

## 📖 Publications

*Article*

**Diffraction of light by a slit in anisotropic media with closed and open wave vector surface**

H. Eritsyan, A. Lalayan, A. Margaryan, H. Arakelyan

Journal of Instrumentation 2024 C 06002

*Article*

**Дифракция Фраунгофера на щели в однородную анизотропную среду с открытой поверхностью волновых векторов (Fraunhofer Diffraction by Slit Into a Homogeneous Anisotropic Medium with an Open Surface of Wave Vectors)**

Лалаян А. А., Ерицян О. С.

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 108-112 (77-80)

*Article*

**Fraunhofer diffraction by a slit between a vacuum and a non-magnetic medium with the magneto-optical Faraday effect**

A.A. Lalayan, H.S. Yeritsyan, A.L. Margaryan, H.M. Arakelyan

Journal of Physics: Conference Series 2023 012013

*Article*

**Fraunhofer Diffraction by a Slit into a Homogeneous Anisotropic Medium**

A. A. Lalayan, H. S. Eritsyan, A. L. Margaryan, A. G. Mkrtchyan, Zh. B. Khachatryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 49 - 53

*Article*

**ДИФРАКЦИЯ ФРАУНГОФЕРА НА ЩЕЛИ В ОДНОРОДНУЮ АНИЗОТРОПНУЮ СРЕДУ**

А.А. ЛАЛАЯН, О.С. ЕРИЦЯН, А.Л. МАРГАРЯН, А.Г. МКРТЧЯН, Ж.Б. ХАЧАТРЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 70-75

*Article*

**Polarization and Diffraction Peculiarities of Optical Media Possessing Simultaneously the Properties of Right and Left Substances**

A. A. Lalayan, A. R. Mkrtchyan, H. S. Eritsyan, Sh. K. Eritsyan, R. S. Hakobyan, Zh. B. Khachatryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 199-204

*Article*

**Diffraction on an aperture located between media with different refractive indices**

A.A.Lalayan, A. R. Mkrtchyan, H. S. Eritsyan, A.L. Margaryan

Armenian Journal of Physics 2020 185-192

*Article*

**ДИФРАКЦИЯ ЭЛЕКТРОМАГНИТНОЙ ВОЛНЫ ОТ КРУГЛОГО ОТВЕРСТИЯ, РАСПОЛОЖЕННОГО**

**МЕЖДУ ВАКУУМОМ И ВЕЩЕСТВОМ С ОТЛИЧНЫМ ОТ ЕДИНИЦЫ КОЭФФИЦИЕНТОМ  
ПРЕЛОМЛЕНИЯ**

А.А. ЛАЛАЯН, А.Р. МКРТЧЯН, О.С. ЕРИЦЯН, А.Л. МАРГАРЯН, Ш.К. ЕРИЦЯН, Ж.Б. ХАЧАТРЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2020  
487-491

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*Article*

**Millimeter-Wave Radiation of the Water and Biomedicine**

A. Lalayan, Y. Aghbalyan

Armenian Journal of Physics 2019 28-32

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*Article*

**ДИФРАКЦИОННАЯ НЕВЗАИМНОСТЬ В ДИФРАКЦИИ ЭЛЕКТРОМАГНИТНОЙ ВОЛНЫ НА  
ЩЕЛИ**

А.А. Лалаян, О.С. Ерицян, Ш.К. Ерицян, О.М. Аракелян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2018  
50-55

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*Article*

**Laser synthesis of hybrid nanoparticles for biomedicine**

A.A. Lalayan, H.K. Avetissian

Proceedings of SPIE-Progress in Biomedical Optics and Imaging 2018 10582(1-4)

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*Article*

**Formation of hybrid Si-Ni nanoparticles by laser ablation and luminescence properties of  
such nanosystem**

A. A. Lalayan, S. S. Israelyan, H. A. Movsesyan

Journal of Nanophotonics 2016 012523-6

<https://spie.org/publications/journals/journal-of-nanophotonics>

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*Article*

**Metal nanoparticles and IR laser applications in medicine for biotissue ablation and welding**

A. A. Lalayan, S. S. Israelyan

Laser Physics 2016 055605 (1-5)

<http://iopscience.iop.org/journal/1555-6611>

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*Article*

**Second Harmonic Diagnostics for Real-Time Monitoring of Biological Macromolecules  
Structural Changes**

A.A.Lalayan

Armenian Journal of Physics 2016 183-187

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

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*Conference*

**Millimeter-wave radiation of the water and biomedicine**

A. Lalayan, Y. Aghbalyan

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