

## Publications

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*Article*

**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

ACS Omega 2023 47051-47056

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*Article*

**A study of the subdiffusion of small molecules in charged polyelectrolyte multilayers**

I. Vardanyan, V. Arakelyan, Z. Navoyan, E. Diamanti, S. E. Moya, E. Donath

Scientific Reports 2021 22585

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*Article*

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

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

Proceedings of the YSU. Physical and Mathematical Sciences 2020 115-122

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*Article*

**A Flow Cytometry Study of the Non-Fickian Diffusion of Small-Charged Molecules in Poly(diallyl dimethyl ammonium chloride)/Poly(styrene sodium sulfonate) Multilayers: Impact of the Layer Number, Top Layer, and Concentration of Diffusing Molecules**

Ishkhan Vardanyan, Zaven Navoyan, Sergio Enrique Moya, Valeri Arakelyan, Edwin Donath

Journal of Physical Chemistry B 2019 2182-2189

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*Article*

**A typical diffusion monitored by flow cytometry: slow diffusion of small molecules in polyelectrolyte multilayers**

E. Donath, I. Vardanyan, S. Meyer, R. A. Murray, S. E. Moya, Z. Navoyan, V. Arakelyan

Nanoscale 2018 765-772

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*Article*

**Effect of urea on G-quadruplex stability**

Yeva B. Dalyan, Ishkhan Vardanyan, Lusine Aslanyan, Tigran V. Chalikian, Jordan Ko, Byul G. Kim

Journal of Physical Chemistry B 2017 6511-6519

<http://pubs.acs.org/journal/jpcbfk>

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*Article*

**Thermodynamics of interaction of meso-tetra-(4-Noxyethylpyridyl) 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

Journal of Porphyrins and Phthalocyanines 2017 731-738

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*Monograph*

**Երևանի պետական համալսարանի գործունեության գնահատման առանցքային ցուցանիշներ (2010-2015)**

Ա. Հ. Սիմոնյան, Ա. Կ. Արիգորյան, Գ. Գ. Գևորգյան, Ռ. Լ. Մարկոսյան, Ա. Ս. Բուդաղյան,

Մ. Գ. Սանթրուրյան, Ա. Ն. Սարգսյան, Ի. Վ. Վարդանյան, Ռ. Գ. Գրիգորյան

2017 96

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*Monograph*

**The Key Performance Indicators of Yerevan State University (2010-2015)**

A. H. Simonyan, A. K. Grigoryan, G. G. Gevorgyan, R. L. Markosyan, A. S. Budaghyan, M. G. Santurjyan,

A. N. Sargsyan, I. V. Vardanyan, R. G. Grigoryan

2017 94

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*Conference*

**The investigation of sodium-induced G-quadruplex stability and thermodynamics in urea solution**

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

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*Conference*

**Influence of ZnO nanoparticles in the stability and conductivity of BLM depending on its composition**

Gayane V. Ananyan, Syuzi M. Grigoryan, Tsovinar Jomardyan, Ishkhan V. Vardanyan,

Valery. B. Arakelyan

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