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МОНОГРАФИИ И ГЛАВЫ В МОНОГРАФИЯХ

1. Terenzhev D., Belov T., Menshova A., Tutuchkina V., Gatiyatullina A., Khakimova D., Egorova A., Shagidullin R., Kalinnikova T. The chemical composition and nematicidal activity of tagetes patula (L., 1753) extracts in experiments with soil nematodes *caenorhabditis elegans* (maupas, 1900) *caenorhabditis briggsae* (briggs, 1946) // in Benefits and Uses of Plant Extracts, 2024. – 310 p. ISBN: 979-8-89113-912-1. - P. 243–263. <https://doi.org/10.52305/LYVM5867>
2. Очерки о научной жизни академика А.И. Коновалова: монография / И.С. Антипин, О.Д. Бочкива, А.С. Овсянников [и др.] – Казань: ИОФХ им. А.Е. Арбузова ФИЦ КазНЦ РАН, 2024. – 246 с.
3. Редокс-активные молекулярные системы в создании эффективных противоопухолевых препаратов: монография / О.Г. Синяшин, И.В. Алабугин, А.Р. Бурилов [и др.] – Казань: ИОФХ им. А.Е. Арбузова ФИЦ КазНЦ РАН, 2024. – 108 с.

СТАТЬИ В ПЕРИОДИЧЕСКИХ НАУЧНЫХ ИЗДАНИЯХ

Госзадание (руководитель Карасик А.А.)

Q1

1. Akhmadeev B., Retyunskaya O., Islamova L., Fazleeva G., Kalinin A., Katsyuba S., Elistratova J., Sinyashin O., Mustafina A. Biomimetic nanoplatforms constructed from dialkylaminostyryl hetarene dyes and phospholipids exhibiting selective fluorescent response to specific proteins // Colloids and Surfaces B: Biointerfaces. – 2024. – Vol. 241. – Art. No. 114046. [10.1016/j.colsurfb.2024.114046](https://doi.org/10.1016/j.colsurfb.2024.114046)
2. Bahri J., Deolka S., Vardhanapu P.K., Khaskin E., Govindarajan R., Fayzullin R.R., Vasylevskyi S., Khusnutdinova J.R. Photoinduced Carbon–Heteroatom Cross-Coupling Catalyzed by Nickel Naphthyridine Complexes mechanophores // ChemCatChem. – 2024. – Vol. 15, №. 24. – Art. No. e202301142. [10.1002/cctc.202301142](https://doi.org/10.1002/cctc.202301142)
3. Bochkova O., Stepanov A., Bebyakina A., Smekalov D., Kholin K., Nizameev I., Romashchenko A., Zavjalov E., Lubina A., Voloshina A., Tyapkina O., Tarasov M., Sultanov T., Rümmeli M., Salnikov V., Budnikova Y., Mustafina A. Factors controlling the organ-specific T1 contrast effect of silica nanoparticles co-doped with both Mn²⁺ ions and oleate-coated iron oxides // Journal of Alloys and Compounds. – 2024. – Vol. 1008. – Art. No. 176581. [10.1016/j.jallcom.2024.176581](https://doi.org/10.1016/j.jallcom.2024.176581)
4. Chuprin A.S., Vologzhanina A.V., Dorovatovskii P.V., Budnikova Y.H., Khrizanforova V.V., Bogomyakov A.S., Fedin M.V., Novikov V.V., Voloshin Y.Z. Stabilization of a given type of 3d-metal-centered cage complexes via encapsulation and/or hydrogen abstraction // Inorg.Chem.Comm. – 2024. – Vol. 164. – Art. No. 112395. [10.1016/j.inoche.2024.112395](https://doi.org/10.1016/j.inoche.2024.112395)

5. Galimova M.F., Zueva E.M., Petrova M.M., Dobrynin A.B., Kolesnikov I.E., Musina E.I., Musin R.R., Karasik A.A., Sinyashin O.G. Design of luminescent complexes with different Cu₄I₄ cores based on pyridyl phenoxarsines // Dalton Trans. – 2024. – Vol. 53. – P. 1087-1098. 10.1039/D3DT03273F
6. Gavrilova T., Deeva Y., Uporova A., Chupakhina T., Yatsyk I., Rogov A., Cherosov M., Batulin R., Khrizanforov M., Khantimerov S. Li₃V₂(PO₄)₃ Cathode Material: Synthesis Method, High Lithium Diffusion Coefficient and Magnetic Inhomogeneity // Int. J. Mol. Sci. – 2024. – Vol. 25, Is. 5. – Art. No. 2884. 10.3390/ijms25052884
7. Govindarajan R., Vardhanapu P.K., Fayzullin R.R., Khaskin E., Khusnutdinova J.R. Facile Methyl Group Transfer from PtII to Gallium and Indium // Chem. Commun. – 2024. – Vol. 60, №. 56. – P. 7216–7219. 10.1039/D4CC02112F
8. Gridneva T., Karimata A., Bansal R., Fayzullin R.R., Vasylevskyi S., Bruhacs A., Khusnutdinova J.R. Deep-red photoluminescent mechanoresponsive polymers with dynamic CuI-arylamide mechanophores // Chem. Commun. – 2024. – Vol. 60, №. 2. – P. 212–215. 10.1039/D3CC04643E
9. Kagilev A.A., Gafurov Z.N., Sakhapov I. F., Morozov V.I., Kantukov A.O., Zaripov R.B., Zueva E.M., Mikhailov I.K., Dobrynin A.B., Kulikova V.A., Kirkina V.A., Gutsul E.I., Shubina E.S., Belkova N.V., Sinyashin O.G., Yakhvarov D.G. Electrochemical generation and in situ EPR-and UV-vis-observation of aminyl-radical diarylamido/bis (phosphine) pincer complexes of Ni, Pd and Pt // J. Electroanal. Chem. – 2024. – Vol. 956. – Art. No. 118084. 10.1016/j.jelechem.2024.118084
10. Kalinin A.A., Shustikov A.A., Islamova L.N., Levitskaya A.I., Petrov D.N., Fazleeva G.M., Valieva A.A., Sharipova A.V., Simanchuk A.E., Dobrynin A.B., Gubaiddullin A.T., Shmelev A.G., Babaeva O.B., Vakhonina T.A., Khamatgalimov A.R., Mikerin S.L., Balakina M.Yu. D-π-A chromophores based on novel macroacceptors - Fused (azinylmethylene) malononitriles: Linear and nonlinear optical properties in solution and in poled polymer films // Dyes Pigm. – 2024. - Vol. 227. – Art. No. 112184. 10.1016/j.dyepig.2024.112184
11. Kartashov S.V., Fedonin A.P., Fayzullin R.R. Exploring Interatomic Electron Transfer and Metal-Ligand Binding Mechanism in Trimethylenemethane Iron Tricarbonyl: Insights from Potentials per Electron and Corresponding Force Density Fields // Inorg. Chem. – 2024. – Vol. 63, Is. 46. - P. 21994-22008. Doi 10.1021/acs.inorgchem.4c03384
12. Kashapov R., Razuvayeva Y., Fedorova E., Zakharova L. The role of macrocycles in supramolecular assembly with polymers // Soft Matter. – 2024. – Vol. 20. – P. 8549-8560. Doi 10.1039/D4SM01053A
13. Kashapov R., Zakharova L. Introduction to Special Issue “The Self-Assembly and Design of Polyfunctional Nanosystems 3.0. // Int. J. Mol. Sci. – 2024. – Vol. 25. – Art. No. 10966. Doi 10.3390/ijms252010966
14. Khrizanforov M., Akhmadeev B., Milyukova P., Mustafina A., Zinnatullin A., Khannanov A., Nazmutdinov R., Brylev K., Shao Q., Zairov R. Can Re cluster complexes be an efficient catalyst for hydrogen evolution reaction? Insights from experiments and computations // Dalton Trans. – 2024. – Vol. 53. – P. 8417-8428. 10.1039/d4dt00144c
15. Khrizanforov M.N., Zagidullin A.A., Shekurov R.P., Akhmatkhanova F.F., Bezkishko I.A., Ermolaev V.V., Miluykov V.A. Inorganic and Organometallic Polymers as Energy Storage Materials and Enhancing Their Efficiency // Comments on Inorganic Chemistry – 2024. – Vol. 44, Is. 2. – P. 98-142. 10.1080/02603594.2023.2220295

16. Kuznetsova D.A., Vasilieva E.A., Kuznetsov D.M., Strobykina I.Yu., Amerhanova S.K., Voloshina A.D., Nizameev I.R., Kataev V.E., Zakharova L.Ya. Self-assembly and functional activity of amphiphilic conjugates of the diterpenoid isosteviol and triphenylphosphonium cation, with focusing on biotechnological potential // Colloids Surf., A. – 2024. – Vol. 697. – Art. No. 134505. 10.1016/j.colsurfa.2024.134505
17. Limarev I.P., Belova S.A., Vologzhanina A.V., Dorovatovskii P.V., Budnikova Y.H., Khrizanforova V.V., Sterligov G.K., Grigoriev S.A., Kottsov S.Yu., Teplonogova M.A., Ivanov V.K., Dedova A.G., Voloshin Y.Z. In a search of the single-atom electrocatalysts for hydrogen production: the first sulfur-free mono- and diphenanthrenyl-terminated iron and cobalt(II) clathrochelates versus their thioanalogs // Process Safety and Environmental Protect. – 2024. – Vol. 192. – P. 285–299. 10.1016/j.psep.2024.10.030
18. Luo Y., Yang J., Qin J., Miao K., Xiang D., Kuchkaev A., Yakhvarov D., Hu C., Kang X. Cobalt phthalocyanine promoted copper catalysts toward enhanced electro reduction of CO₂ to C₂: Synergistic catalysis or tandem catalysis? // J. Energy Chem. – 2024. – Vol. 92. - P. 499-507. 10.1016/j.jec.2024.01.008
19. Razuvaeva Y., Kashapov R., Ziganshina A., Kashapova N., Salnikov V., Zakharova L. A Supramolecular assembly of sulfobutyl ether-β-cyclodextrin and viologen calix[4]resorcinol as the master key to sustainable and eco-friendly catalyst for paraoxon hydrolysis // Carbohydrate Polymers. – 2024. – Vol. 334. – Art. No. 121984. 10.1016/j.carbpol.2024.121984

Q2

20. Belova S., Dudkin S., Belov A., Danshina A., Dorovatovskii P., Budnikova Y., Khrizanforova V., Bratskaya S., Balatskiy D., Voloshin Y. Synthesis, structure and spectroelectrochemistry of hybrid metal(IV)phthalocyaninato-capped 3d-metal pyrazoloximates as prospective precursors of stimuli-induced (responsive) single-molecule magnets, logic gates and qubits // New J. Chem. – 2024. – Vol. 48. – P. 17831-17848. 10.1039/D4NJ02908A
21. Bochkova O., Fedorenko S., Mikhailov A., Kostin G., Mikhailov M., Sokolov M., Elistratova J., Kholin K., Tarasov M., Budnikova Y., Sibgatullina G., Samigullin D., Nizameev I., Salnikov V., Yakovlev I., Rozhentsova D., Lyubina A., Amerhanova S., Voloshina A., Gerasimova T., Mustafina A. Dark cytotoxicity beyond photo-induced one of silica nanoparticles incorporated with RuII nitrosyl complexes and luminescent {Mo₆I₈} cluster units // Journal of Photochemistry&Photobiology. A: Chemistry. – 2024. – Vol. 446. – Art. No. 115147. 10.1016/j.jphotochem.2023.115147
22. Enikeeva K.R., Litvinov I.A., Islamov D.R., Kolesnikov I.E., Khrizanforova V.V., Budnikova Yu.H., Lyubina A.P., Voloshina A.D., Musina E.I., Karasik A.A. Manganese(II) complexes based on pyridyl- and quinolyl-containing dialkylphosphine oxides // Inorg. Chim. Acta. – 2024. – Vol. 571, №. 12. – Art. No. 122211. 10.1016/j.ica.2024.122211
23. Gerasimova D.P., Fayzullin R.R., Andreeva O.V., Lodochnikova O.A. Exploring two distinct crystallization pathways of pyridinoyl-hydrazone derivatives of isosteviol: true and pseudosymmetric homochiral motifs // Struct. Chem. – 2024. – Vol. 35, №. 3. – P. 1003–1019. 10.1007/s11224-024-02287-4
24. Gerasimova T.P., Zagidullin A.A., Nikolaeva A.N., Fayzullin R.R., Saitova A.M., Miluykov V.A., Grimme S., Katsyuba S.A. Structural flexibility of favipiravir and its structural analogues in solutions: experimental and computational insight // Org. Biomol. Chem. – 2024. - Vol 22, Is. 18. – P. 3668-3683. 10.1039/D4OB00404C

25. Gilmullina Z.R., Morozova J.E., Syakaev V.V., Voloshina A.D., Lyubina A.P., Sapunova A.S., Shalaeva Y.V., Ziganshina A.Yu., Antipin I.S. Supramolecular approach to obtain folate-functionalized nanoassociates // *Colloids Surf. A: Physicochem. Eng. Asp.* – 2024. – Vol. 702, Part 1. – Art. No. 135060. 10.1016/j.colsurfa.2024.135060
26. Håheim K.S., Deolka S., Fayzullin R.R., Lund B.A., Khaskin E., Sydnes M.O. 2-Pyridinyl/Quinolyl-phenylamino-quinoline Complexes With CF₃ and C₂F₅ Ligated Ni // *Eur. J. Inorg. Chem.* – 2024. – Vol. 27, №. 25. – Art. No. e202400207. 10.1002/ejic.202400207
27. Kartashov S.V., Fedonin A.P., Fayzullin R.R. Electronic Force Density Fields: Insights into Partial Bonds, Transition States, and Chemical Structure Evolution // *J. Phys. Chem. A* – 2024. – Vol. 128, №. 35. – P. 7471–7488. 10.1021/acs.jpca.4c03699
28. Kartashov S.V., Saifina A.F., Fayzullin R.R. Toward the Chemical Structure of Diborane: Electronic Force Density Fields, Effective Electronegativity, and Internuclear Turning Surface Properties // *J. Phys. Chem. A* – 2024. – Vol. 128, №. 34. – P. 7284–7297. DOI 10.1021/acs.jpca.4c03492
29. Katsyuba S.A., Grimme S. Structure and intermolecular interactions in ionic liquid 1-ethyl-3-methylimidazolium bromide and its aqueous solutions investigated by vibrational spectroscopy and quantum chemical computations // *J. Comp. Chem.* – 2024. – Vol. 45, Is. 32. – P. 2719–2726. 10.1002/jcc.27472
30. Moradi H., Govindarajan R., Nguyen H.G., Deolka S., Dinh H.M., Khaskin E., Fayzullin R.R., Vasylevskyi S., Khusnutdinova J.R. Synthesis and Aerobic Oxidation of Perfluoroalkyl d10 Metal Complexes Supported by 2,7-Dimethyl-1,8-Naphthyridine // *Eur. J. Inorg. Chem.* – 2024. – Vol. 27, №. 23. – Art. No. e202400257. 10.1002/ejic.202400257
31. Trofimova O.Y., Ershova I.V., Maleeva A.V., Cherkasov A.V., Khrizanforov M.N., Kovalenko K.A., Bogomyakov A.S., Piskunov A.V. Synthesis and Properties of Manganese (II) and Nickel (II) 1-D Coordination Polymers Based on 2,5-di-hydroxy-3,6-di-tert-butyl-para-quinone // *Journal of Inorganic and Organometallic Polymers and Materials.* – 2024. - P. 1-9. <https://doi.org/10.1007/s10904-024-03013-7>
32. Vasilieva E.A., Kuznetsov D.M., Kuznetsova D.A., Nizameev I.R., Voloshina A.D., Lyubina A.P., Zakharova L.Ya. Effect of strong and weak polyelectrolytes on the properties of cationic surfactant with triallyl ammonium head group: Self-assembly and biological assessment // *Materials Chemistry and Physics.* – 2024. – Vol. 320. – Art. No. 129441. <https://doi.org/10.1016/j.matchemphys.2024.129441>
33. Zagidullin A.A., Ganushevich Y.S., Korchagin D.V., Lonnecke P., Hey-Hawkins E., Miluykov V.A. Synthesis of P,P-bidentate caged phosphines via tungsten pentacarbonyl-promoted cycloaddition reactions of 1-alkyl-1,2-diphospholes // *New Journal of Chemistry.* – 2024. – Vol. 48. – P. 6848–6856. 10.1039/D3NJ05665A

