 pp. 41 - 44

<http://irphe.asj-oa.am/93/1/Proceedings-IRPhE-2016.pdf>

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*Article*

**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

*Article*

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

A.S. Nikoghosyan, T. He, J. Shen, R.M. Martirosyan, M.A. Kazaryan, I.N. Feofanov, V.I. Sachkov

ЛАЗЕРНО-ИНФОРМАЦИОННЫЕ ТЕХНОЛОГИИ В МЕДИЦИНЕ,БИОЛОГИИ, ГЕОЭКОЛОГИИ И

ТРАНСПОРТЕ

2016 10

<https://elibrary.ru/item.asp?id=25871913>

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*Article*

**Optical Properties of Human Jawbone and CERABONE® in the Terahertz Range**

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

PROCEEDINGS of the International Conference on Microwave and THz Technologies, Photonics and

Wireless Communications

2016 49-52

<http://irphe.asj-oa.am/93/1/Proceedings-IRPhE-2016.pdf>

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*Conference*

**The low power electromagnetic millimeter waves influence on the cellular indicators of leucopoiesis**

Vitali Kalantaryan, Radik Martirosyan, Tsovinar Adamyan, Emma Gevorkyan

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*Conference*

**Thermostability of the Mitoxantrone-tumor DNA complexes irradiated by low power electromagnetic waves**

Vitali Kalantaryan, Radik Martirosyan, Sergey Hakobyan, Ruzanna Khazaryan

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*Conference*

**Interaction of netropsin with double-stranded nucleic acids irradiated with non ionizing athermal millimeter electromagnetic waves**

Kalantaryan V., Martirosyan R., Babayan Y., Hakobyan S.

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*Conference*

**What is the primary target of the action millimeter waves on biological objects?**

Vitali Kalantaryan, Radik Martirosyan, Yura Babayan, Hamlet Badalyan

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*Conference*

**Thermostability of the Mitoxantrone-tumor DNA complexes irradiated by low power electromagnetic waves**

V.P. Kalantaryan, R.M. Martirosyan, S.N. Hakobyan, R.S. Khazaryan

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*Conference*

**Ferromagnetic detector of infrared radiation**

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

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*Conference*

**Influence of nonionizing millimeter electromagnetic radiation on tumor and healthy DNA**

Vitali Kalantaryan, Radik Martirosyan, Yura Babayan, Pogos Vardevanyan

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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

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