

Институт физики

Մոլեկուլային ֆիզիկայի ամբիոն

Доцент

Publications

Статья

Computational Design of Gas Sensors Based on V3S4 Monolayer

Hayk A. Zakaryan, Misha A. Aghamalyan, Yevgeni Sh. Mamasakhlisov, Ilya V. Chepkasov,

Ekaterina V. Sukhanova, Alexander G. Kvashnin, Anton M. Manakhov, Zakhar I Popov,

Dmitry G. Kvashnin

Nanomaterials 2022 774

Статья

Adsorption of Hydrogen Peroxide on Two-Dimensional Transition Metal Chalcogenides

M. A. Aghamalyan, V. M. Aroutiounian, E. S. Mamasakhlisov, E. V. Sukhanova, A. G. Kvashnin, Z. I. Popov,

A. A. Zakaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 170-173

Статья

The mechanism of flip-flops in a AOT lamella: A molecular dynamics study

Y. Sh. Mamasakhlisov, A.H. Poghosyan

Colloids and Surfaces A: Physicochemical and Engineering Aspects 2022 128681

Статья

Spectroscopic Study of Protein Complexes with Low-Molecular Compounds

P.O. Vardevanyan, M.A. Shahinyan, N.H. Petrosyan, Y.Sh. Mamasakhlisov

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Статья

Cold denaturation of RNA secondary structures with loop entropy and quenched disorder

Yevgeni Mamasakhlisov, Flavio Iannelli, Roland R Netz

Physical Review E 2020 012502(1-14)

Статья

Statistical mechanics of DNA-nanotube adsorption

Yevgeni Mamasakhlisov, Shushanik Tonoyan, Davit Khechoyan, Artem Badasyan

Physical Review E 2020 062422(1-5)

Статья

The Conductivity of the Monolayer of DNA - Quantum Dot Complexes in the Presence of Intercalating Charged Ligands

Y.S. Mamasakhlisov, V.F. Morozov, S.A. Tonoyan, E.M. Kazaryan, A.Y. Mamasakhlisov

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The Rouse Model of Viscoelasticity and Diffusion Behavior of Chromatin

Stepanyan V. A., Hayrapetyan A. A., Mamasakhlisov E.S

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Статья

THE CONDUCTIVITY OF THE MONOLAYER OF COMPLEXES OF DNA WITH QUANTUM DOTS IN THE PRESENCE OF INTERCALATING LIGANDS

Ye. Sh. MAMASAKHLISOV, A. Ye. MAMASAKHLISOV

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Статья

The double-stranded DNA stability in presence of a flexible polymer

Yevgeni Mamasakhlisov, Hakob Sngryan, Shushanik Tonoyan, Artur Hakobyan, Poghos Vardevanyan

Journal of Biomolecular Structure and Dynamics 2018 1-12

Статья

Sensitivity of DNA Sensors in the Presence of Charged Ligands

Sh.A. Tonoyan, A.A. Hakobyan, A.K. Andreassian, V.F. Morozov, Y.Sh. Mamasakhlisov

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Straight Calculations of Helix-Coil Transition Parameters in Heteropolymers

A.V. Asatryan, A.K. Andriasyan, A.A. Hakobyan, Sh.A. Tonoyan, Y.Sh. Mamasakhlisov, V.F. Morozov

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Переход порядок-беспорядок в гетерогенных биологических макромолекулах

А.В. Асатрян, А.К. Андриасян, Ш.А. Тоноян, Е.Ш. Мамасахлисов, В.Ф. Морозов

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Статья

AN INTEGRATED WEB-BASED INTERACTIVE DATA PLATFORM FOR MOLECULAR DYNAMICS SIMULATIONS

HRACHYA ASTSATRYAN, WAHI NARSISIAN, ELIZA GYULGYULYAN, VARDAN BAGHDASARYAN, ARMEN POGHOSYAN, YEVGENI MAMASAKHLISOV, PETER WITTENBURG

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Effect of ligands binding on the isotherm of hybridization of the DNA-chip

H.L. Tsaturyan, Sh.A. Tonoyan, V.F. Morozov, Y.Sh. Mamasakhlisov

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Fluctuations in order-disorder transitions in the DNA-ligand complexes with various binding mechanisms

Y.Sh. Mamasakhlisov, A.P. Antonyan, A.Y. Mamasakhlisov, Sh.A. Tonoyan, P.H. Vardevanyan

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Статья

On the Performance and Energy Consumption of Molecular Dynamics Applications for Heterogeneous CPU-GPU Platforms Based on Gromacs

Armen Poghosyan, Hrachya Astsatryan, Wahi Narsisian, Yevgeni Mamasakhlisov

Cybernetics and Information Technologies 2017 68-80

Статья

Possible mechanism of non-monotone behavior of helix-coil transition temperature in two-component solvent

Sh.A. Tonoyan, A.V. Asatryan, D.L.Hayrapetyan, Y.Sh. Mamasakhlisov, V.F. Morozov

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Theoretical treatment of helix-coil transition of complexes DNA with two different ligands having different binding parameters

Armen T.Karapetian, Zareh A.Grigoryan, Yevgeni Sh.Mamasakhlisov, Mikael V.Minasyants,

Poghos O. Vardevanyan

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Solvent effects in the helix-coil transition model can explain the unusual biophysics of intrinsically disordered proteins

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Конференция

The dsDNA duplex stability and carbon nanotube induced crystallization: the effect of two - component solvent

Sh.A. Tonoyan, A.V. Asatryan, S. Mirtavoosi, Y.Sh. Mamasakhlisov, V.F. Morozov

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Theoretical Description of ssDNA Adsorption on Carbon Nanotubes

Shushanik Tonoyan, Davit Khechoyan, Vardges Mambreyan, Vladimir Morozov, Yevgeni Mamasakhlisov

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Constrained Annealing Approach for Order-Disorder Transitions in heterogeneous Macromolecular Systems

Shushanik Tonoyan, A. Andreassian, A. Hakobyan, V.F. Morozov, Y.Sh. Mamasakhlisov

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The Helix-Coil Transition the Frames of GMPC. Ligands Effects

Vladimir Morozov, Aram Andriasyan, Saadat Mirtavoosi, Shushanik Tonoyan, Yevgeni Mamasakhlisov

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Reentrant Melting of Single - Stranded RNA with Quenched Sequence Randomness

Yevgeni Mamasakhlisov, A. Andreassian, A. Hakobyan

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Study of human serum albumin interaction with some ligands

P. Vardevanyan, Y. Mamasakhlisov, M. Shahinyan, M. Mikaelyan, N. Petrosyan
