

# Лусине Рафиковна Алоян

## Институт физики

Մոլեկուլային ֆիզիկայի ամբիոն  
И.о. заведующего кафедрой, ассистент

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## Образование

Учреждение	Ереванский Государственный Университет
Факультет	Молекулярная физика
Дата	2002 - 2006
Степень / Звание	Аспирант

Учреждение	Ереванский Государственный Университет
Факультет	Физики
Дата	2000 - 2002
Степень / Звание	Магистр

Учреждение	Ереванский Государственный Университет
Факультет	Физики
Дата	1996 - 2000
Степень / Звание	Бакалавр

## Ученое звание/Ученая степень

Учреждение	Ереванский Государственный Университет
Дата	2008
Степень / Звание	Аспирант
Научный руководитель	Ева Далян
Научная тема	Роль боковых заместителей при комплексообразовании пиридинил порфиринов с ДНК.

## Знание языков

English Русский

## Публикации

### Статья

**Enhanced DNA damage induced by ultrashort electron beams in the presence of a Cu-containing porphyrin**

L. Aloyan, H. Margaryan, P. Karataev

Образовательный Руководство  
Պարույր-Կծիկ անցումը ԴՆԹ-ի մոլեկուլում  
Լուսնին Ալոյան  
2024 50

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Статья  
**Spectral Study of the Binding of TMetAlPyP3 and ZnTMetAlPyP3 Porphyrins to DNA**  
L. R. Aloyan, A. A. Avetisyan  
Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 99-103

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Статья  
**Influence of Cation Porphyrins on DNA Damage during Irradiation by X-rays**  
L Aloyan, A Avetisyan, V Arakelyan, H Margaryan  
Journal of Physics: Conference Series 2023 012009

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Статья  
**Photovoltaic Tweezers Based on Optical Holography: Application to 2D Trapping of DNA Molecules on a Lithium Niobate Crystal**  
Lusine Aloyan, Yeva Dalyan, Lusine Tsarukyan, Anahit Badalyan, Rafael Drampyan  
Optical Memory and Neural Network 2023 S384-S395

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Статья  
**FLAP Collaboration: Tasks and Perspectives. Study of Fundamentals and New Applications of Controllable Generation of Electromagnetic Radiation by Relativistic Electrons Using Functional Materials**  
L. Aloyan, A. Avetisyan, Y. Dalyan, L. Grigoryan, N. Karapetyan, V. Kocharyan, A. Mkrtchyan, A. Movsisyan, A. Saharian, A. Shahbazyan, A. Baldin, 37  
Physics of Particles and Nuclei Letters 2021 338–353

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Статья  
**Formation of Parallel X-ray Beams with Controllable Quantity and Distances**  
T.R. Muradyan, E.H. Bagdasaryan, S.M. Petrosyan, H.H. Samsonyan, L.R. Aloyan, A.V. Shahverdyan, V.R. Kocharyan  
Armenian Journal of Physics 2020 175-179

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Статья  
**Focusing of X-Rays inside a single crystal under the temperature gradient**  
L. R. Aloyan, V. V. Margaryan, K. T. Hayrapetyan, S. N. Noreyan, V. A. Khachatryan, A. A. Kiziridi  
Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 264-270

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Статья  
**AREAL low energy electron beam applications in life and materials sciences.**  
V.M. Tsakanov, R.M.Aroutiounian, G.A.Amatuni, L.R.Aloyan, L.G.Aslanyan, V.Sh. Avagyan, N.S.Babayan, V.V.Buniyatyan, Y.B.Dalyan, H.D.Davtyan, M.V. Derdzyan, B.A.Grigoryan, N.E.Grigoryan, L.S.Hakobyan, S.G.Haroutyunian, V.V. Harutiunyan, K.L.Hovhannesyan, V.G.Khachatryan, N.W.Martirosyan,

