

Ֆիզիկայի ինստիտուտ

Մոլեկուլային ֆիզիկայի ամբիոն

Դոցենտ

Publications

Հոդված

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

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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

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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

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Spectroscopic Study of Protein Complexes with Low-Molecular Compounds

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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 60-64

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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)

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Statistical mechanics of DNA-nanotube adsorption

Yevgeni Mamasakhlisov, Shushanik Tonoyan, Davit Khechoyan, Artem Badasyan

Physical Review E 2020 062422(1-5)

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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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 87-93

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The Rouse Model of Viscoelasticity and Diffusion Behavior of Chromatin

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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 254–258

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

Ye. Sh. MAMASAKHLISOV, A. Ye. MAMASAKHLISOV

Proceedings of the YSU. Physical and Mathematical Sciences 2019 203-207

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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

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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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 179-186

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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

Proceedings of the YSU. Physical and Mathematical Sciences 2018 47-54

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Переход порядок-беспорядок в гетерогенных биологических макромолекулах

A.B. Асатрян, А.К. Андриясян, Ш.А. Тоноян, Е.Ш. Мамасахлисов, В.Ф. Морозов

Вестник Российско-Армянского Университета: Физико-математические и естественные науки 2018 41-54

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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

Scalable Computing: Practice and Experience 2018 131-138

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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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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

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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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Generalized model of polypeptide chain for helix-coil transition in two-component solvent

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

A. Badasyan, Y. Sh. Mamasakhlisov, R. Podgornik, V. A. Parsegian

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Collapse and hybridization of RNA: View from replica technique approach

Y.Sh. Mamasakhlisov, S. Bellucci, Shura Hayryan, H. Caturyan, Z. Grigoryan, Chin-Kun Hu

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Differential Geometry in DNA Molecules

Armen Nersessian, Yevgeni Mamasakhlisov, Stefano Bellucci

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External field influence on semiflexible macromolecules: geometric coupling

Armen Nersessian, Yevgeni Mamasakhlisov, Stefano Bellucci

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Գիտաժողովի նյութ

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

Գիտաժողովի նյութ

Theoretical Description of ssDNA Adsorption on Carbon Nanotubes

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

Գիտաժողովի նյութ

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

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

Գիտաժողովի նյութ

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

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

Գիտաժողովի նյութ

Reentrant Melting of Single - Stranded RNA with Quenched Sequence Randomness

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Study of human serum albumin interaction with some ligands

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