Q3

34. Agarkov A.S., Mingazhetdinova D.O., Nefedova A.A., Gabitova E.R., Ovsyannikov A.S., Litvinov I.A., Islamov D.R., Dorovatovskii P.V., Solovieva S.E., Antipin I.S. Structure-forming non-covalent bonding of new 2-(4-carboxyphenylhydrazinylidene)[1,3]thiazolo[3,2-a]pyrimidines in the crystalline phase // *Russian Chemical Bulletin.* - 2024. - Vol. 73, No. 8. - P. 2350-2369. 10.1007/s11172-024-4359-7
35. Akhmetova V.R., Akhmadiev N.S., Gubaidullin A.T., Samigullina A.I., Glazyrin A.B., Sadykov R.A., Ishmetova D.V., Vakhitova Y.V. Novel binuclear copper(II) complexes with sulfanylpyrazole ligands: Synthesis, crystal structure, fungicidal, cytostatic and cytotoxic

activity // Metallomics – 2024. – Vol. 16, №. 6. – June 2024, mfae024. 10.1093/mtomcs/mfae024

36. Bezkishko I.A., Zagidullin A.A., Fayzullin R.R., Samorodnova A.P., Khrizanforov M.N., Zinnatullin A.L., Vagizov F.G., Miluykov V.A. New heteroleptic 3,4,5-tris(p-fluorophenyl)-1,2-diphosphaferrrocene: synthesis, electrochemical properties, and Mössbauer spectroscopy // Russian Chemical Bulletin. – 2024. – Vol. 73. – P. 2099–2104. 10.1007/s11172-024-4329-0
37. Budnikova Y.H., Dolengovski E.L., Tarasov M.V., Gryaznova T.V. Electrochemistry in organics: a powerful tool for “green” synthesis // J. Solid State Electrochem. – 2024. – Vol. 28, Is. 3-4. – P. 659–676. 10.1007/s10008-023-05507-9
38. Dovzhenko A.A., Betina A.A., Bulatova T.S., Bogachev N.A., Nikiforov V.G., Voloshina A.D., Zairov R.R., Mustafina A.R., Mereshchenko A.S., Akhmadeev B.S. Dual contrasting ability of NaGd0.7Eu0.3F4 nanocrystals tuned by their hydrophilic coating mode // Mendeleev Commun. – 2024. – Vol. 34. – P. 637–639. 10.1016/j.mencom.2024.09.004
39. Fazleeva R.R., Nasretdinova G.R., Evtyugin V.G., Gubaidullin A.T., Yanilkin V.V. Electrosynthesis of Catalytically Active Nanocomposites of Bimetallic PdCu and PdAu Nanoparticles with Fe(II), Al(III), Zn(II), Cu(I), and Ti(IV) Oxide–Hydroxides // Catal Lett. – 2024 – Vol. 154. – P. 2670–2686. 10.1007/s10562-023-04530-9
40. Gafurov Z.N., Mikhailov I.K., Kagilev A.A., Sakhapov I.F., Kantukov A.O., Morozov V.I., Kulikov D.A., Zueva E.M., Dobrynin A.B., Trifonov A.A., Yakhvarov D.G. Electrochemical behavior of a nickel(ii) complex with an N-heterocyclic carbene bisphenolate pincer ligand // Russ. Chem. Bull. - 2024. – Vol 73, Is. 11. – P. 3259–3266. <https://doi.org/10.1007/s11172-024-4441-1> [Гафуров З.Н., Михайлов И.К., Кагилев А.А., Сахапов И.Ф., Кантюков А.О., Морозов В.И., Куликов Д.А., Зуева Е.М., Добрынин А.Б., Трифонов А.А., Яхваров Д.Г. Электрохимическое поведение комплекса никеля(II) с NHC бисфенолятным пинцерным лигандом // Изв. АН. Сер. хим. – 2024. – Т. 73. – С. 3259–3266]
41. Gaysin A.I., Vakhonina T.A., Yakovleva E.O., Balakina M.Yu., Sinyashin O.G. Copolymers of 2-hydroxy-3-(N-methyl-N-phenylamino)propyl methacrylate with methyl methacrylate and their microstructure // Mendeleev Commun. – 2024. – Vol. 34. – P. 332–334. 10.1016/j.mencom.2024.04.007
42. Gilmullina Z.R., Syakaev V.V., Morozova J.E., Ziganshina A.Yu., Antipin I.S. The interaction of rhodamine B with sulfobetaine tetrapentylcalix[4]resorcinarene in the range of millimolar concentrations // J. Incl. Phenom. Macrocycl. Chem. – 2024. - Vol. 104. – P. 449–459. 10.1007/s10847-024-01246-0
43. Kadirov M.K., Nizameeva G.R., Shekurov R.P., Nizameev I.R., Galeeva E.I., Milyukov V.A., Budnikova Y.G. 3D Ni Redox-active metal-organic framework based on ferrocenyldiphosphinate and 4,4'-bipyridine ligands as an electrocatalyst for the oxygen reduction reaction in proton-exchange membrane fuel cells // Russ. Chem. Bull. – 2024. – Vol. 73, Is. 11. – P. 3252–3258. <https://doi.org/10.1007/s11172-024-4440-2> [Кадиров М.К., Низамеева Г.Р., Шекуров Р.П., Низамеев И.Р., Галеева Э.И., Милюков В.А., Будникова Ю.Г. 3D Ni-редокс-активный металлоганический каркас на основе ферроценилдифосфината и 4,4'-бипиридиновых лигандов в качестве электрокатализатора для реакции восстановления кислорода в топливных элементах с протонообменной мембраной // Известия академии наук, серия химическая. – 2024. – Т. 73, № 11. – С. 3252-3258.]

44. Kagilev A.A., Gafurov Z.N., Kantukov A.O., Mikhailov I.K., Yakhvarov D.G. The power of in situ spectroelectrochemistry for redox study of organometallic and coordination compounds // J. Solid State Electrochem. – 2024. – Vol. 28, №. 3. – P. 897-910. 10.1007/s10008-023-05765-7
45. Mikhailov I.K., Gafurov Z.N., Kagilev A.A., Sakhapov I.F., Morozov V.I., Ganeev G.R., Khayarov K.R., Kulikova V.A., Kirkina V.A., Gutsul E.I., Shubina E.S., Belkova N.V., Sinyashin O.G., Yakhvarov D.G. Electrocatalytic radical degradation of 2-aminoethanol by nickel, palladium and platinum complexes bearing non-innocent diarylamido/bis (phosphine) pincer ligand // Appl. Magn. Reson. – 2024. – Vol. 55. – P. 1-11. 10.1007/s00723-024-01710-7
46. Mikhaylov O.A., Gurskii M.E., Saigitbatalova E.S., Latypova L.Z., Gerasimova D.P., Lodochnikova O.A., Kurbangalieva A.R., Gridnev I.D. Allylboration of azole aldehydes: enantioselective synthesis of homoallylic azole alcohols and reconsideration of the mechanism of enantioselectivity // Russ. Chem. Bull. – 2024. – Vol. 73, Is. 10. – P. 2910–2920. <https://doi.org/10.1007/s11172-024-4408-2>
47. Nasretdinova G.R., Fazleeva R.R., Yanilkin A.V., Gubaiddullin A.T., Mansurova E.E., Ziganshina A.Y., Yanilkin V.V. Mediated Electrosynthesis of Nanocomposites of Gold Nanoparticles with Cyclobis (paraquat-p-phenylene) // ECS Journal of Solid State Science and Technology. – 2024. – Vol. 13, Is. 4. – Art. No. 041006. 10.1149/2162-8777/ad3d85
48. Nichugovskiy A.I., Eshtukova-Shcheglova E.A., Fayzullin R.R., Kuznetsov D.V., Burmistrov V.V., Novakov I.A. Selective C—H Deuterium Exchange in the Oxacamphanyl Moiety Linked to the Carbamide Group // Russ. Chem. Bull. – 2024. – Vol. 73, №. 7. – P. 1936–1943. 10.1007/s11172-024-4312-9
49. Nizamov I.S., Ahmedova G.R., Mavrov Ye.A., Nizamov I.D., Batyeva E.S. Proteinogenic amino acids in the synthesis of chiral salts of O,O-diterpenyl dithiophosphoric acids // Russian Chemical Bulletin. - 2024. – Vol. 73, Is. 3. - P. 606-615. Doi 10.1007/s11172-024-4170-5 [Низамов И.С., Ахмедова Г.Р., Мавров Е.А., Низамов И.Д., Батыева Э.С. Протеиногенные аминокислоты в синтезе хиальных солей О,О-дитерпенилдитиофосфорных кислот // Известия Академии наук. Серия химическая. – 2024. – Т.73. – № 3. – С.606–615].
50. Strelnik I.D., Kolesnikov I.E., Kalinichev A.A., Gerasimova T.P., Akhmadgaleev K.D., Dayanova I.R., Karasik A.A. Is dual emission of copper subgroup d¹⁰-metal complexes a necessary and sufficient condition for ratiometric luminescence thermometry? // Mend. Comm. – 2024. – Vol.34. – P. 457-471. <https://doi.org/10.1016/j.mencom.2024.06.001>
51. Volkov M.Yu., Sharipova A.R., Turanova O.A., Gubaiddullin A.T., Shaidullina A.F., Savostina L.I., Turanov A.N. Synthesis of 1-phenyl-3-(quinolin-8-ylamino)prop-2-en-1-one and analysis of its structure by X-ray crystallography, NMR, UV-Vis spectroscopy and DFT calculations // Chemistry Select. – 2024. – Vol. 9, №. 8. – Art. No. e202304190. 10.1002/slct.202304190
52. Zueva O.S., Zvereva E.R., Bakhtiyarova Y.V., Makarova A.O., Ageeva M.V., Ziganshina S.A., Valeeva F.G., Zakharova L.Ya. Associative behavior of long-chain n-alkanes in petroleum dispersed systems // Russ. Chem. Bull. – 2024. – Vol. 73. – P. 546–554. 10.1007/s11172-024-4164-3

Q4

53. Budnikova Yu.H. Electrochemical Carboxylation with CO₂ (A Review) // Russian Journal of Organic Chemistry. – 2024. - Vol. 60, No. 11. - P. 1–32. DOI: 10.1134/S1070428024110010

54. Frantsuzova L.V., Gerasimova D.P., Lodochnikova O.A. Asymmetrization of the Indacene Core in the Molecules of Monobromine-Containing BODIPY Derivatives: Experiment and Theory // Uchenye Zapiski Kazanskogo Universiteta Seriya Estestvennye Nauki. – 2024. – Vol. 166, №. 3. – P. 373–386. 10.26907/2542-064X.2024.3.373-386 [Французова Л.В., Герасимова Д.П., Лодочникова О.А. Асимметризация индаценового остова в молекулах монобромсодержащих производных BODIPY: эксперимент и теория // Ученые записки Казанского университета. Серия Естественные науки. – 2024. – Т. 166, Кн. 3. – С. 373–386.]
55. Gafurov Z.N., Mikhailov I.K., Kagilev A.A., Sakhapov I.F., Kantyukov A.O., Zueva E.M., Dobrynin A.B., Trifonov A.A., Yakhvarov D.G. Nickel(II) complex with the bis(phenolate) pincer N-heterocyclic carbene ligand: synthesis, structure, and properties // Russ. J. Coord. Chem. – 2024. – Vol. 50, Is. 10. – P. 769–777. Doi 10.1134/S1070328424601092
56. Samigullina A.I., Isaeva A.O., Komunarova D.K., Zakharychev D.V., Gubaidullin A.T. Polymorphism in N4-Ethyl-N1-(Diphenylphosphoryl) Acetyl-Thiosemicarbazide crystals // J. Struct. Chem. – 2024. – Vol. 65, №. 3. – P. 596–609. Doi 10.26902/JSC_id124401 [Самигуллина А.И., Исаева А.О., Комунарова Д.К., Бурангулова Р.Н., Гаврилова Е.Л., Захарычев Д.В., Губайдуллин А.Т. Полиморфизм в кристаллах N4-этил-N1-(дифенилfosфорил)ацетил-тиосемикарбазида // Журн. структ. хим. – 2024. – Т. 65, №. 3. – №. 124401.]
57. Subbotina S.N., Grebyonkina O.N., Gribkov P.V., Gerasimova D.P., Lodochnikova O.A., Gilfanov I.R., Nikitina L.E., Lezina O.M., Rubtsova S.A. Synthesis of New Sulfonic Acid Derivatives by the Reaction of S-(1S,2R,3S,5R)-2-Formyl-6,6-dimethylnorpinan-3-yl Thioacetate with Chlorine Dioxide // Russ. J. Org. Chem. – Vol. 60, №. 4. – P. 611–619. Doi 10.1134/S1070428024040079
58. Еникеева К.Р., Литвинов И.А., Любина А.П., Волошина А.Д., Мусина Э.И., Карасик А.А. Комплексы никеля(II) на основе пиридил- и хинолил-содержащих диалкилфосфиноксидов // Ж. стр. химии. – 2024. – т. 65. - №.12. – № 137940. Doi 10.26902/JSC_id137940

Scopus

59. Kononov A., Strekalova S., Kobeleva E., Savelyev G., Zlygostev A., Khvorova M., Morozov V., Babaeva O., Budnikova Y. C–C and C–N bond formation in electro-oxidation reactions of aromatic compounds // Curr. Res. Green Sust. Chem. – 2024 – Vol. 8 – Art. No. 100406. 10.1016/j.crgsc.2024.100406
60. Gabitova E.R., Agarkov A.S., Mailyan M., Nefedova A.A., Ovsyannikov A.S., Frantsuzova L.V., Lodochnikova O.A., Solovieva S.E., Antipin I.S. Synthesis of triazolyl derivatives based on thiazolo[3,2-a]pyrimidine propargyl ethers // Chemistry Proceedings. – 2024. – Vol. 16, Is. 1. – Art. No. 43. <https://doi.org/10.3390/ecsoc-28-20126>
61. Nefedova A.A., Tretyakova D.A., Mingazhetdinova D.O., Agarkov A.S., Ovsyannikov A.S., Litvinov I.A., Solovieva S.E., Antipin I.S. 1,3-Dipolar cycloaddition reactions of 2-aryl methylidenthiazolo[3,2-a]pyrimidines with azomethinylides, studying the supramolecular organization of products in the crystalline phase // Chemistry Proceedings. – 2024. – Vol. 16, Is. 1. – Art. No. 24. Doi <https://doi.org/10.3390/ecsoc-28-20098>

Госзадание (руководитель Синяшин О.Г.)

