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Language skills

Русский Հայերեն English

Publications

Article

STABILITY AND CONDUCTIVITY OF BILAYER LIPID MEMBRANE IN PRESENCE NANOPARTICLES

Jomardyan, T. M., Ananyan, G. V., Arakelyan, V.

Proceedings of the YSU. Physical and Mathematical Sciences 2023 23-30

Article

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

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

Article

ИЗМЕНЕНИЕ ВЫХОДНОГО СИГНАЛА ДНК-БИОСЕНСОРА, ИНДУЦИРОВАННОГО АДСОРБЦИЕЙ ЛИГАНДОВ НА ДУПЛЕКСЫ ДНК В ФЛУКТУИРУЮЩЕЙ СРЕДЕ

В.Б. Аракелян, А.П. Антонян, М.А. Парсаданян, М.А. Шагинян, П.О. Вардеванян

Биофизика (Biophysics) 2020 670-675

Article

Hybridization kinetics of DNA fragments in the presence of ligands intercalating into DNA-duplexes

Valeri B. Arakelyan, Aleksandr Y. Mamasakhlisov, Eduard M. Kazaryan, Marine A. Parsadanyan,

Poghos O. Vardevanyan

Journal of Biomolecular Structure and Dynamics 2020 1-6

Article

Влияние адсорбции лигандов на выходной сигнал ДНК-биосенсора

В.Б. Аракелян, А.Т. Карапетян, П.О. Вардеванян

Биофизический Вестник 2019 61-67

Article

Памяти профессора Юрия Павловича Благого - воспоминания коллег из Ереванского

университета

Аракелян В.Б., Карапетян А.Т., Вардеванян П.О.

Биофизический Вестник 2019 78-79

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

Article

INFLUENCE OF ZINC OXIDE NANOPARTICLES ON BILAYER LIPID MEMBRANE PROPERTIES

A. L. TOROSYAN, G. V. ANANYAN, V. B. ARAKELYAN

Proceedings of the YSU. Physical and Mathematical Sciences 2019 208-213

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

Article

INFLUENCE OF NANOPARTICLES OF CuO ON THE STABILITY AND CONDUCTIVITY OF BLM

A. L. TOROSYAN, G. V. ANANYAN, V. B. ARAKELYAN

Proceedings of the YSU. Physical and Mathematical Sciences 2018 p. 41-46

Article

Влияние интенсивности внешнего шума на кинетику связывания лигандов с рецепторами
Аракелян В.Б., Данько В.П., Григорян Р.П.

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 94-101

<http://www.flib.sci.am/eng/Fizika/Frame.html>

Article

INFLUENCE OF SODIUM DODECYL SULFATE ON STABILITY OF BILAYER LIPID MEMBRANES
L. A. TONAYAN, A. L. TOROSYAN, V. B. ARAKELYAN

Proceedings of the YSU. Physical and Mathematical Sciences 2016 58-63

<http://www.ysu.am/science/en/journals>

Article

THE MODELING OF CERTAIN PROBLEMS OF SPACE BIOLOGY IN EARTH CONDITIONS

G.E. Khachatryan, N.V. Simonyan, N.I. Mkrtychyan, V.B. Arakelyan, S.Sh. Tatikyan, V.M. Tsakanov, P.M. Antonyan, S.K. Karamyan, V.V. Harutyunyan

Biological Journal of Armenia 2016 21-29

<http://www.flib.sci.am/eng/Biology/>

Article

Some Aspects of Radioecology in the Areas Adjacent to Armenian NPP

Khachartyan G.E., Arakelyan V.B., Simonyan N.V., Mkrtychyan N.I., Avakyan T.M., Pyuskyulyan K.I.

Genetics, Evolution and Radiation 2016 315-328
<http://www.springer.com/gb/book/9783319488370>

Article

Influence of H₂TOEtPyP₄ porphyrin on the stability and conductivity of bilayer lipid membranes

Anahit Torosyan, Valeri Arakelyan

European Biophysics Journal with Biophysics Letters 2015 745-750

<https://link.springer.com/journal/249>

Article

АДСОРБЦИЯ КАТИОННЫХ Со-ПОРФИРИНОВ НА ЛИПОСОМЫ

В.Б. АРАКЕЛЯН, А.Л. ТОРОСЯН, Р.К. КАЗАРЯН

Հայաստանի կենսաբանական հանդես 2014 63-67

<http://www.flib.sci.am/eng/Biology/>

Article

Stability of Bilayer Lipid Membrane in the Presence of Co-Containing Metalloporphyrins

V. B. Arakelyan, A. L. Torosyan, R. K. Ghazaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2014 297-300

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

Article

CYCLIC CURRENT-VOLTAGE CHARACTERISTICS OF A BILAYER LIPID MEMBRANE IN THE PRESENCE OF PORPHYRIN

V. B. ARAKELYAN, A. L. TOROSYAN, R.K.Ghazaryan

Proceedings of the YSU. Physical and Mathematical Sciences 2014 60-63

<http://www.ysu.am/science/en/journals>

Article

Влияние малых концентраций cis-DDP на адсорбцию лигандов на ДНК

В. Б. Аракелян, С. Г. Арутюнян, Г. С. Саркисян, П. О. Вардеванян

Հայաստանի կենսաբանական հանդես 2008 175-182

Conference

The consistent description of diffusion and kinetic states of the adsorption of ligands on DNA immobilized molecules

Valeri B.Arakelyan, Zaven E. Navoyan, Gohar G. Hovhannisyan, Poghos O. Vardevanyan

Conference

Effect of concentration of ligands on DNA-biosensor average output signal and dispersion.

Valeri B. Arakelyan, Marine A. Parsadanyan, Poghos O. Vardevanyan

Conference

Changes in the stability and conductivity of BLM in the presence of zinc oxide nanoparticles

Anahit L. Torosyan, Gayane V. Ananyan, Valeri B. Arakelyan

Conference

ВЛИЯНИЕ АДСОРБЦИИ ЛИГАНДОВ НА СТАТИСТИЧЕСКИЕ ХАРАКТЕРИСТИКИ ВЫХОДНОГО СИГНАЛА ДНК-БИОСЕНСОРА

Аракелян В.Б., Антонян А.П., Парсаданян М.А., Шагинян М.А., Вардеванян П.О.

Conference

Influence of Metal Oxide Nanoparticles in the Stability and Conductivity of BLM

G.V. Ananyan, Ts.M. Jomardyan, V.B. Arakelyan

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

Conference

Влияние мультипликативного шума на выходной сигнал ДНК-биосенсора

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

Conference

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

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

Conference

The Influence of Porphyrins on DNA Damage Induced by Electron Beam

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