

## Научно-исследовательский институт физики

Մակրոմոլեկուլարի ֆիզիկայի լաբորատորիա

Заведующий лабораторией

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#### **The Interaction of TOEPyP4 and ZnTOEPyP4 Porphyrins with G-Quadruplexes**

I. V. Vardanyan, M. Kh. Badalyan, Ts. M. Jomardyan, Y. B. Dalyan, S. G. Haroutiunian

Journal of Contemporary Physics (Armenian Academy of Sciences) 2025 115-119

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#### **Binding Parameters of CuTAIIPyP4 and CoTAIIPyP4 Porphyrins to DNA Using Adsorption Isotherms [Параметры связывания CuTAIIPyP4 и CoTAIIPyP4 порфиринов с ДНК по изотермам адсорбции]**

G. V. Ananyan, N. H. Karapetyan, Y. B. Dalyan, R. S. Ghazaryan, S. G. Haroutiunian

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024

347-352

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#### **Interaction of MnTOEtPyP4 porphyrin with DNA**

Gayane V. Ananyan, Yeva B. Dalyan, Nelli H. Karapetyan, Vigen G. Barkhudaryan, Ani A. Avetisyan

Journal of Biomolecular Structure and Dynamics 2023 7290-7296

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Anush L. Asatryan, Karine S. Matinyan, Lusine G. Aslanyan, Yeva B. Dalyan, Irina G. Artsruni

Asian Journal of Pharmaceutics 2023 502-508

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#### **Structural Transitions in Complementary G-Rich and C-Rich Strands and Their Mixture at Various pH Conditions**

Yeva B. Dalyan, Ishkhan V. Vardanyan, Samvel G. Haroutiunian, Milena Kh. Badalyan

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Lusine Aloyan, Yeva Dalyan, Lusine Tsarukyan, Anahit Badalyan, Rafael Drampyan

Optical Memory and Neural Network 2023 S384-S395

*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

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Gayane V. Ananyan, Nelli H. Karapetyan, Yeva B. Dalyan

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**THE INFLUENCE OF UREA ON G-QUADRUPLEX AND i-MOTIF STRUCTURES IN COMPLEMENTARY DNA SEQUENCES**

Ye. B. Dalyan, L. G. Aslanyan, I. V. Vardanyan

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**pH-dependent complex formation of Zn-mesotetra(4-N-hydroxyethylpyridyl) porphyrin with cancer DNA**

Nelli H. Karapetyan, Gayane V. Ananyan, Yeva B. Dalyan

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Н.Г. Карапетян, Г.В. Ананян, Е.Б. Далян, С.Г. Арутюнян

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**Thermodynamics of interaction of meso-tetra-(4Noxyethylpyridyl) porphyrin and its Cu(II)- and Co(II)- containing derivatives with A and B forms of DNA**

Ani A. Avetisyan, Ishkhan V. Vardanyan, Yeva B. Dalyan

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**Two-photon microscopy imaging of oxidative stress in human living erythrocytes.**

GOHAR TSAKANOVA, ELINA ARAKELOVA, VIOLETTA AYVAZYAN, ANNA AYVAZYAN, STEPAN TATIKYAN,

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**AREAL low energy electron beam applications in life and materials sciences.**

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V.G. Barkhudaryan, G.V. Ananyan, Y.B. Dalyan, S.G. Harutunyan

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**EVALUATION OF ERRORS IN DETERMINATION OF DNA MELTING CURVE REGISTERED WITH DIFFERENTIAL SCANNING CALORIMETRY**

D.Y. LANDO, I.E. GRIGORYAN, A.S. FRIDMAN, E.N. GALYUK, Y.B. DALYAN, S.G. HAROUTIUNIAN

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

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**COMPARATIVE ANALYSIS OF THE EFFECTS OF PLATINUM COMPOUNDS ON THERMOSTABILITY OF DNA**

I. E. GRIGORYAN, Ye. B. DALYAN, S. G. HAROUTIUNIAN

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