Q1

62. Bushmeleva K.N., Vyshtakalyuk A.B., Terenzhev D.A., Belov T.G., Nikitin E.N., Zobov V.V. Effect of Flavonols of Aronia melanocarpa Fruits on Morphofunctional State of Immunocompetent Organs of Rats under Cyclophosphamide-Induced Immunosuppression // Biomolecules, 2024. – Vol. 14, Is. 5 – Art. No 578. 10.3390/biom14050578
63. Davydova L., Menshova A., Shumatbaev G., Babaev V., Nikitin E. Phytochemical Study of Ethanol Extract of Gnaphalium uliginosum L. and Evaluation of Its Antimicrobial Activity // Antibiotics. – 2024. -Vol. 13, Is. 8. – P. 785. 10.3390/antibiotics13080785
64. Gaynanova G.A., Vasileva L.A., Karimova T.R., Romanova E.A., Lyubina A.P., Davletshina N.V., Davletshin R.R., Voloshina A.D., Zakharova L.Ya. Structure-activity correlation for new phosphorylated quaternary ammonium salts: To antimicrobial activity via self-organization // Colloids Surf., A. – 2024. – Vol. 700. – Art. 134820. 10.1016/j.colsurfa.2024.134820
65. Kushnazarova R., Mirgorodskaya A., Bushmeleva K., Vyshtakalyuk A., Lenina O., Petrov K., Zakharova L. Improving the Stability, Water Solubility, and Antioxidant Activity of α -Tocopherol by Encapsulating It into Niosomes Modified with Cationic Carbamate-Containing Surfactant // Langmuir. – 2024. – Vol. 40, Is. 43. – P. 22684–22692 10.1021/acs.langmuir.4c02507
66. Mamedov V.A., Galimullina V.V., Qu Zh.-W., Zhu H., Syakaev V.V., Shamsutdinova L.R., Sergeev M.A., Rizvanov Il.Kh., Gubaidullin A.T., Sinyashin O.G., Grimme S. AlCl₃-promoted intramolecular indolinone-quinolone rearrangement of spiro[indoline-3,2'-quinoxaline]-2,3'-diones: Easy Access to quinolino[3,4-b]quinoxalin-6-ones // J. Org. Chem. – 2024. – Vol. 89, Is. 2. – P. 898–917. 10.1021/acs.joc.3c01906
67. Mamedov V.A., Zhukova N.A., Gubaydullin A.T., Samigullina A.I., Beschastnova T.N., Perevalova D.S., Babaeva O.B., Rizvanov I.Kh., Sinyashin O.G. AcOH-catalyzed rearrangements of benzo[e][1,4]diazepin-2(and 3)-ones: easy access to 1,4-dihydroquinazolines and their condensed analogues // J. Org. Chem. – 2024. -Vol. 89. – P. 14577–14585. 10.1021/acs.joc.4c01721
68. Padnya P., Shiabiev I., Pysin D., Gerasimova T., Ranishenka B., Stanavaya A., Abashkin V., Shcharbin D., Shi X., Shen M., Nazarova A., Stoikov I. Non-Viral Systems Based on PAMAM-Calix-Dendrimers for Regulatory siRNA Delivery into Cancer Cells // Int. J. Mol. Sci. – 2024. – Vol.25. – Art. No. 12614. 10.3390/ijms252312614
69. Pashirova T.N., Mustakimova L.V., Nizameev I.R., Saitova A., Vandyukov A.E., Sapunova A.S., Kadirov M.K., Voloshina A.D., Sinyashin O.G., Mamedov V.A. Hybrid arginine-modified phospholipid nanotherapeutics based on multitarget quinoxalin-2-ones for cancer-cells delivery // J. Mol. Liq. – 2024. -Vol. 407. – Art. No. 125149. 10.1016/j.molliq.2024.125149
70. Petrova A.V., Ha T.T. Nguyen, Zueva I.V., Petrov K.A., Lobov A.N., Kazakova O.B. Conjugation of Triterpenic Acids with 3-Aminoquinuclidine Moiety: An Approach to Acetylcholinesterase Mixed or Uncompetitive Type Inhibitors // Molecules. – 2025. – Vol. 30. – Art. No. 95 <https://doi.org/10.3390/molecules30010095>
71. Selivanova N., Shulaeva M., Semenov V., Galyametdinov Y. New substituted 1,2,3-triazoles for ratiometric recognition to Fe³⁺ ions // Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. – 2024. - Vol. 305. – Art. No. 123558. 10.1016/j.saa.2023.123558

72. Shiabiev I., Pysin D., Kharlamova A., Zueva I., Petrov K., Bukharov M., Babaeva O., Mostovaya O., Padnya P., Stoikov I. Design of reversible cholinesterase inhibitors: Fine-tuning of enzymatic activity by PAMAM-calix-dendrimers // International Journal of Biological Macromolecules. – Vol. 287. – Art. No. 138503. <https://doi.org/10.1016/j.ijbiomac.2024.138503>
73. Smolobochkin A., Gazizov A., Appazov N., Sinyashin O., Burilov A. Progress in the Stereoselective Synthesis Methods of Pyrrolidine-Containing Drugs and Their Precursors // Int. J. Mol. Sci. – 2024. – Vol. 25. – Art. No. 1158. 10.3390/ijms252011158

Q2

74. Khabibulina L.R., Garifullin B.F., Aznagulov R.F., Andreeva O.V., Strobykina I.Yu., Belenok M.G., Voloshina A.D., Abramova D.F., Vyshtakalyuk A.B., Lyubina A.P., Amerhanova S.K., Sharipova R.R., Kataev V.E. Synthesis, cytotoxicity and antioxidant activity of new conjugates of N-acetyl-d-glucosamine with α -aminophosphonates // Carbohydrate Research. – Vol. 541. – Art. No 109146. 10.1016/j.carres.2024.109146
75. Kushnazarova R., Mirgorodskaya A., Bekrenev D., Kuznetsov D., Lyubina A., Voloshina A., Zakharova L. The Potential of Colloidal Systems Based on Carbamate-Containing Hexadecylpiperidinium Surfactants in Biomedical Applications // Colloids Interfaces. – 2024. – Vol. 8. – Art. No. 57. <https://doi.org/10.3390/colloids8050057>
76. Mamedov V.A., Zhukova N.A. Recent Advances in the Syntheses of Indoles with Partially Hydrogenated Benzene Ring (Tetrahydroindoles) // Synthesis. – 2024. – Vol. 56, Is. 08. – P. 1207-1243. 10.1055/s-0042-1751488

Q3

77. Andreeva O.V., Shulaeva M.M., Saifina L.F., Garifullin B.F., Belenok M.G., Zarubaev V.V., Slite A.V., Semenov V.E., Kataev V.E. Synthesis and antiviral activity of homodimers of 1,2,3-triazolyl nucleoside analogs // Russ. Chem. Bulletin. – 2024. – Vol. 73, No. 6. – P. 1789–1800. 10.1007/s11172-024-4296-5 [Андреева О.В., Шулаева М.М., Сайфина Л.Ф., Гарифуллин Б.Ф., Беленок М.Г., Зарубаев В.В., Слита А.В., Семенов В.Э., Катаев В.Е. Синтез и противовирусная активность гомодимеров 1,2,3-триазолильных аналогов нуклеозидов // Изв АН. Сер. хим. – 2024. – Т. 73, № 6. – С. 1789-1800]
78. Frantsuzova L.V., Gerasimova D.P., Metlushka K.E., Badeeva E.K., Nikitina K.A., Zinnatullin R.G., Ivshin K.A., Kataeva O.N., Lodochnikova O.A. Crystallization of chiral thiourea derivatives of 1-phenylethylamine: transfer of stable motifs from racemic to homochiral environment // Struct. Chem. – 2024. – Vol. 35. – P. 1963-1980. 10.1007/s11224-024-02343-z
79. Gomonov K.A., Pelipko V.V., Litvinov I.A., Baichurin R.I., Makarenko S.V. Nuclear Overhauser Effect in Determining the Configuration of 2-Nitrofuran-3-Carboxylates Hydrazones // Appl. Magn. Reson. – 2024. – Vol. 55. – P. 839–846. 10.1007/s00723-024-01677-5
80. Gorodnicheva N.V., Vasil'eva O.S., Ostroglyadov E.S., Baichurin R.I., Litvinov I.A., Makarenko S.V. 4-Aryl(indol-3-yl)-2-pyrrolidone-3(5)-carboxamides: synthesis and structure // Russ. Chem. Bull. – 2024. – Vol. 73, Is. 3. – P. 624–633. 10.1007/s11172-024-4172-3 [Городничева Н.В., Васильева О.С., Остроглядов Е.С., Байчурин Р.И., Литвинов И.А., Макаренко С.В. 4-Арил(индол-3-ил)-2-пирролидон-3(5)-карбоксамиды: синтез и строение // Изв. АН. Сер. хим. – 2024. – Т. 73, №. 3. – С. 624–633]

81. Il'in A.V., Anisimova K.S., Bogdanov A.V., Shulaeva M.P., Pozdeev O.K., Babaeva O.B., Voloshina A.D., Serov N.Yu., Bukharov M.S., Islamov D.R. α -Umpolung/michael addition/quaternization tandem reaction to provide α -imido- β -phosphonium propanoates with broad spectrum of biological activity // Chem. Biodiversity. – 2024. – Vol.21, No. 3. – Art. No. e202302022. 10.1002/cbdv.202302022
82. Kushnazarova R.A., Mirgorodskaya A.B., Bekrenev D.D., Lyubina A.P., Lenina O.A., Petrov K.A., Voloshina A.D., Zakharova L.Y. Supramolecular systems based on 2-hydroxyethylpiperidinium surfactants and Brij® 35: aggregation behavior, solubilization properties, and antimicrobial activity // Russ. Chem. Bull. – 2024. – Vol. 73, N 3. – P. 536–545. 10.1007/s11172-024-4163-4
83. Mamedov V.A., Mamedova V.L., Syakaev V.V., Kushatov T.A., Korshin D.E., Rizvanov Il.Kh., Gubaidlullin A.T. Synthesis and crystal structure of the new copper(II) coordination polymer with N1-(2-carboxyphenyl)-N2-(4-ethylcarboxyphenyl)oxalamide as ligand // Tetrahedron. – 2024. – Vol. 150. – Art. No. 133751. 10.1016/j.tet.2023.133751
84. Mamedov V.A., Mamedova V.L., Syakaev V.V., Kushatov T.A., Mamedova S.V., Korshin D.E., Samigullina A.I., Voronina J.K., Kobeleva E.S., Gubaidlullin A.T., Gavrilova E.L., Sinyashin O.G. Synthesis, enantiomeric composition, separation of (L)-menthyl 3-arylglycidates and their reactions with benzene-1,2-diamine // Tetrahedron. – 2024. – Art. No. 134244. 10.1016/j.tet.2024.134244
85. Mamedova V.L., Kushatov T.A., Tikhomirova N.A., Sinyashi O.G., Mamedov V.A. N-(2-Carboxyphenyl)oxalamides in the synthesis of the quinazoline central nervous system depressant methaqualone and fused biheterocyclic systems // Russ. Chem. Bull. – 2024. – Vol. 73, Is. 7. – P. 1996–2003. <https://doi.org/10.1007/s11172-024-4319-2>
86. Mironov V.F., Nemtarev A.V., Dimukhametov M.N., Baronova T.A., Gubaidlullin A.T., Litvinov I.A., Katsuma S.A., Burganov T.I. Synthesis and structures of 1-phosphaindene derivatives with five- and four-coordinate phosphorus atom // Russ. Chem. Bull. – 2024. – Vol. 73. – P. 2987–3011. <https://doi.org/10.1007/s11172-024-4416-2> [Миронов В.Ф., Немтарев А.В., Димухаметов М.Н., Баронова Т.А., Губайдуллин А.Т., Литвинов И.А., Кацюба С.А., Бурганов Т.И. Синтез и строение производных 1-фосфаиндена с пента- и тетракоординированным атомом фосфора // Изв. АН. Сер. хим. - 2024. - Т. 73, № 10. С. 2987-3011]
87. Mironova (Knyazeva) I.R., Romashov N.P., Syakaev V.V., Gerasimova D.P., Lodochnikova O.A., Burilov A.R. Synthesis and structural features of new calix[4]resorcinols with anthracene- or pyrene-ended isoxazole-containing organic fragments // Mendeleev Commun – 2024. – Vol. 34, Is. 3. – P. 392-395. 10.1016/j.mencom.2024.04.025
88. Nemtarev A.V., Ponomaryov D.V., Idrisova L.R., Anikina L.V., Brel V.K., Tsepaeva O.V., Mironov V.F. 5,6-Dihydropyran derivatives of nor-lupane: synthesis and properties // Russ. Chem. Bull. – 2024. - Vol. 73, No. 8. - P. 2261-2269. <https://doi.org/10.1007/s11172-024-4347-y> [Немтарев А.В., Пономарев Д.В., Идрисова Л.Р., Аникина Л.В., Брель В.К., Цепаева О.В., Миронов В.Ф. 5,6-Дигидропирановые производные нор-лупана: синтез и свойства // Изв. АН. Сер. Хим. - 2024. - № 8. - С. 2261-2269]
89. Shinkareva A.M., Nemtarev A.V., Chachkov D.V., Dobrynnin A.B., Litvinov I.A., Mironov V.F. Quaternary phosphonium salts based on quinopimamic acid // Mendeleev Commun. - 2024. - Vol. 34, No. 1. - P. 113-115. 10.1016/j.mencom.2024.01.034
90. Tatarinov D.A., Mikulenkova E.A., Terekhova N.V., Nemtarev A.V., Lyubina A.P., Voloshina A.D., Sapunova A.S., Dobrynnin A.B., Litvinov I.A., Mironov V.F. Synthesis and

- antimicrobial activity of alkyl[2-(5-chloro-2-hydroxyphenyl)-hex-1-en-1-yl]diphenylphosphonium salts // Russ. Chem. Bull. - 2024. - Vol. 73, No. 12. - P. 3699-3710 [Татаринов Д.А., Микуленкова Э.А., Терехова Н.В., Немтарев А.В., Любина А.П., Волошина А.Д., Сапунова А.С., Добрынин А.Б., Литвинов И.А., Миронов В.Ф. Дизайн, синтез и антимикробная активность алкил(2-(2-гидрокси-5-хлорфенил)гекс-1-ен-1-ил)дифенилfosфониевых солей // Изв АН. Сер. хим. - 2024. - Т. 73, № 12. - С. 3699-3710]
91. Trifonov A.V., Bagautdinova R.K., Kibardina L.K., Pudovik M.A., Lyubina A.P., Voloshina A.D., Gazizov A.S., Burilov A.R. New triazole-containing 7-azacoumarin-3-carboxamides: synthesis and biological properties // Mendeleev Commun. – 2024 – Vol. 34, No. 5. – P. 688-690. <https://doi.org/10.1016/j.mencom.2024.09.020>
92. Yakovishin L.A., Bukharov S.V., Babaev V.M., Nikitina E.V., Bulatova E.S. New Molecular Complexes of Glycyrrhetic Acid Monoammonium Salt (Glycyram) with Fluoroquinolone Antibiotics // Current Bioactive Compounds. – 2024. – Vol. 20, No. 2. – e310823220526. 10.2174/1573407219666230831091213
93. Zhukova N.A., Perevalova D.S., Syakaev V.V., Beschastnova T.N., Gubaydullin A.T., Sinyashin O.G., Mamedov V.A. Rearrangement of 3-(bromomethyl)quinoxalin-2(1H)-ones when exposed to 2-aminopyridines as a new method for the synthesis of 2-(imidazo[1,2-a]pyridin-2-yl)benzimidazoles // Russ. Chem. Bull. – 2024. – Vol. 73, Is. 6. – P. 1698-1708. 10.1007/s11172-024-4287-6
94. Иванова В.Ю., Чевела В.В., Шашин М.С., Семенов В.Э., Зайнулин Р.Р. Взаимодействие ксимедона с L-аскорбиновой кислотой в водном растворе. // Известия Академии наук. Серия химическая. – 2024. – Т. 73. - № 11. – С. 3381-3388.
95. Рыжкина И.С., Муртазина Л.И. Физико-химические закономерности разбавленных водных систем биологически активных веществ: взаимосвязь самоорганизации, свойств и биоэффектов // Изв. АН. Сер.хим. – 2024 – Т.73, № 12. – С. 3487-3522.