G.S. Melikyan, A.G.Petrosyan, V.H.Petrosyan, A.A.Sahakyan, V.V.Sahakyan, A.A.Sargsyan, A.S.Simonyan, S.Sh.Tatikyan, G.V.Tsakanova, E.Tsovyan, A.S.Vardanyan, V.V.Vardanyan, A.S.Yeremyan, H.N.Yeritsyan, G.S.Zanyan

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment  
2016 248-253

<http://www.journals.elsevier.com/nuclear-instruments-and-methods-in-physics-res...>

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**Статья**

**New Porphyrins/Calf Thymus DNA Complexes. Their Thermostability**

Lusine ALOYAN, Yeva DALYAN, Aleksey GOGOLEV

Advanced Materials Research 2015 554-558

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**Статья**

**X-ray diffraction method for determination of interplanar spacing and temperature distribution in crystals under an external temperature gradient**

V. R. Kocharyan, A. S. Gogolev, A. E. Movsisyan, A. H. Beybutyan, S. G. Khlopuzyan, L. R. Aloyan

Journal of Applied Crystallography 2015 853-856

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**Статья**

**The stability of DNA-porphyrin complexes in the presence of Mn(II) ions.**

G. Ananyan, A. Avetisyan, L. Aloyan, Y. Dalyan

Biophysical Chemistry 2011 96-101

<http://www.elsevier.com/locate/biophyschem>

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**Конференция**

**Development of anticancer drug transporter on base of gold nanoparticles**

L.R.Aloyan, Y.B.Dalyan

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**Конференция**

**INFLUENCE OF PORPHYRINS ON DNA DAMAGE INDUCED BY HIGHER ENERGY ELECTRONS**

L.R. Aloyan

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**Конференция**

**The DNA Damage Induced by Higher Energy Electrons in Presence of Porphyrins**

L. R. Aloyan, L.G. Aslanyan, Y. B. Dalyan

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**Конференция**

**High energy electron beam radiation influence on DNA in the presence of porphyrins**

L.R. Aloyan, L.G. Aslanyan, Y.B. Dalyan

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**Конференция**

**The influence of CuTOEPyP4 porphyrin on DNA damage induced by high energy electron beam radiation.**

L. R. Aloyan, Y. B. Dalyan, S.G Haroutiunian

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**Конференция**

**The influence of FeTOEPyP4 porphyrins on DNA damage induced by high energy electron beam radiation.**

L.R. Aloyan, Y.B. Dalyan, S.G. Haroutiunian

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Конференция

**INFLUENCE OF CATION PORPHYRINES ON DNA DAMAGE DURING ELECTRON BEAM**

**IRRADIATION**

L.R. Aloyan, Y.B. Dalyan, S.G Haroutiunian

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Конференция

**The DNA Damage Induced by X-Ray Irradiation in the Presence of Porphyrins**

L.R. Aloyan, H.G. Margaryan

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Конференция

**Bessel Beam Assisted Photovoltaic Trapping of Micro/nanoobjects on a Lithium Niobate**

**Crystal**

L. Aloyan, Y. Dalyan, L. Tsarukyan, A. Badalyan, R. Drampyan

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Конференция

**Optical Techniques for the Study of DNA-porphyrin Interactions**

L. Aloyan, Y. Dalyan

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Конференция

**Влияние мультиплексивного шума на выходной сигнал ДНК-биосенсора**

Алоян Л., Аракелян В.Б., Парсаданян М.А., Варdevanян П.О.

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Конференция

**Influence of Cation Porphyrins on DNA Damage during Irradiation by X-rays**

L.R. Aloyan, A.A. Avetisyan, V.B. Arakelyan, H.G. Margaryan

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Конференция

**Ionizing radiation effects on biological molecules**

L.R. Aloyan

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Конференция

**The Influence of Porphyrins on DNA Damage Induced by Electron Beam**

L. Aloyan, V. Arakelyan, A. Avetisyan, H. Margaryan

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