

Публикации КОрХ 2020

1. Chumak A.Y., Denysieva Y.O., Kolomoitsev O.O., Kotlyar V.M., Shvets E.H., Doroshenko A.O., N-ethyl substituted 2-benzimidazolyl-3-hydroxychromone: Atypical to highly fluorescent dyes of flavonol series excited state intramolecular proton transfer to nitrogen, *Journal of Luminescence*, 223 (2020) 117206. doi: 10.1016/j.jlumin.2020.117206
2. Kolomoitsev O.O., Kotliar V.M., Tarasenko D.O., Buravov O.V., Doroshenko A.O. 2,4-Disubstituted 4-(1,3-thiazol-5-yl)but-3-en-2-ones: synthetic approaches to and consequent chemical modification, *Monatshefte für Chemie - Chemical Monthly*, 151 (2020) 765-772. doi: 10.1007/s00706-020-02612-7
3. Sakhno Y.I., Murlykina M.V., Zbruyev O.I., Kozyryev A.V., Shishkina S.V., Sysoiev D., Musatov V.I., Desenko S.M., Chebanov V.A. Ultrasonic-assisted unusual four-component synthesis of 7-azolylamino-4,5,6,7-tetrahydroazolo[1,5-a]pyrimidines. *Beilstein J. Org. Chem.* 16 (2020) 281–289. doi: 10.3762/bjoc.16.27
4. Semenenko O.M., Lipson V.V., Mironova V.V., Budianska L.V., Musatov V.I., Sofronov D.S. Domino-reactions of 3-methyl-5-aminopyrazole with 1-phenyl-3-(4-alkoxyphenyl)pyrazole-4-carbaldehydes and 2,2-dimethyl-1,3-dioxane-4,6-dione. *Journal of Organic and Pharmaceutical Chemistry*, 18 (2020) 69. doi: 10.24959/ophcj.20.194936
5. Slavgorodska M.V., Kyrychenko A.. Adsorption behavior of β -cyclodextrin onto gold nanoparticles. *Journal of Molecular Graphics and Modelling*, 94 (2020) 107483. doi: 10.1016/j.jmgm.2019.107483.
6. Kolos N.N., Nazarenko N.V., Shishkina S.V., Doroshenko A.O., Shvets E.G., Kolosov M.A., Yaremenko F.G. Synthesis, study of the structure, and modification of the products of the reaction of 4-aryl-4-oxobut-2-enoic acids with thiourea. *Chemistry of Heterocyclic Compounds*, 56 (2020) 1202-1209. doi: 10.1007/s10593-020-02798-y
7. Kulyk O.G., Biloborodov D.A., Cherevatenko M.A., Shyriakin Y.Y., Lyapunov A.Y., Mazepa A.V., Vashchenko V.V., Orlov V.D., Kolosov M.A. Versatile approaches to a library of building blocks based on 5-acylthiazole skeleton. *Synthetic Communications*, 50 (2020) 3616-3628. doi: 10.1080/00397911.2020.1808224
8. Kolosov M.A., Chuyko Y.I., Kulyk O.G., Mazepa A.V., Zavarzin V.V., Kholin Y.V. α -Aminophosphonate derivatives of triethoxysilane for the synthesis of surface-modified silica. *Synthetic Communications*, 50 (2020) 123-128. doi: 10.1080/00397911.2019.1689270
9. Shvets E.H., Pidvorotnya A.V., Kulyk O.G., Mazepa A.V., Kolosov M.A. A straightforward synthesis of 5-sulfonamidomethyl substituted 4,7-dihydroazolo[1,5-a]pyrimidines. *Synthetic Communications*, 50 (2020) *in press*. doi: 10.1080/00397911.2020.1821224
10. Vasquez-Montes, V.; Kyrychenko, A.; Vargas-Uribe, M.; Rodnin, M.V.; Ladokhin, A.S. Conformational Switching in Bcl-xL: Enabling Non-Canonic Inhibition of Apoptosis Involves Multiple Intermediates and Lipid Interactions. *Cells*, 9 (2020) 539. doi: 10.3390/cells9030539
11. Rodnin M.V., Kashipathy M.M., Kyrychenko A., Battaile K.P., Lovell S., Ladokhin A.S. Structure of the Diphtheria Toxin at Acidic pH: Implications for the Conformational Switching of the Translocation Domain. *Toxins*, 12 (2020), 704. doi: 10.3390/toxins12110704
12. Kyrychenko A., Blazhynska M.M., Kalugin O.N. Protonation-dependent adsorption of polyarginine onto silver nanoparticles. *Journal of Applied Physics* 127 (2020) 075502. doi: 10.1063/1.5138638
13. Kyrychenko A., Ladokhin A.S. Location of TEMPO-PC in Lipid Bilayers: Implications for Fluorescence Quenching. *J. Membrane Biol.* 253 (2020) 73–77. doi: 10.1007/s00232-019-00094-1