Q4

96. Adyukov I.S., Pelipko V.V., Litvinov I.A., Mamperi O.A., Baichurin R.I., Makarenko S.V. Synthesis of condensed furan structures based on 1-aryl-3-bromo-3-nitropropenones // Chemistry of Heterocyclic Compounds. – 2024 – Vol. 60, Is. 9/10. – P. 442–447.
97. Andreeva O.V., Saifina L.F., Shulaeva M.M., Belenok M.G., Garifullin B.F., Zarubaev V.V., Slita A.V., Khabibulina L.R., Aznagulov R.F., Semenov V.E., Kataev V.E. Synthesis and Antiviral Activity of Homodimers of 1,2,3-Triazolyl Nucleoside Analogues Based on Quinazoline-2,4-dione // Russ. J. Gen. Chem. – 2024. - Vol. 94, No. 5. - P. 1127–1138. 10.1134/S1070363224050116
98. Andreeva O.V., Saifina L.F., Shulaeva M.M., Belenok M.G., Zarubaev V.V., Slita A.V., Volobueva A.S., Semenov V.E., Kataev V.E. Synthesis and Antiviral Activity of New Dimeric 1,2,3-Triazolyl Pyrimidine Nucleoside Analogues // Russ. J. Org. Chem. – 2024. - Vol. 60, No. 4. - P. 576–587. 10.1134/S1070428024040031
99. Bogdanov A.V., Samorodov A.V., Valiullina Z.A., Akylbekov N.I., Voloshina A.D., Lyubina A.P., Amerkhanova S.K., Saitova A.M., Pashirova T.N., Tsivileva O.M. & Mironov V.F. Biologically Active Ammonium Isatin-3-acetylhydrazones Bearing Long-Chain Alkyl Substituent of Various Structures // Russ. J. Gen. Chem. - 2024. - Vol. 94, No. 3. - P. 539-552. 10.1134/S1070363224030071. [Богданов А.В., Самородов А.В., Валиуллина З.А., Акылбеков Н.И., Волошина А.Д., Любина А.П., Амерханова С.К., Сайтова А.М., Паширова Т.Н., Цивилева О.М., Миронов В.Ф. Биологически активные аммониевые

изатин-3-ацилгидразоны, содержащие длинноцепной алкильный заместитель различного строения. // Ж. общ. хим. - 2024. - Т. 94, Вып. 3. - С. 539-552]

100. Bogdanov A.V., Voloshina A.D., Il'in A.V., Kadomtseva M.E., Pashirova T.N., Shaihutdinova Z.M., Mironov V.F. Novel Acylhydrazones Based on 1-Decylisatins and Girard Reagent T Possessing Antimicrobial Activity // Russian Journal of General Chemistry. - 2024. - Vol. 94, No. 11 - P. 3099–3103. <https://doi.org/10.1134/S1070363224110331>
101. Bogdanov A.V., Voloshina A.D., Khamatgalimov A.R., Rakhmatullin R.R., Samorodov A.V., Valiullina Z.A., Mironov V.F. Relationship Between the Volume of Benzyl Substituent in Isatin-3-acylhydrazones and Their Antimicrobial Activity // Russ. J. Gen. Chem. – 2024. - Vol. 94, No. 4. - P. 878–883. [10.1134/S1070363224040157](https://doi.org/10.1134/S1070363224040157)
102. Bukharov S.V., Rakhmatullin R.R., Zamaletdinova D.M., Bogdanov A.V., Voloshina A.D. Synthesis and antitumour activity of hybrid compounds based on 4-aminophenylarsonic acid and spatially hindered phenols // Doklady biochemistry and biophysics. – 2024. - Vol. 519. - P. 534–539. [10.1134/S1607672924701163](https://doi.org/10.1134/S1607672924701163)
103. Dudkina E.V., Vasilieva E.A., Ulyanova V.V., Zakharova, L.Y., Ilinskaya O.N. Surfactants as a Means of Delivering a Reporter Genetic Construct Based on Binase Suicide Gene to Tumor Cells // Russian Journal of Bioorganic Chemistry – 2024. – Vol. 50, Is. 1. – P. 45–55. [10.1134/S1068162024010072](https://doi.org/10.1134/S1068162024010072)
104. Gomonov K.A., Pelipko V.V., Litvinov I.A., Baichurin R.I., Makarenko S.V. 4,5-Dimethylfuro[3,4-d]pyridazin-1(2H)-one // Molbank – 2024. – №. 1. – M1776. [10.3390/M1776](https://doi.org/10.3390/M1776)
105. Gomonov K.A., Pelipko V.V., Litvinov I.A., Baichurin R.I., Makarenko S.V. Synthesis and structure of new substituted furan-3-carboxylate hydrazones // Chem. Heterocycl. Compd. – 2024. – Vol. 60, №. 3/4. – P. 133–137. [10.1007/s10593-024-03308-0](https://doi.org/10.1007/s10593-024-03308-0)
106. Kalinin V., Rasperetikhina E., Bukharov M., Shibaeva K., Islamov D., Babaeva O., Stoikov I. Synthesis and selective Cu(II) complexation of lower rim substituted thiocalixarenes containing pyrazole fragments // Chimica Techno Acta. – 2024. - Vol. 11, Is. 4. – Art. No. 202411418. [10.15826/chimtech.2024.11.4.18](https://doi.org/10.15826/chimtech.2024.11.4.18)
107. Kurenkov A.V., Dayanova I.R., Rychkova I.A., Naumova O.E., Islamov D.R., Strelnik I.D., Karasik A.A. Reaction of 6-methylpyridin-2-ylphosphine with benzaldehyde and p-toluidine: a pathway to acyclic aminomethylphosphine oxides with carbon-substituted P-CH-N fragments // Rus. J. Gen. Chem. – 2024. – Vol. 94, Is. 9. – P. 2264-2270. [10.1134/S1070363224090068](https://doi.org/10.1134/S1070363224090068)
108. Litvinov I.A., Bukharov S.V., Tagasheva R.G., Bogdanov A.V., Zamaletdinova D.M. Molecular and crystal structures of ethyl-2-amino-2-bis(3,5-di-tert-butyl-4-hydroxybenzyl)ethanoate. hydrogen bonds in the crystals of sterically hindered phenols // J. Struct. Chem. – 2024. – V. 65. – №. 2. – Art. 121969. [10.26902/JSC_id121969](https://doi.org/10.26902/JSC_id121969) [Литвинов И.А., Бухаров С.В., Тагашева Р.Г., Богданов А.В., Замалетдинова Д.М. Молекулярная и кристаллическая структура этил-2-амино-2-бис(3,5-ди-трет-бутил-4-гидроксибензил)этаноата. Водородные связи в кристаллах пространственно-затрудненных фенолов // Журн. структ. хим. – 2024. – Т. 65, №. 2. – №. 121969].
109. Minzanova S.T., Chekunkov E.V., Voloshina A.D., Mironova L.G., Khabibullina A.V., Milyukov V.A., Mironov V.F. Anti-tumor activity of cobalt-containing complexes of potassium and sodium polygalacturonates and pharmacological compositions based on them // Doklady Chemistry. – 2024. - Vol. 515. Doi [10.31857/S2686953524020044](https://doi.org/10.31857/S2686953524020044). [Минзанова С.Т., Чекунков Е.В., Волошина А.Д., Миронова Л.Г., Хабибуллина А.В., Милюков В.А., Миронов В.Ф. Противоопухолевая активность кобальтсодержащих комплексов

- полигалактуронатов калия и натрия и фармакологической композиции на их основе // Докл. РАН. Химия, науки о материалах. – 2024. - Т. 515, № 1. - С. 36–44]
110. Rizbayeva T.S., Smolobochkin A.V., Gazizov A.S., Syakaev V.V., Burilov A.R., Pudovik M.A. One-Pot Synthesis of 2,3-Disubstituted Quinolines Based on Acetals and Anilines // Russian Journal of General Chemistry. - 2024. – Vol. .94, № 6. - P.1247–1250. 10.1134/S1070363224060045.
111. Sadykova Yu.M., Smolobochkin A.V., Turmanov R.A., Zalaltdinova A.V., Gazizov A.S., Pudovik M.A., Burilov A.R. Synthesis of new hydrazones based on 1-(1-Tosylpyrrolidin-2-yl)propan-2-one // Russ. J. of General Chem. – 2024 – Vol. 94, No. 7. – P. 1625-1629. 10.1134/S107036322407003X
112. Shakirov A.M., Gibadullina E.M., Islamov D.R., Lyubina A.P., Voloshina A.D., Burilov A.R. α -Aminophosphonates Containing Sterically Hindered Phenolic And N-Heterocyclic Fragments As Potential Antitumor Agents // Russian Journal Of General Chem. – 2024. – Vol. 94. – P. 488-496. <https://doi.org/10.1134/S1070363224020233>
113. Trishin Yu. G., Vakhrusheva E. D., Anisimova N. A., Derkacheva O. Y., Baichurin R. I., Rizvanov I. Kh. Synthesis of Betulin and Allobetulin Derivatives Containing Hetarylthioacetoxyl Groups // Russian Journal of General Chemistry – 2024. – Vol. 94, No. 10. - P. 2623–2631. 10.1134/S1070363224100074
114. Галимова М.Ф., Кондрашова С.А., Латыпов Ш.К., Добрынин А.Б., Колесников И.Е., Любина А.П., Волошина А.Д., Мусина Э.И., Карасик А.А. Комплексы дибромида платины с 10-(арил)феноксарсинами: синтез, структура, люминесцентные и биологические свойства // Координационная химия. – 2024. – Т. 50. - № 11.
115. Казимова К.Ш., Ахмадуллина Ф.Ю., Акулов А.Н., Щербакова Ю.В., Никитин Е.Н. Скрининг параметров извлечения биологически активных веществ из цветов бархатцев распространенных (*Tagetes patula*) и оценка антиоксидантной активности их водных экстрактов // Химия растительного сырья. - 2024. - №3. - С. 250–258. 10.14258/jcprm.20240313383
116. Казимова К.Ш., Растворин Е.К., Ахмадуллина Ф.Ю., Щербакова Ю.В., Шуматбаев Г.Г., Закиров Р.К. Влияние способа консервирования на антиоксидантный потенциал экстрактов на основе плодов аронии черноплодной (*Aronia melanocarpa*) // Siberian Journal of Life Sciences and Agriculture. - 2024. – Т. 16, №5. 10.12731/2658-6649-2024-16-5-914
117. Фаттахова А.Н., Евтушин В.Г., Бушмелева К.Н. Биохимическая характеристика индуцированного фармакологического паралича задних конечностей у мышей стока CD-1 // Ученые записки Казанского университета. Серия Естественные науки. – 2024, – Т. 166, вып. 2. – С. 283-296. <https://doi.org/10.26907/2542-064X.2024.2.283-296>

Список ВАК

118. Беляев Г.П., Выштакалюк А.Б., Парфенов А.А., Галяметдинова И.В., Семенов В.Э., Зобов В.В. Гепатопротекторный эффект Ксимедона и его конъюгата с L-аскорбиновой кислотой при отравлении мышей полулетальной дозой парацетамола // Biomedical Chemistry: Research and Methods. – 2024. – Vol. 7, No 4. - e00249. 10.18097/bmcrm00249
119. Гаяутдинова Г.Г., Мишина Н.Н., Ямалова Г.Р., Халикова К.Ф., Маланьев А.В., Выштакалюк А.Б. Скрининг веществ, обладающих антитоксическим действием при отравлении глифосатом // Вестник Курской государственной сельскохозяйственной академии, 2024. - №5, С. 60-64.

120. Роденко Н.А., Васильева Т.И., Богданов А.В., Глущенков В.А. Исследование механизма повышения биологической активности бензилпенициллина натриевой соли после обработки импульсным магнитным полем высокой напряженности // Радиационная биология. Радиоэкология. - 2024. - Т. 64, №5. - С. 519–528. 10.31857/S0869803124050074
121. Старцева В.А., Никитина Д.Е., Лодочникова О.А., Бодров А.В., Гильфанов И.Р., Колесникова Е.М., Федюнина И.В., Шипина О.Т., Александров А.А., Ахвердиев Р.Ф., Герасимов А.В., Сарбазян Е.А., Бойчук А.С., Пастеляк Д.М. Гетероциклические тиопроизводные камфена с фрагментом фенилтетразола // Вестник технологического университета. - 2024. - Т.27, №4. – С. 11-16. 10.55421/1998-7072_2024_27_4_11

Белый список

122. Миндубаев А.З., Бабынин Э.В., Бабаев В.М., Тутучкина В.В., Минзанова С.Т., Миронова Л.Г., Караева Ю.В. Штамм *Aspergillus niger* AM1 как агент биодеградации нефти и нефтепродуктов // Микология и фитопатология. – 2024. – Т. 58, № 1. – с. 27–35. Doi 10.31857/S0026364824010037 [Mindubaev A.Z., Babynin E.V., Babaev V.M., Tutuchkina V.V., Minzanova S.T., Mironova L.G., Karaeva J.V. *Aspergillus niger* strain AM1 as a biodegradation agent for crude oil and crude oil products // Biology Bulletin Reviews. - 2024. - Vol. 14, No 1. – P. S53–S59. 10.1134/S207908642460084X]
123. Залалтдинова А.В., Аппазов Н.О., Акылбеков Н.И., Турманов Р.А., Сыздықбаев М.И., Садыкова Ю.М., Газизов А.С., Бурилов А.Р. Синтез новых каркасных фосфонатов взаимодействием 2-этоксивинилдихорфорфосфоната с 4-этилрезорцином // Химический журнал Казахстана. – 2024. – Т.84. – N 3. – С.124-133. 10.51580/2024-3.2710-1185.38
124. Савельева А.В., Абрамова Д.Ф., Выштакалюк А.Б., Зобов В.В., Нифантьева Л.Н., Сысоева М.А. Влияние биомассы меланинов *Inonotus Obliquus* на показатели антиоксидантной защиты мышей на фоне воздействия фенилгидразина // В сборнике: Актуальные вопросы инноваций и современные научные открытия. Сборник научных статей по материалам V Международной научно-практической конференции. – Уфа: Изд. НИЦ Вестник науки, 2024. - С. 49-57.

