

Most cited papers published in

**“Nanosystems: Physics, Chemistry,
Mathematics” in 2015**

**(in accordance with Web of Science and Scopus
citation databases, January, 2018).**

The authors will be awarded with diplomas.

On the Robin eigenvalues of the Laplacian in the exterior of a convex polygon

K. Pankrashkin

Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (1), 46-56.

**Crystallization behavior and morphological features of YFeO_3
nanocrystallites obtained by glycinenitrate combustion**

V.I. Popkov, O.V. Almjashaeva, V.N. Nevedomskiy, V.V. Sokolov, V.V. Gusarov.

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**Neutron scattering from graphene oxide paper and thermally exfoliated
reduced graphene oxide**

E.F. Sheka, I. Natkaniec, V. Mel'nikov, K. Druzbecki.

Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (3), 378-393.

**Cryometry and excess functions of the adduct of light fullerene C_{60} and
arginine – $\text{C}_{60}(\text{C}_6\text{H}_{12}\text{NaN}_4\text{O}_2)_8\text{H}_8$ aqueous solutions**

M.Yu. Matuzenko, A.A. Shestopalova, K.N. Semenov, N.A. Charykov, V.A. Keskinov.

Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (5), 715-725.

Dependence of the dimension of the associates of water-soluble tris-malonate of light fullerene — C_{60} [= $C(COOH)_2$] $_3$ in water solutions at 25 °C

K.N. Semenov, N.A. Charykov, A.S. Kritchenkov, I.A. Cherepkova, O.S. Manyakina, D.P. Tyurin, A.A. Shestopalova, V.A. Keskinov, K.V. Ivanova, N.M. Ivanova, D.G. Letenko, V.A. Nikitin, E.L. Fokina, M.S. Gutenev.

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From metamaterials to metasurfaces and metadevices

Yu. S.Kivshar

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On some application of boundary control method to spectral estimation and inverse problems

S.A. Avdonin, A.S. Mikhaylov, V.S. Mikhaylov

Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (1), 63-78.

On the derivation of the Schrodinger equation with point-like nonlinearity

C.Cacciapuoti

Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (1), 79-94.

Heat-stimulated transformation of zirconium dioxide nanocrystals produced under hydrothermal conditions

O. V.Almjasheva

Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (5), 697-703.

Cryometry and excess functions of fullerenols and trismalonates of light fullerenes – $C_{60}(OH)$ and $C_{70}[=C(COOH)_2]_3$ aqueous solutions

M.Yu. Matuzenko, D.P. Tyurin, O.S. Manyakina, K.N. Semenov, N.A. Charykov, K.V. Ivanova, V.A. Keskinov

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Intra pseudogap and superconductivity pair spin and charge fluctuations and underdome metal-insulator (fermion-boson) crossover phenomena as keystone of curate physics

B. Abdullaev, D.B. Abdullaev, C.-H. Park, M.M. Musakhanov

Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (6), 803-824.

Degradation of perovskites and Dexter-Varley paradox

B.L. Oksengendler, S.E. Maksimov, M.B. Marasulov

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The lateral capacitance of nanometer MNOSFET with a single charge trapped in oxide layer or at SiO₂-Si₃N₄ interface

A.E. Atamuratov, U.A. Aminov, Z.A. Atamuratova, M. Halillaev, A. Abdikarimov, H. Matyakubov Nanosystems: Physics, Chemistry, Mathematics. 2015. V. 6. (6), 837-842.

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Analytical benchmark solutions for nanotube flows with variable viscosity

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E. D.Eidelman

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Nanodisperse oxide compounds of iron formed in the FeSO₄ - KOH - H₂O - H₂O₂ system (4.0 ≤pH≤ 13.0)

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Time-dependent quantum graph

D.U. Matrasulov, J.R. Yusupov, K.K. Sabirov, Z.A. Sobirov

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A linearized model of quantum transport in the asymptotic regime of quantum wells

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Tunneling in multidimensional wells

T.F.Pankratova

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On the Stokes flow computation algorithm based on Woodbury formula

A.I. Popov, I.S. Lobanov, I.Yu. Popov, T.V. Gerya

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