14. Slavgorodska M., Kyrychenko A. Structure and dynamics of pyrene-labeled poly(Acrylic acid): Molecular dynamics simulation study. *Chemistry and Chemical Technology*, 14 (2020) 76-80. doi: 10.23939/chcht14.01.076
15. Karpina V.R., Kovalenko S.S., Kovalenko S.M., Drushlyak O.G., Bunyatyan N.D., Georgiyants V.A., Ivanov V.V., Langer T., Maes L. A novel series of [1,2,4]triazolo[4,3-a]pyridine sulfonamides as potential antimalarial agents: In silico studies, synthesis and in vitro evaluation. *Molecules*, 25 (2020) 4485. doi: 10.3390/molecules25194485
16. Kovalenko S.M., Konovalova I.S., Merzlikin S.I., Chuev V.P., Kravchenko D.V. (1R,3S)-3-(1 H-Benzo[d]imidazol-2-yl)-1,2,2-trimethylcyclopentane-1-carboxylic acid as a new anti-diabetic active pharmaceutical ingredient. *Acta Crystallographica Section E: Crystallographic Communications*, 76 (2020) 1407-1411. doi: 10.1107/S2056989020010439
17. Kovalenko S.M., Drushlyak O.G., Shishkina S.V., Konovalova I.S., Mariutsa I.O., Bunyatyan N.D., Kravchenko D.V., Ivanov V.V., Ivachtchenko A.V., Langer T. Methylation of methyl 4-hydroxy-2-thioxo-1,2-dihydroquinoline-3-carboxylate: Synthetic, crystallographic, and molecular docking studies. *Molecules*, 25 (2020) 4238. doi: 10.3390/molecules25184238
18. Shishkina S.V., Konovalova I.S., Karpina V.R., Kovalenko S.S., Kovalenko S.M., Bunyatyan N.D. Concomitant polymorphic forms of 3-cyclo-propyl-5-(2-hydrazinylpyridin-3-yl)-1,2,4-oxa-diazole. *Acta Crystallographica Section C: Structural Chemistry*, 76 (2020) 836-844. doi: 10.1107/S2053229620010414
19. Kovalenko S.M., Drushlyak O.G., Mariutsa I.O. One-pot synthesis of novel fused mesoionic compounds: 1-substituted-5-thioxo-5,6-dihydro-[1,2,4]triazolo[1,5-c]quinazolin-1-ium-2-thiolates. *Journal of Sulfur Chemistry*, 41 (2020) 388-398. doi: 10.1080/17415993.2020.1742714
20. Severina H.I., Skupa O.O., Voloshchuk N.I., Saidov N., Bunyatyan V.A., Kovalenko S.M., Georgiyants V.A. Molecular docking, ADMET study and in vivo pharmacological research of N-(3,4-dimethoxyphenyl)-2-{[2-methyl-6-(pyridine-2-yl)-pyrimidin-4-yl]thio}acetamide as a promising anticonvulsant. *Research Results in Pharmacology*, 6 (2020) 27-41. doi: 10.3897/RRPHARMACOLOGY.6.53332
21. Bunyatyan N.D., Severina H.I., Mokhamad E.K.W., Zalevskyi S.V., Shtrygol' S.Y., Shark A.A., Tsivunin V.V., Kompantsev D.V., Shevchenko A.M., Kovalenko S.N., Georgiyants V.A., Ogay M.A., Khadzhieva Z.J. Synthesis and Anticonvulsant Activity of New 2-(4-Oxo-2-Thioxo-1,4-Dihydro-3(2h)-Quinazolinyl)Acetamides. *Pharmaceutical Chemistry Journal*, 54 (2020) 1-6. doi: 10.1007/s11094-020-02147-5
22. Severina H.I., Georgiyants V.A., Kovalenko S.M., Avdeeva N.V., Yarcev A.I., Prohoda S.N. Molecular docking studies of N-substituted 4-methoxy-6-oxo-1-aryl-pyridazine-3-carboxamide derivatives as potential modulators of glutamate receptors. *Research Results in Pharmacology*, 6 (2020) 69-82. doi: 10.3897/RRPHARMACOLOGY.6.52026
23. Ivachtchenko A.V., Kovalenko S.M., Kravchenko D.V., Mitkin O.D., Ivanov V.V., Langer T. Crystal structure, Hirshfeld analysis and a molecular docking study of a new inhibitor of the Hepatitis B virus (HBV): Ethyl 5-methyl-1,1-dioxo-2-{[5-(pentan-3-yl)-1,2,4-oxadiazol-3-yl]methyl}-2H-1,2,6-thiadiazine-4-carboxylate. *Acta Crystallographica Section E: Crystallographic Communications*, 76 (2020) 12-17. doi: 10.1107/S2056989019015986
24. Semenets A., Suleiman M., Kovalenko S., Georgiyants V., Pokrovskii M., Korokin M., Soldatov V., Bunyatyan V., Kobzar N., Grinevich L., Perekhoda L. Theoretical justification of a purposeful search of potential neurotropic drugs. *ScienceRise: Pharmaceutical Science*, 26 (2020) 4-17. doi: 10.15587/2519-4852.2020.210042