Госзадание (куратор Якубов М.Р.)

Q1

125. Mironov N., Tazeeva E., Milordov D., Yakubova S., Yakubov M. Use of near-to-microporous silica gel for selective separation of petroleum vanadyl porphyrins from asphaltene clusters // Energy Fuels. – 2024. – Vol. 3, Is. 18. – P. 17412–17424. 10.1021/acs.energyfuels.4c03180

Q2

126. Borisova Y.Y., Minzagirova A.M., Galikhanov M.F., Zaripov R.B., Spiridonova R.R., Yakubov M.R., Borisov D.N. Potential of industrial symbiosis of petroleum residues and recycled polyethylene // Petroleum Science and Technology. – 2024. – P. 1-18. 10.1080/10916466.2024.2353279
127. Galikhanov M.F., Minzagirova A.M., Guliakova A.A., Borisova Y.Y., Borisov D.N., Yakubov M.R. Electret Composite Materials Based on Polyethylene and Petroleum Asphaltenes // IEEE Transactions on Dielectrics and Electrical Insulation. - 2024. 10.1109/tdei.2024.3434774

Q3

128. Mikhailova A.N., Kayukova G.P. Effect of Hydrothermal Treatment and Prolonged Extraction on the Generation of Hydrocarbons from High-Carbon Low-Permeability Rocks from Domanik Deposits // Petroleum Chemistry. - 2024. - Is. 5. - P. 557–569. 10.1134/S0965544124030149
129. Nasirova Z.R., Kayukova G.P., Shmeleva E.I., Islamova G.G., Mikhailova A.N., Vakhin A.V. Specific Features of Realizing the Generation Potential of Carbonate and Carbonate–Siliceous Domanik Rocks by Treatment with Sub- and Supercritical Water // Petroleum Chemistry. - 2024. - Vol. 64, Is. 3. - P. 366–384. 10.1134/S0965544124030095
130. Okhotnikova E.S., Ganeeva Y.M., Barskaya E.E., Fazylzyanova G.R., Yusupova T.N., Morozov, V.I., Ivanov D.S. Molecular Basis of Asphaltene Stability // Petroleum Chemistry. - 2024. - Vol. 64, Is. 5. - P. 570–579. 10.1134/S0965544124030010
131. Minzagirova A.M., Borisova Yu.Yu., Gubaidullin A.T., Galikhanov M.F., Saifina A.F., Yakubov M.R., Borisov D.N. Composites based on polyurethane and modified petroleum asphaltenes // J. Sib. Fed. Univ. Chem. – 2024. – Vol. 17, Is. 3. – P. 395–406.

РИНЦ

132. Гуляков Е.Г., Хозин В.Г., Боровских И.В., Ганеева Ю.М. Влияние суперпластификаторов на размолоспособность портландцемента при получении цементов низкой водопотребности // Известия Казанского государственного архитектурно-строительного университета. - 2024. – Т. 68, № 2. - С. 77-91. 10.48612/NewsKSUAE/68.7

Госзадание (руководитель Низамеев И.Р.)

Q1

133. Faizullin B.A., Khazieva A.R., Kholin K.V., Voloshina A.D., Lyubina A.P., Sapunova A.S., Sibgatullina G.V., Samigullin D.V., Paderina A.V., Grachova E.V., Petrov K.A., Mustafina A.R. pH-Responsive composite nanomaterial engineered from silica nanoparticles and luminescent mitochondrion-targeted Pt (II) complex as anticancer agent // Journal of Molecular Liquids. – 2024. – Vol. 399. – Art. No. 124381. 10.1016/j.molliq.2024.124381

Q4

134. Nizameeva G.R., Lebedeva E.M., Kuznetsova V.V., Mansurov R.N., Nizameev I.R. NiO-PEDOT:PSS composite material as an active element of a conductometric sensor for nitrogen dioxide // High Energy Chemistry. – 2024. – Vol. 58. – P. S360-S365. 10.1134/S0018143924701170
135. Enders P.Ya., Lebedeva E.M., Nizameeva G.R., Gainullin R.R., Minzanova S.T., Galeeva E.I., Mezhevich Zh.V., Nefedev E.S., Kholin K.V., Kadirov M.K. Morphological and Structural Aspects of Electrochemical Catalysis of Oxygen Reduction with the Cobalt Complex of Sodium Pectate // Russian Journal of Electrochemistry. - 2024. - V.60, No.12. - P.969–973. 10.1134/S102319352470054X [Эндерс, П.Я. Морфологические и структурные аспекты электрохимического катализа реакции восстановления кислорода кобальтовым комплексом пектата натрия / П.Я. Эндерс, Э.М. Лебедева, Г.Р. Низамеева, Р.Р. Гайнуллин, С.Т. Минзанова, Э.И. Галеева, Ж.В. Межевич, Е.С. Нефедьев, К.В. Холин, М.К. Кадиров // Электрохимия. – 2024. – Т.60. – №12.]
136. Lebedeva E.M., Nizameeva G.R., Nizameev I.R., Kuznetsova V.V., Kadirov M.K. Electrocatalytic activity of sodium copper pectates in oxygen reduction reaction in fuel cells // Chimica Techno Acta. – 2025. – Vol. 12, Is.1. – Art. No. 12110. 10.15826/chimtech.2025.12.1.10

РИНЦ

137. Дробышев С.В., Шайхаттаров Т.М., Низамеев И.Р. Электронный блок управления и измерения для кондуктометрического сенсора на диоксид азота в атмосфере // Радиотехника. – 2024. – Т. 88. – С. 111-120. 10.18127/j00338486-202401-10
138. Холин К.В., Султанов Т.П., Эндерс П.Я., Соловьев Е.А., Галеева Э.И., Минзанова С.Т. Особенности формирования никельсодержащих наночастиц на стеклоуглеродных электродах путем электроосаждения из растворов комплексов пектата натрия // Радиотехника. – 2024. – Т. 88. – № 1. – С. 77–85. 10.18127/j00338486-202401-07

Госзадание (руководитель Загидуллин А.А.)

Q1

139. Charushin V.N., Verbitskiy E.V., Chupakhin O.N., Vorobyeva D.V., Gribanov P.S., Osipov S.N., Ivanov A.V., Martynovskaya S.V., Sagitova E.F., Dyachenko V.D., Dyachenko I.V., Krivokolysko S.G., Dotsenko V.V., Aksenov A.V., Aksenov D.A., Aksenov N.A., Larin A.A., Fershtat L.L., Muzalevskiy V.M., Nenajdenko V.G., Gulevskaya A.V., Pozharskii A.F., Filatova E.A., Belyaeva K.V., Trofimov B.A., Balova I.A., Danilkina N.A., Govdi A.I., Tikhomirov A.S., Shchekotikhin A.E., Novikov M.S., Rostovskii N.V., Khlebnikov A.F., Klimochkin Yu.N., Leonova M.V., Tkachenko I.M., Mamedov V.A., Mamedova V.L., Zhukova N.A., Semenov V.E., Sinyashin O.G., Borshchev O.V., Luponosov Yu.N., Ponomarenko S.A., Fisyuk A.S., Kostyuchenko A.S., Ilkin V.G., Beryozkina T.V., Bakulev V.A., Gazizov A.S., Zagidullin A.A., Karasik A.A., Kukushkin M.E., Beloglazkina E.K., Golantsov N.E., Festa A.A., Voskresensky L.G., Moshkin V.S., Buev E.M., Sosnovskikh V.Ya., Mironova I.A., Postnikov P.S., Zhdankin V.V., Yusubov, M.S. Yaremenko I.A., Vil' V.A., Krylov I.B., Terent'ev A.O., Gorbunova Yu.G., Martynov A.G., Tsividze A.Yu., Stuzhin P.A., Ivanova S.S., Koifman O.I., Burov O.N., Kletskii M.E., Kurbatov S.V., Yarovaya O.I., Volcho K.P., Salakhutdinov N.F., Panova M.A., Burgart Ya.V., Saloutin V.I., Situdikova A.R., Shchegrevina E.S., Fedorov A.Yu. The chemistry of heterocycles in the 21st century // Russ. Chem. Rev. – 2024. – Vol. 93, Is. 7. – Art. No. RCR5125. Doi 10.59761/RCR5125

Q4

140. Zhiltsova E.P., Vasileva L.A., Zagidullin A.A., Zakharova L.Ya. Solubilization of Artemisinin in Solutions of Cationic Surfactants // Russian Journal of General Chemistry. – 2024. – Vol. 94, N 7. – P. 1672-1681. Doi <https://doi.org/10.1134/S1070363224070090>

Другие источники финансирования

Q1

141. Aetov A.U., Mazanov S.V., Usmanov R.A., Gabitova A.R., Gumerov F.M., Shapovalov Yu.A., Zaripov Z.I., Musin R.Z. Oxidation of Phenol and Acetone in a Model Water Flow in Continuous Mode at High Pressure // Eurasian Chem.-Technol. J. – 2024. – Vol.26. – P. 21–27. 10.18321/ectj1562
142. Akhmadeev B.S., Nizameev I.R., Kholin K.V., Voloshina A.D., Gerasimova T.P., Gubaidullin A.T., Romashchenko A.V., Zavjalov E.L., Kashnik I.V., Brylev K.A., Mustafina A.R. Specificity of hexarhenium cluster anions for synthesis of Mn²⁺-based nanoparticles with lamellar shape and pH-induced leaching for specific organ selectivity in MRI contrasting // Journal of Colloid and Interface Science. – 2024. – Vol. 659. – P. 1052-1062. <https://doi.org/10.1016/j.jcis.2023.12.182>
143. Andreeva O.V., Voloshina A.D., Lyubina A.P., Garifullin B.F., Sapunova A.S., Amerhanova S.K., Strobykina I.Yu., Belenok M.G., Babaeva O.B., Saifina L.F., Semenov V.E., Kataev V.E. Acetylenyl substituted nucleic bases and their triphenylphosphonium (TPP) conjugates. Unexpected surge in cytotoxicity // Bioorg. Chem. - 2024. - Vol. 142. - Art. No. 106959. 10.1016/j.bioorg.2023.106959
144. Ayub H., Ahmad I., Jabeen U., Aamir M., Ullah A., Mushtaq A., Behlil F., Javaid B., Syed A., Elgorban A.M., Bahkali A.H., Zairov R. Enhanced anticancer and biological activities of environmentally friendly Ni/Cu-ZnO solid solution nanoparticles // Heliyon. – 2024. – Vol. 10, № 23. - e39912. 10.1016/j.heliyon.2024.e39912
145. Bogdanov I., Mironova D., Sultanova E., Burilov V., Solovieva S.E., Antipin I.S. New asymmetric gemini triazole surfactants with a polar tri-ethyleneglycol fragment: synthesis and physical-chemical properties // Molecules. – 2024. – Vol. 29, Is. 22. – Art. No. 5420. <https://doi.org/10.3390/molecules29225420>
146. Daminova A.G., Leksin I.Y., Khabibrakhmanova V.R., Gurjanov O.P., Galeeva E.I., Trifonova T.V., Khamatgalimov A.R., Beckett R.P., Minibayeva F.V. The roles of the anthraquinone parietin in the tolerance to desiccation of the lichen Xanthoria parietina: physiology and anatomy of the pale and bright-orange thalli // Int. J. Mol. Sci. – 2024. – Vol. 25. – Art. No. 7067. 10.3390/ijms25137067
147. Dhamudia K., Mahato S., Singh R., Kumar A., Panda S., Sahu M., Hasnain S. M., Zairov R. Heat propagation phenomenon of compressed natural gas air premixed laminar flame impinging on a flat surface // Case Studies in Thermal Engineering. - 2024. - Vol. 64. – Art. No. 105571. 10.1016/j.csite.2024.105571
148. Dovzhenko A.P., Yapryntseva O.A., Sinyashin K.O., Doolotkeldieva T., Zairov R.R. Recent progress in the development of encapsulated fertilizers for time-controlled release // Heliyon. - 2024. - Vol. 10, № 15. – Art. No. e34895. 10.1016/j.heliyon.2024.e34895
149. Dymerska A.G., Wenelska K., Vagizov F., Zinnatullin A.L., Zairov R., Mijowska E. Green reaction engineering towards an iron-based nanostructured hybrid as an electrocatalyst for oxygen evolution reaction // J. Mater. Chem. A. 2024. Vol. 12, № 26. P. 16007–16021. 10.1039/D4TA01193G
150. Fetin P.A., Zorin I.M., Shaihutdinova Z.M., Masson P. Pashirova T.N. Polystyrene-Poly(acrylic acid) Block Copolymers for Encapsulation of Butyrylcholinesterase into Injectable Nanoreactors // Biomolecules. – 2024. – Vol. 14. – Art. No. 1555. <https://doi.org/10.3390/biom14121555>

151. Fominykh O.D., Sharipova A.V., Balakina M.Yu. Atomistic modeling of electric field poling of PMMA-based polymer material with guest quinoxaline chromophores // J. Molec. Liq. – 2024. – Vol. 407. – Art. No. 125224. 10.1016/j.molliq.2024.125224
152. Giri J., Saravanan R, Zairov R., Hasnain S.M.M. Nano-fuels of Al₂O₃/SiO₂/MgO/tamarind seed oil biodiesel for CI engines: An evaluation of combustion consumption and emission performance // International Journal of Thermofluids. - 2024. - Vol. 23. – Art. 100815. 10.1016/j.ijft.2024.100815
153. Govindarajan R., Fayzullin R.R., Deolka S., Khaskin E., Vasylevskyi S., Vardhanapu P.K., Pal S., Khusnutdinova J.R. Facile Access to Cationic Methylstannylenes and Silylenes Stabilized by E–Pt Bonding and Their Methyl Group Transfer Reactivity // Chem. Eur. J. – 2024. – V. 30. – №. 8. – e202303789. 10.1002/chem.202303789
154. Kashapov R., Razuvayeva Y., Ziganshina A., Salnikov V., Zakharova L. A supramolecular catalyst based on sodium alginate and viologen calix[4]resorcinol for the room temperature hydrolysis of paraoxon // Int. J. Biol. Macromol. – 2024. – V. 257. – Art. No. 128578. 10.1016/j.ijbiomac.2023.128578
155. Katsyuba S.A., Burganov T.I. Computationally assisted vibrational spectroscopy of nucleic acid bases. 2. Thymine // Spectrochim. Acta A. – 2024. – Vol. 309. – Art. No. 123832. 10.1016/j.saa.2023.123832
156. Khachatrian A.A., Mukhametzyanov T.A., Salikhov R.Z., Klimova A.E., Gafurov Z.N., Kantyukov A.O., Yakhvarov D.G., Garifullin B.F., Mironova D.A., Voloshina A.D., Solomonov B.N. New ionic liquids based on 5-fluorouracil: Tuning of BSA binding and cytotoxicity // Int. J. Biol. Macromol. – 2024. – Vol. 257. – Art. No. 128642. 10.1016/j.ijbiomac.2023.128642
157. Khariushin I.V., Bulach V., Solovieva S.E., Antipin I.S., Ovsyannikov A.S., Ferlay S. Thiocalix[4]arene macrocycles as versatile building blocks for the rational design of high-nuclearity metallic clusters, metallamacrocycles, porous coordination cages and containers // Coordination Chemistry Reviews. – 2024. - Vol. 513 – Art. No. 215846. 10.1016/j.ccr.2024.215846
158. Khariushin I.V., Bulach V., Ward J.S., Rissanen K., Solovieva S.E., Antipin I.S., Ovsyannikov A.S., Ferlay S. Synthesis, crystal structure, and gas sorption studies of two neutral octahedral {M^{II}₂₄}-cages built from sulfonylthiocalix[4]arene tetranuclear clusters and triazine linkers // CrystEngComm. – 2024. – Vol. 26. – P. 6789-6795. <https://doi.org/10.1039/D4CE00964A>
159. Khrizanforov M., Nailieva F.F., Ivshin K., Zagidullin A., Samorodnova A.P., Shekurov R.P., Milyukova P., Laskin A., Novikov A.S., Milyukov V. Ugi's amine based coordination polymers as a synergistic catalysts for electrocatalytic reduction of carbon dioxide // Dalton Trans. – 2024. – Vol. 53. – P. 17351-17360. 10.1039/D4DT01181C
160. Kondrashova S.A., Latypov S.K. DFT Approach for Predicting ¹³C NMR Shifts of Atoms Directly Coordinated to Pt: Scopes and Limitations // Molecules. – 2024. – Vol. 29. – Art. No. 6052. <https://doi.org/10.3390/molecules29246052>
161. Kononov A.I., Strekalova S.O., Morozov V.I., Boyko K.V., Timashev V.I., Medvedev M.G., Babaeva O.B., Kobeleva E.V., Ivshin K.A., Babaev V.M., Budnikova Y.H. Replacing sulfuric acid with water in electrochemical metal-free mild aromatic C–H amidation: a direct route to N –phenylamides // Org. Chem. Front. – 2024. 10.1039/D4QO01296H
162. Kumar S., Premkumar M., Giri J., Hasnain S.M.M., Zairov R., Wu J., Huang Z. Bismuth-based nanoparticles and nanocomposites: synthesis and applications // RSC Adv. - 2024. - Vol. 14, № 53. - P. 39523–39542. 10.1039/D4RA05637J

163. Kushnazarova R.A., Mirgorodskaya A.B., Vasilieva E.A., Lenina O.A., Petrov K.A., Zakharova L.Ya. New piperidinium surfactants with carbamate fragments as effective adjuvants in insecticide compositions based on imidacloprid // Pest Manage. Sci. – 2024. – Vol. 693. – Is. 11. – P. 5965–5973. 10.1002/ps.8329
164. Kuznetsov D.M., Kuznetsova D.A., Valeeva F.G., Nizameev I.R., Zakharova L.Ya. Micellar nanocontainers based on biamphiphilic surfactants containing morpholinium cation and deoxycholate anion for hydrophobic drugs // J. Mol. Liq. – 2024. – Vol. 414. – Art. No. 126288. 10.1016/j.molliq.2024.126288
165. Kuznetsova E.A., Rysaeva R.R., Smolobochkin A.V., Gazizov A.S., Gerasimova T.P., Gerasimova D.P., Lodochnikova O.A., Morozov V.I., Vatsadze S.Z., Burilov A.R., Pudovik M.A. Hypervalent Sulfur Derivatives as Sulfonylating Reagents: Visible-Light-Mediated Direct Thiolation of Activated C(Sp²)–H Bonds with Dihalosulfuranes // Organic Letters. - 2024. - Vol. 26, № 20. - P. 4323–4328. 10.1021/acs.orglett.4c01305
166. Makarova V.V., Vlasova A.V., Antonov S.V., Borisova Y.Y., Borisov D.N., Yakubov M.R. Effect of Surfactants on the Structure, Thermal Conductivity, and Rheology of Composites Based on Paraffin and Petroleum Asphaltenes // Energy & Fuels. - 2024. Doi 10.1021/acs.energyfuels.4c00632
167. Manjunath Gowda M R, Kiran Gowda M R, R S Vijaykumar, C Durga Prasad, Ashok R Banagar, C. Solaimuthu, S M Mozammil Hasnain, Zairov R. Experimental Investigation on CO₂ Emission Characteristics of Modified SI-Engine with Direct Fuel Injection (DFI) Technique // ES Energy Environ. – 2024. – doi 10.30919/esee1223
168. Mijowska E., Dymerska A., Leniec G., Maślana K., Aleksandrzak M., Zairov R., Nazmutdinov R., Chen X. Ni-based compounds in multiwalled graphitic shell for electrocatalytic oxygen evolution reactions // Adv Compos Hybrid Mater. - 2024. - Vol. 7, № 5. – Art. No. 172. 10.1007/s42114-024-00981-9
169. Muhammad Irfan Hussain, Muhammad Umar Farooq, Zairov R.R., Moussab Harb. Single-atom catalysts for electrocatalytic applications: Synthetic strategies, in-situ characterization, and future challenges // Applied Materials Today. – 2024. - Vol. 36. – Art. No. 102037. 10.1016/j.apmt.2023.102037
170. Murashkina A.V., Bogdanov A.V., Voloshina A.D., Lyubina A.P., Samorodov A.V., Mitrofanov A.Y., Beletskaya I.P., Smolyarchuk E.A., Zavadich K.A., Valiullina Z.A., Nazmieva K.A., Korunas V.I., Krylova I.D. Base-Catalyzed Reaction of Isatins and (3-Hydroxyprop-1-yn-1-yl)phosphonates as a Tool for the Synthesis of Spiro-1,3-dioxolane Oxindoles with Anticancer and Anti-Platelet Properties // Molecules. – 2024. – Vol. 29. – Art. No. 4764. <https://doi.org/10.3390/molecules29194764>
171. Neganova M., Aleksandrova Y., Voloshina A., Lyubina A., Appazov N., Yespenbetova Sh., Valiullina Z., Samorodov A., Bukharov S., Gibadullina E., Tapalova A., Bogdanov A. Biological Activity Evaluation of Phenolic Isatin-3-Hydrazone Containing a Quaternary Ammonium Center of Various Structures // Int. J. Mol. Sci. – 2024. – Vol. 25. – Art. No. 11130. <https://doi.org/10.3390/ijms252011130>
172. Pashirova T., Salah-Tazdaït R., Tazdaït D., Masson P. Applications of Microbial Organophosphate-Degrading Enzymes to Detoxification of Organophosphorous Compounds for Medical Countermeasures against Poisoning and Environmental Remediation // Int. J. Mol. Sci. – 2024. – Vol. 25, Is. 14. – Art. No. 7822. 10.3390/ijms25147822
173. Pashirova T., Shaihutdinova Z., Tatarinov D., Titova A., Malanyeva A., Vasileva O., Gabdurakhmanov K., Dudnikov S., Schopfer L.M., Lockridge O., Masson P. Pharmacokinetics

and fate of free and encapsulated IRD800CW-labelled human BChE intravenously administered in mice // Int. J. Biol. Macromol. – 2024. – Vol. 282. - Part 6. – Art. No. 137305. <https://doi.org/10.1016/j.ijbiomac.2024.137305>

174. Pashirova T.N., Nemtarev A.V., Buzyurova D., Shajhutdinova Z., Dimukhametov M.N., Babaev V.M., Voloshina A.D., Mironov V.F. Terpenes-modified lipid nanosystems for temozolomide, im-proving cytotoxicity against glioblastoma human cancer cells in vitro // Nanomaterials. - 2024. - Vol. 14. - Art. No. 55. 10.3390/nano14010055
175. Rahman M.A. Sanjay Kumar Gupta, Akylbekov N., Zhapparbergenov R., S M Mozammil Hasnain, Zairov R. Comprehensive Overview of Heat Management Methods for Enhancing Photovoltaic Thermal Systems // iScience. – 2024. – Art. 110950. 10.1016/j.isci.2024.110950
176. Rahman Md Atiqur, Zairov R., Akylbekov N., Zhapparbergenov R., Hasnain Syed Mohammad Mozammil. Pioneering heat transfer enhancements in latent thermal energy storage: Passive and active strategies unveiled // Heliyon. – 2024. - Vol. 10, № 19. – Art. e37981. 10.1016/j.heliyon.2024.e37981
177. Salin A.V., Shabanov A.A., Khayarov Kh.R., Islamov D.R., Voloshina A.D., Amerhanova S.K. and Lyubina A.P. Phosphine-Catalyzed Synthesis and Cytotoxic Evaluation of Michael Adducts of the Sesquiterpene Lactone Argabin // ChemMedChem. – 2024. - e202400045. 10.1002/cmdc.202400045
178. Sautina N.V., Gnezdilov O.I., Gubaiddullin A.T., Galyametdinov Yu.G. Study of self-organization and structural phase transitions in water /AOT / isopropyl myristate biocompatible system // J. Mol. Liq. – 2024. – Vol. 407. – Art. No. 125193. 10.1016/j.molliq.2024.125193
179. Sibgatullina G., Ramazanova I., Salnikov V., Stepanov A., Voloshina A., Sapunova A., Mustafina A., Petrov K., Samigullin D., Increased endocytosis rate and enhanced lysosomal pathway of silica-coated superparamagnetic nanoparticles into M-HeLa cells compared with cultured primary motor neurons // Histochem. Cell Biol. – 2024. – Vol. 161. – P. 507-519. 10.1007/s00418-024-02283-z
180. Smolobochkin A., Niyazova D., Gazizov A., Syzdykbayev M., Voloshina A., Amerhanova S., Lyubina A., Neganova M., Aleksandrova Y., Babaeva O., Voronina J., Appazov N., Sinyashin O., Alabugin I., Burilov A., Pudovik M. Discovery of Di(Het)Arylmethane and Dibenzoanthene Derivatives as Potential Anticancer Agents // International Journal of Molecular Sciences. - 2024. – Vol. 25, № 12. – P. 6724. 10.3390/ijms25126724
181. Strelnikova I.V., Shutilov I.D., Ovsyannikov A.S., Islamov D.R., Pyataev A.V., Gerasimova T.P., Khamatgalimov A.R., Khrizanforov M.N., Gubaiddullin A.T., Burilov V.A., Solovieva S.E., Antipin I.S. Elucidating the role of the o-methoxy group in the lower rim appended salicylideneamine substituents of calix[4]arene ligands on the molecular and electronic structures of dinuclear Fe(III)-based diamond-core complexes // CrystEngComm. – 2024. – Vol. 26. – P. 3973-3988. 10.1039/D4CE00347K
182. Sukacheva O.A., Neganova M.E., Aleksandrova Y., Burcher J.T., Chugunova E., Fan R., Tse E., Sethi G., Bishayee A., Liu J. Signaling Controversy and Future Therapeutical Perspectives of Targeting Sphingolipid Network in Cancer Immune Editing and Resistance to Tumor Necrosis Factor- α Immunotherapy // Cell Commun. Signal. – 2024. – Vol. 22. – Art. 251. 10.1186/s12964-024-01626-6.
183. Suwaid M.A., Al-Mishaal O.F., Al-Muntaser A.A., Varfolomeev M.A., Djimasbe R., Reyimkulyyeva S.U., Abdulla M.A., Al-Qaili A.M., Mikhailova A.N., Zinnatullin A.L., Emelianov D.A., Zairov R.R., Vagizov F.G. Water-Soluble Catalysts Based on Nickel and Iron

- for In Situ Catalytic Upgrading of Boca de Jaruco High-Sulfur Extra-Heavy Crude Oil // Energy Fuels. – 2024. – Vol. 38, № 2. – P.1098–1110. 10.1021/acs.energyfuels.3c03868
184. Varfolomeev S.D., Švedas V., Efremenko E.N., Egorov A.M., Khrenova M.G., Tishkov V.I. et al. Biocatalysis: modern problems and applications // Russ. Chem. Rev. – 2024. – Vol. 93, Is. 12. - RCR5144. <https://doi.org/10.59761/RCR5144>
185. Vasileva L.A., Gaynanova G.A., Romanova E.A., Petrov K.A., Feng Ch., Zakharova L.Ya., Sinyashin O.G. Supramolecular approach to the design of nanocarriers for antidiabetic drugs: focusing on targeted patient-friendly therapy // Russian Chemical Reviews. – 2024. – Vol. 93, Is. 11. RCR5150. <https://doi.org/10.59761/RCR5150>
186. Vasilieva E.A., Valeeva F.G., Babkin R.A., Amerhanova S.K., Voloshina A.D., Nizameev I.R., Zakharov V.M., Valeeva D.N., Zueva I.V., Petrov K.A., Zakharova L.Ya. Design of glycol chitosan-decorated liposomes for the intranasal delivery of hydrophilic substances: physicochemical and in vitro/in vivo biological assessment // Colloids and Surfaces A: Physicochemical and Engineering Aspects. – 2024 – Vol. 693. – Art. 134073. 10.1016/j.colsurfa.2024.134073
187. Zairov R., Syed A., Tawfiq M., Al-Hussainy A., Mansoor A.S., Radi U. K., Idan A. H., Bahair H., AL-Shwaiman H. A., Subramaniam M., Wong L.S., Janani B.J., Sinyashin O.G. Preparation of amorphous Nd/Dy-based metal organic framework@MXene for solar driven selective photocatalytic and serving as sensor for fluorescence quenching detection, and biological activity // Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. - 2024. – Art. No. 125406. 10.1016/j.saa.2024.125406
188. Zairov R.R., Kornev T.A., Akhmadeev B.S., Dovzhenko A.P., Vasilyev V.A., Kholin K.V., Nizameeva G.R., Mukhametzyanov T.A., Lyubina A.P., Voloshina A.D., Mustafina A.R. Expanding Mn²⁺ loading capacity of BSA via mild non-thermal denaturing and cross-linking as a tool to maximize the relaxivity of water protons // International Journal of Biological Macromolecules. – 2024. – Vol. 266, Is. 2. – Art. No. 131338. 10.1016/j.ijbiomac.2024.131338
189. Zalaltdinova A.V., Sadykova Y.M., Gazizov A.S., Smailov A.K., Syakaev V.V., Gerasimova D.P., Chugunova E.A., Akylbekov N.I., Zhapparbergenov R.U., Appazov N.O., Burilov A.R., Pudovik M.A., Alabugin I.V., Sinyashin O.G. Superelectrophilic activation of phosphacoumarins towards weak nucleophiles via Brønsted acid assisted Brønsted acid catalysis // Intern. J. Mol. Sci. – 2024 – Vol.25. – Art. No. 6327. 10.3390/ijms25126327
190. Zlotin S.G., Egorova K.S., Ananikov V.P., Akulov A.A., Varaksin M.V., Chupakhin O.N., Charushin V.N., Bryliakov K.P., Averin A.D., Beletskaya I.P., Dolengovski E.L., Budnikova Yu.H., Sinyashin O.G., Gafurov Z.N., Kantukov A.O., Yakhvarov D.G., Aksenov A.V., Elinson M.N., Nenajdenko, Chibiryakov A.M., Nesterov N.S., Kozlova E.A., Martyanov O.N., Balova I.A., Sorokoumov V.N., Guk D.A., Beloglazkina E.K., Lemenovskii D.A., Chukicheva I.Yu., Frolova L.L., Izmest'ev E.S., Dvornikova I.A., Popov A.V., Kutchin A.V., Borisova D.M., Kalinina A.A., Muzaferov A.M., Kuchurov I.V., Maximov A.L., Zolotukhina A.V. The green chemistry paradigm in modern organic synthesis // Russ. Chem. Rev. – 2023. – Vol. 92, Is. 12. – Art. RCR5104. Doi 10.59761/RCR5104

Q2

191. Amirov R.R., Ziyatdinova A.B., Mustafina A.O., Akhmadeev B.S., Zhuravleva Y.I., Gubaidullin A.T., Mustafina A.R., Nizovtsev A.V., Zairov R.R. Novel sight into Mn(II) complexation with some tri- and tetridentate ligands in aqueous solutions. Specific aspects of

- interacting with β -aminotricarballylic acid // Inorganica Chimica Acta. – 2024. – Vol. 568. – P. 122095. 10.1016/j.ica.2024.122095
192. Arkhipova D.M., Samigullina A.I., Minyaev M.E., Lyubina A.P., Voloshina A.D./, Ermolaev V.V. Synthesis, crystal structure, and biological activity of menthol-based chiral quaternary phosphonium salts (CQPSs) // Struct. Chem. – 2024. - Vol 35. – P. 75–88. <https://doi.org/10.1007/s11224-023-02259-0>
193. Deng R., Huang Z., Wu J., Feng L.Z., Hu W., Tang Y.F., Tan H., Zhang H., Zairov R., Pan Z. Biogas to chemicals: a review of the state-of-the-art conversion processes // Biomass Conv. Bioref. - 2024. 10.1007/s13399-024-06343-1
194. Dolengovski E.L., Fayzullin R.R., Kholin K.V., Voloshina A.D., Lyubina A.P., Sapunova A.S., Shamsutdinova L.R., Rizvanov I.Kh., Sinyashin O.G., Budnikova Y.H. Stable Cyclometallated Palladium Complexes of Arylamides: Synthesis, Redox and Anticancer Activities // Eur. J. Inorg. Chem. – 2024. - e202400426. 10.1002/ejic.202400426
195. Dovzhenko A.P., Vasilyev V.A., Kornev T.A., Chinarev A.A., Nizovtsev A.V., Zairov R.R., Sinyashin O.G., Mustafina A.R. Bimodal Magneto-Luminescent Response of Lanthanide Metallopolymers for Distinguishing of Phosphates in Aqueous Solutions // Macromol. Chem. Phys. – 2024. – Art. No. 2400253. 10.1002/macp.202400253
196. Dymerska A.G., Wenelska K., Zinnatullin A.L., Zairov R., Mijowska E. Electroactive heterojunctions of iron-based compounds in oxygen evolution reaction—Insight into synergy and mechanism // Electrochimica Acta. – 2024. – Vol. 482. – Art. No. 144005. 10.1016/j.electacta.2024.144005
197. Faizullin B.A., Spiridonova Y.S., Kholin K.V., Khrizanforov M.N., Litvinov I.A., Voloshina A.D., Parfenov A.A., Musina E.I., Strelnik I.D., Karasik A.A., Mustafina A.R. Structure-dependent aggregation and ROS-generation in aqueous media of new cationic copper(I) complexes based on 1,5,3,7-diazadiphosphacyclooctanes // Inorganica Chimica Acta. – 2025. – Vol. 574. – Art. No. 122382. 10.1016/j.ica.2024.122382
198. Farooq M., Dovzhenko A., Zairov R., Abyzbekova G., Harb M., Arkook B., Akylbekov N., Tapalova A., Makhlof M., Insights into the Engineered Gold Nanoparticles Based Remedy for Supplementation Therapy of Ovarian Carcinoma // ACS Omega. – 2024. 10.1021/acsomega.4c04134
199. Gaifutdinov A.M., Andrianova K.A., Amirova L.M., Milyukov V.A., Zagidullin A.A., Amirov R.R. Low-flammability carbon fiber reinforced composites based on low-viscosity phosphorus-containing epoxy binders for transfer molding methods // Materials Today Communications. – 2024. – Vol. 40. – Art. 109340. <https://doi.org/10.1016/j.mtcomm.2024.109340>
200. Galimova M.F., Burdina K.A., Dobrynnin A.B., Lyubina A.P., Voloshina A.D., Musina E.I., Karasik A.A. Silver(I) complexes based on cyclic arsine ligands: Synthesis, structure and bioactivity // Inorganica Chimica Acta. – 2024. – Vol. 563. – Art. No. 121896. 10.1016/j.ica.2023.121896
201. Khrizanforova V.V., Fayzullin R.R., Kartashov S.V., Morozov V.I., Khrizanforov M.N., Gerasimova T.P., Budnikova Y.H. Carbon Dioxide Electrocatalysis and Formic Acid Oxidation by Formal Nickel(I) Complexes of Di-isopropylphenyl Bis-iminoacenaphthene // Chem. Eur. J. – 2024. - e202400168. 10.1002/chem.202400168
202. Khrizanforova V.V., Fayzullin R.R., Morozov V.I., Budnikova Y.H. Proton-assisted seven-electron acceptor properties of di-iso-propylphenyl-bis-iminoacenaphthene // Dalton Trans. – 2024. – Vol. 53. – P. 11659–11663. 10.1039/D4DT01039F

203. Kushnazarova R.A., Mirgorodskaya A.B., Kuznetsov D.M., Vasilieva E.A., Amerhanova S.K., Voloshina A.D., Zakharova L.Ya. Piperidinium surfactants functionalized with carbamate fragment: Aggregation, antimicrobial activity and cytotoxicity // Biochim. Biophys. Acta, Gen. Subj. – 2024. – Vol. 1868, Is. 3. – P. 130562. 10.1016/j.bbagen.2024.130562.
204. Md Atiqur Rahman, Syed Mohammad Mozammil Hasnain, Shatrudhan Pandey, Tapalova A., Akylbekov N., Zairov R. Review on Nano fluids: Preparation, Properties, Stability, and Thermal Performance Augmentation in Heat Transfer Applications // ACS Omega. – 2024. 10.1021/acsomega.4c03279
205. Moradi H., Govindarajan R., Nguyen H.G., Deolka S., Dinh H.M., Khaskin E., Fayzullin R.R., Vasylevskyi S., Khusnutdinova J.R. Synthesis and Aerobic Oxidation of Perfluoroalkyl d 10 Metal Complexes Supported by 2,7-Dimethyl-1,8-Naphthyridine // Eur. J. Inorg. Chem. – 2024. – Vol. 27, №. 23. – Art. No. e202400257. 10.1002/ejic.202400257
206. Ocherednyuk E., Sultanova E.D., Makarov E.G., Fedoseeva A.A., Khannanov A.A., Evtugyn VG., Solovieva S.E., Burilov V.A., Antipin I.S. Epichlorohydrin-based CuAAC dendrimers with a calix[4]arene core and polar hydroxyl/oxyethyl terminal groups: synthesis, aggregation and use in catalysis // New Journal of Chemistry. – 2024. – Vol. 48, No. 31. – P. 13999–1401210. 1039/D4NJ02942A
207. Ovsyannikov A.S., Strelnikova I.V., Samigullina A.I., Islamov D.R., Cherosov M.A., Batulin R.G., Kiamov A.G., Gubaidullin A.T., Dorovatovskii P.V., Solovieva S.E., Antipin I.S. Influence of neutral auxiliary ligands on crystal structure and magnetic behaviour of new $[Mn^{II}_2Mn^{III}_2]$ clusters supported by p-adamantylcalix[4]arene// New J. Chem. – 2024. – Vol. 48. – P. 203-215. 10.1039/D3NJ04809H
208. Razuvayeva Yu., Kashapov R., Ziganshina A., SalnikovV., Sapunova A., Voloshina A., Zakharova L. Drug Binding and Delivery with Supramolecular System Based on Sodium Carboxymethylcellulose and Viologen Calix[4]resorcinol // Chemistry – An Asian Journal. – 2024. – e202400709. 10.1002/asia.202400709
209. Shustikov A.A., Kalinin A.A., Shmelev A.G., Gaysin A.I., Vakhonina T.A., Khamatgalimov A.R., Balakina M.Yu. Nonlinear optical activity of polymer materials doped with quinoxaline-based chromophores containing TBDPSO groups // Materials Letters. – 2024. – Vol. 358. – Art. No. 135809. <https://doi.org/10.1016/j.matlet.2023.135809>
210. Sultanova E.D., Fedoseeva A.A., Fatykhova A.M., Mironova D.A., Ziganshina S.A., Ziganshin M.A., Evtugyn V.G., Burilov V.A. Solovieva S.E., Antipin I.S. Multi-functional imidazolium dendrimers based on thiocalix[4]arenes: self-assembly, catalysis and DNA binding // Soft Matter. – 2024. – Vol. 20. – P. 7072-7082. 10.1039/D4SM00764F
211. Syakaev V. V., Masliy A.N., Podyachev, S.N., Sudakova S.N., Shvedova A.E., Lentini, I.I., Gorbunov, A.N., Vatsouro I.M., Lapaev D. V., Mambetova, G. Sh., Kovalev V. V., Kuznetsov A.M., Mustafina A.R. NMR and DFT-study of new luminescent Eu³⁺ complexes based on calix[4]arenes with 1,2,3-triazole and 1,3-diketone groups // Inorganica Chim. Acta – 2024. – Vol. 561 – P.121848. <https://doi.org/10.1016/j.ica.2023.121848>
212. Tatarinov D.A., Mikulenkova E.A., Litvinov I.A., Khayarov K., Mironov V.F. Divergent synthesis of oxaphospholenes and phosphacoumarines via the reaction of 2-alkenylphenols with PCl₃ or PCl₅ // Org. Biomol. Chem. – 2024. – Vol. 22, No. 8. – P. 1629-1633. 10.1039/d3ob01718d
213. Tosun D.C., Açıkkalp E., Altuntas O., Palmero-Marrero A.I., Zairov R., Borge-Diez D. Exergetic, economic and exergy-based sustainability analysis of a power generation system

- with CO₂ capture and methanol production // Energy Reports. – 2024. – Vol. 12. – P. 1094–1108. 10.1016/j.egyr.2024.07.001
214. Wei Hu, Zeai Huang, Jundao Wu, Hao Tan, Yifan Tang, Zilong Feng, Rui Deng, Hongwei Zhang, Rustem Zairov and Zhicheng Pan. Catalyst Development for Biogas Dry Reforming: A Review of Recent Progress // Catalysts. - 2024. – Vol. 14, № 8. – Art. Mo. 494. 10.3390/catal14080494
215. Zoughaib M., Pashirova T.N., Nikolaeva V., Kamalov M., Nakhmetova F., Salakhieva D.V., Abdullin T.I. Anticancer and Chemosensitizing Effects of Menadione-Containing Peptide-Targeted Solid Lipid Nanoparticles // J. Pharm. Sci. – 2024. – Vol. 113, Is. 8. – P. 2258–2267. 10.1016/j.xphs.2024.03.009

Q3

216. Andreeva O.V., Belenok M.G., Strobykina I.Yu., Saifina L.F., Lyubina A.P., Sapunova A.S., Voloshina A.D., Garifullin B.F., Semenov V.E., Kataev V.E. Synthesis and cytotoxicity against M-HeLa, HuTu-80, and MCF-7 human cancer cells of the first nucleoterpeneoids of the isosteviol diterpenoid platform // Chem. Nat. Comp. – 2024. – Vol. 60, No. 6. - P. 2061-2065. 10.1007/s10600-024-04520-2.
217. Artemenko A., Sultanova E., Mironova D., Akhatova A., Bondareva E., Islamov D., Usachev K., Solovieva S., Burilov V., Antipin I. Amphiphilic Fluorescein Triazoles: Synthesis and Visible-Light Catalysis in Water // Organics. – 2024. – Vol. 5. – P. 346–360. 10.3390/org5030018
218. Bogdanov A.V., Bukharov S.V., Yusupov A.N., Litvinov I.A., Voloshina A.D., Tagasheva R.G., Kolpakova E.V. Ammonium acylhydrazones based on 4,6-di-tert-butyl-2,3-dihydroxybenzaldehyde: synthesis, possibilities of functionalization, and evaluation of biological activity // Russ. Chem. Bull. – 2024. – Vol. 73, №. 3. – P. 704–713. 10.1007/s11172-024-4181-2 [Богданов А.В., Бухаров С.В., Юсупов А.Н., Литвинов И.А., Волошина А.Д., Тагашева Р.Г., Колпакова Е.В. Аммониум ацилгидразоны на основе 4,6-ди-трет-бутил2,3-дигидроксибензальдегида: синтез, возможности функционализации и повышения биологической активности // Изв. АН. Сер. хим. – 2024. – Т. 73, №. 3. – С. 704–713]
219. Churbanova, E.S., Gabdrakhmanova, F.B., Kleshnina, S.R., Burilov V.A., Solovieva, S.E., Antipin, I.S. New Azo Derivatives of Thiocalix[4]arene: Synthesis, Structure and Complexation with Dyes // Macroheterocycles. – 2024. – Vol. 17, Is. 3. – P. 255–263. 10.6060/mhc245818g
220. Dayanova I.R., Sabirova Z.R., Lyubina A.P., Voloshina A.D., Shmelev A.G., Musina E.I., Strelnik I.D. & Karasik A.A. Luminescent, low-toxic P,P-bischelate copper(i) complexes with N-alkylaryl-substituted 1,5-diaza-3,7-diphosphacyclooctanes // Rus. Chem. Bull. – 2024. – Vol. 73. – P. 1811-1817 10.1007/s11172-024-4298-3
221. Furer V., Vandyukov A., Nomerotskaya E., Mukhtarova M., Kovalev V., Kovalenko V. Study of the 3-(3,3-Dimethylbutanoyl)-4-hydroxy-6-neopentyl-2H-pyran-2-one by IR, Raman spectroscopy, and DFT // Molecular Modeling Connect. – 2024. – Vol. 11. – Art. ID. 2024.0002. <https://doi.org/10.69709/MolModC.2024.118203>
222. Furer V.L., Vandyukov A.E., Ovsyannikov A.S. Strelnikova I.V., Agarkov A.S., Solovieva S.E., Antipin I.S. Study of the structure of 1,3-disubstituted thiocalix[4]arenes with phthalimide and imine groups using vibrational and NMR spectroscopy // Struct Chem. – 2024. – Vol. 35. – P. 1479–1491. 10.1007/s11224-024-02298-1
223. Gaifullina E.T., Shmelev A.G., Gataullina R.M., Zarafutdinova Z.R., Kornev T.A., Nizameeva G.R., Zairov R.R., Ziyatdinova A.B., Amirov R.R. Sulfur quantum dots stabilized

by myristyl trimethylammonium bromide // Optical Materials. - 2024. - Vol. 157. – Art. No. 116269. 10.1016/j.optmat.2024.116269

224. Galkina I.V., Andriyashin V.V., Ziyatdinova G.K., Romanov S.R., Egorova S.N., Vorob'eva N.V., Shulaeva M.P., Litvinov I.A., Abzhalelov B.B., Kuzhamberdieva S.Zh., Bakhtiyarova Yu.V. Crystal structures and antimicrobial and antioxidant activities of phosphonium compounds containing 3,5-di-tert-butyl-4-hydroxybenzyl fragment // Russ. Chem. Bull. – 2024. – Vol. 73, №. 3. – P. 695–703. 10.1007/s11172-024-4180-3 [Галкина И.В., Андрияшин В.В., Зиятдинова Г.К., Романов С.Р., Егорова С.Н., Воробьева Н.В., Шулаева М.П., Литвинов И.А., Абжалелов Б.Б., Кужамбердиева С.Ж., Бахтиярова Ю.В. Кристаллическая структура, антимикробная и антиоксидантная активность фосфониевых соединений, содержащих 3,5-ди-трет-бутил-4-гидроксибензильный фрагмент // Изв. АН. Сер. хим. – 2024. – Т. 73, №. 3. – С. 695–703.]
225. Gerasimova D.P., Veremeichik Ya.V., Lodochnikova O.A. Dynamic stereochemistry at work: Configurational lability of nitrogen and sulfur atoms within a sulfonamide moiety as a cause of forming supramolecular diastereomers in crystals // Struct. Chem. – 2024. – Vol. 35, №. 4. – P. 1163–1172. 10.1007/s11224-023-02260-7
226. Gorbachuk E., Grell T., Hey-Hawkins E., Yakhvarov D. Intermolecular Insertion Reactions into the P–P Bond of Oligophosphorus Compounds // Eur. J. Inorg. Chem. – 2024. – e202300751. 10.1002/ejic.202300751
227. Krinochkin A.P., Vatolina S.E., Gaviko V.S., Litvinov I.A., Valieva M.I., Shtaitz Ya.K., Rybakova S.S., Kopchuk D.S., Zyryanov G.V., Rusinov V.L. Samarium(III) Complex Based on 5-Phenyl-2,2'-bipyridine with the Diethylenetriaminotetraacetic Acid Residue in the C6 Position: Synthesis, Crystal Structure, and Photophysical Properties // Koord. Khim. – 2024. – Vol. 50, №. 6. – P. 398–404. 10.1134/S1070328424600268
228. Podyachev S.N., Sudakova S.N., Shvedova A.E., Deltsov I.D., Masliy, A.N., Mambetova G. Sh., Syakaev V.V., Vatsouro I.M., Gorbunov A.N., Bezzubov S.I., Lapaev D.V., Kuznetsov A.M., Kovalev V.V., Mustafina A.R. Conjugated 1,3-diketone calix[4]arenes: synthesis, complexation and structure-dependent sensitizing of Eu³⁺-luminescence // Polyhedron – 2024. – Vol. 264 – P.117271. <https://doi.org/10.1016/j.poly.2024.117271>
229. Strelnikova I.V., Ovsyannikov A.S., Pyataev A.V., Islamov D.R., Litvinov I.A., Dorovatovskii P.V., Solovieva S.E., Antipin I.S. First evidencing of guest-induced spin transition for dinuclear Fe(III) complex supported by calix[4]arene Schiff base ligand // EurJIC. – 2024. <https://doi.org/10.1002/ejic.202400581>
230. Strelnikova I.V., Shutilov I.D., Ovsyannikov A.S., Gabdrakhmanova F. B., Agarkov A.S., Gubaidullin A.T., Khamatgalimov A.R., Solovieva S.E., Antipin I.S. New sterically hindered disubstituted imine derivatives of (thia)calix[4]arenes bearing bulky tert-butyl groups at the lower rim: synthesis, structures, and complexation ability toward CoII and NiII cations in solution // Russ. Chem. Bull. – 2024. – Vol. 73. – P. 653-668. 10.1007/s11172-024-4175-0
231. Zagidullin A.A., Lakomkina A.R., Gerasimova T.P., Samorodnova A.P., Khrizanforov M.N., Bezkishko I.A., Miluykov V.A. A Study of 2,3,4,5-tetrakis(2-thienyl)-1-monophosphole and 2,3,4,5-tetrakis(2-thienyl)-1-monophosphoferrocene as building blocks for π-conjugated systems // Journal of Organometallic Chemistry. – 2024. – Vol. 1013. Art. No. 123163. <https://doi.org/10.1016/j.jorgchem.2024.123163>
232. Zagidullin A.A., Sakhapov I.F., Saitova A.M., Gerasimova T.P., Gafurov Z.N., Kagilev A.A., Morozov V.I., Zueva E.M., Khismatova D.K., Miluykov V.A., Shmelev A.G., Yakhvarov D.G. Influence of the substituents on physico-chemical properties of 1-R-1,2-diphospholes:

Q4

233. Aetov A.U., Usmanov R.A., Gabitov R.R., Mazanov S.V., Vol'eva V.B., A.V. Ryzhakova, R.Z. Musin, F.M. Gumerov, S.D. Varfolomeev. Chemical Transformations of Fatty Acids in the Hydrolysis of Triglycerides. Selective Isolation of Oleic Acid from Rapeseed Oil under Sub- and Supercritical Water Conditions // Russian Journal of Organic Chemistry. –2024. – Vol. 60, No. 4. – P. 625–631. 10.1134/S1070428024040092
234. Akhmedov A., Gamirov R., Panina Yu., Baklagina A., Sokolova E., Zelenikhin P., Babaeva O., Babaev V., Shurpik D., Stoikov I. Cationic Amphiphilic Meroterpenoids: Synthesis, Antibacterial, Antifungal and Mutagenic Activity // Chimica Techno Acta. – 2024. – Vol.11, No. 2. – Art. No. 202411209. 10.1016/j.crgsc.2024.100406
235. Brusnitsyn D.V., Medyantseva E.P., Ramazanova A.N., Prytkova A.V., Karimova E.R., Elistratova Yu.G., Mustafina A.R., Sokolov M.N., Eremin S.A., Mukhametov L.I. Capabilities of a Supramolecular System Based on Hexamolybdenum Cluster Complexes in the Determination of Amitriptyline in Human Urine Using Amperometric Immunosenors // Journal of Analytical Chemistry. – 2024. - Vol. 79, No. 6. - P. 726–732. 10.1134/S1061934824700102
236. Frantsuzova L.V., Gerasimova D.P., Gilfanov. I.R., Sudarikov D.V., Nikitina L.E., Lodochnikova O.A. Pseudo-Symmetric Crystallization of Fluoroquinolone Derivatives with a Terpene Moiety // J. Struct. Chem. – 2024. – Vol. 65, №. 3. – P. 546–560. 10.26902/JSC_id124068 [Французова Л.В., Герасимова Д.П., Гильфанов И.Р., Судариков Д.В., Никитина Л.Е., Лодочникова О.А. Псевдосимметричная кристаллизация производных фторхинолона с терпеновым фрагментом // Журн. структ. хим. – 2024. – Т. 65. – №. 3. – №. 124068]
237. Gaynanova G.A., Vasileva L.A., Markelov A.K., Kuznetsov D.M., Lenina O.A., Lyubina A.P., Voloshina A.D., Petrov K.A., Zakharova L.Ya. Aggregation Behavior of Carbamate-Functionalized Monocationic Morpholinium Surfactants in Aqueous Media // Russ. J. Gen. Chem. – 2024. – Vol. 94, № 10. – P. 2647–2661. <https://doi.org/10.1134/S1070363224100104>
238. Gorbachuk E. V., Mikhaylov M. A., Sheven D. G., Sokolov M. N., Yakhvarov D. G. Rhenium Iodide Cluster Re₃I₉ as a Precursor in the Synthesis of [Re(CO)₅I] and ((n-C₄H₉)₄N)₂[Re₂Cl₈] // Russ J Coord Chem. – Vol. 50, No. 9. – P. 715–720. 10.1134/S1070328424600463 [Горбачук Е. В., Михайлов М. А., Соколов М. Н., Яхваров Д. Г. Кластерный иодид рения Re₃I₉ как прекурсор в синтезе [Re(CO)₅I] и ((n-C₄H₉)₄N)₂[Re₂Cl₈] // Координационная химия. – 2024. – Т. 50, № 9. – С. 604–612. 10.1134/S1070328424600463]
239. Khrizanforova V.V., Fayzullin R.R., Krasovskaya E.B., Budnikova Y.H. Reaction Between 2-(2-Aminoethyl)pyridine and Acenaphthenequinone in the Presence of ZnCl₂ // Russian Journal of General Chemistry. – 2024. – Vol. 94, Is. 3. – P. 737-741 10.1134/S1070363224030253
240. Kononov A.I., Zlygostev A.D., Khvorova M.A., Strekalova S.O. Electrochemical C–H/N–H Coupling of Phenothiazines with Halogenated Phenols // Russ. J. Gen. Chem. – 2024. Vol. 94. – P. 3104–3112. <https://doi.org/10.1134/S1070363224110343>
241. Kuchkaev A.M., Kuchkaev A.M., Sukhov A.V., Ivanov A.S., Khayarov Kh.R., Dobrynin A.B., Sinyashin O.G., Yakhvarov D.G. Electrochemically Induced Phosphorus–Methyl Bond

Formation Involving the Complex $[\text{Co}(\text{Ph}_2\text{PCH}_2\text{P}(\text{Ph})_2\text{PPPPP}(\text{Ph})_2\text{CH}_2\text{PPh}_2)]\text{BF}_4$ // Russ. J. Electrochem. – 2024. – Vol. 60, № 2. – P. 129-134. 10.1134/S1023193524020046

242. Kuchkaev Aidar M., Zhurenok A.V., Kuchkaev Airat M., Sukhov A.V., Kashansky V.S., Nikitin M.M., Litvintseva K.A., Cherepanova S.V., Gerasimov E.Yu., Kozlova E.A., Sinyashin O.G., Yakhvarov D.G. Photocatalytic Activity of Heterostructures Based on Graphite-Like Carbon Nitride Modified with Few-Layer Black Phosphorus and Cobalt Phosphide in the Hydrogen Evolution Reaction // Kinet. Catal. – 2024. – Vol. 65. – P. 579-585. 10.1134/S0023158424601979
243. Kuznetsov D.M., Kuznetsova D.A., Valeeva F.G., Zakharova L.Ya. New Polyfunctional Biamphiphilic Surfactants Based on Alkylmethylmorpholinium Cation and Dodecyl Sulfate Anion // Colloid Journal. – 2024. – Vol. 86, Is. 1. – P. 64-85. 10.1134/s1061933x23601051
244. Mansurova E.E., Maslennikov A.A., Lyubina A.P., Sapunova A.S., Voloshina A.D., Nizameev I.R., Kadirov M.K., Fazleeva R.R., Yanilkin V.V., Ziganshina A.Y., Antipin I.S. Acetylcholine Hydrolysis and Antidote Delivery Using a Histidine-Resorcinarene-based Nanocontainer // Russ. J. Gen. Chem. – 2024. – Vol. 94. – P. 2298–2309. <https://doi.org/10.1134/S1070363224090111>
245. Ovsyannikov A.S., Strelnikova Yu.V., Iova A.A., Agarkov A.S., Islamov D.R., Dorovatovskii P.V., Solovieva S.E., Antipin I.S. Synthesis and porous crystal structure of a new tetranuclear $\{Mn_2^{II} Mn_2^{III}\}$ cluster based on a calix[4]arene functionalized at the upper rim by distal p-(4-nitrophenyl) diazenyl and p-tert-butyl groups // Journal of Structural Chemistry. – 2024. - Vol. 65, No. 2. – P. 313-322. 10.1134/S0022476624020094
246. Romanova E.A., Vasileva L.A., Gaynanova G.A., Bakhtiyarov D.I., Galkina I.V., Zakharova L.Ya. Influence of Alkylisothiuronium Bromides and 7-Chloro-4,6-dinitrobenzofuroxan-5-olates on Liposome Key Properties // Russ. J. Gen. Chem. – 2024. – Vol. 94, № 10. – P. 2797–2807. <https://doi.org/10.1134/S1070363224100232>
247. Saigitbatalova E.Sh., Fedorova D.R., Lodochnikova O.A., Islamov D.R., Shutilov I.D., Usachev K.S., Kurbangalieva A.R. 2(5H)-Furanone Azides in the Synthesis of Iminophosphoranes and Amines // Russ. J. Gen. Chem. – 2024. – Vol. 94. – P. 835–847. 10.1134/S1070363224040108
248. Sakhapov I.F., Zagidullin A.A, Gafurov Z.N., Khismatova D.K., Zaripov R.B., Kagilev A.A., Kantukov A.O., Zueva E.M., Petrova M.M., Litvinov I.A., Miluykov V.A., Shmelev A.G., Sinyashina O.G., Yakhvarov D. G. Aryl group transfer and C–P bond formation in the reaction of organonickel complexes with sodium 3,4,5-triphenyl-1,2-diphospholide // New J. Chem. – 2024. – Vol. 48. – №. 4. – P. 1559-1566. <https://doi.org/10.1039/D3NJ04924H>
249. Sakhapov I.F., Zagidullin A.A., Islamov D.R., Sharutin V.V., Yakhvarov D.G., Zherebtsov D.A., Milyukov V.A., Zaguzin A.S., Fedin V.P. Adonin S.A. Two- and Three-Dimensional Polymeric Co(II) Terephthalates with 3,3',5,5'-Tetrabromo-4,4'-bipyridine (3,3',5,5'-BrBipy) // J. Coord. Chem. – 2024. – Vol. 50, №. 1. – P. 67-72. 10.1134/S1070328423700707
250. Shakirov A.M., Gibadullina E.M., Chuganova E.A., Burilov A.R. O-Alkyl-3,5-Di-Tert-Butyl-4-Hydroxybenzylchlorophosphonates In The Synthesis Of New Phosphonamidates Containing Sterically Hindered Phenolic And N-Heterocyclic Fragments // Russian Journal Of General Chem. – 2023. – V. 93. – P. 577-582. 10.1134/S1070363223150227
251. Shvedova A.E., Deltsov I.D., Sudakova S.N., Masliy A.N., Syakaev V.V., Vatsouro I.M., Mambetova G.Sh., Kuznetsov A.M., Kovalev V.V., MustafinaA.R., Podyachev S.N. Synthesis and spectral properties of conjugated bis-1,3-diketo derivatives of calix[4]arene in the 1,3-

- alternate isomeric form and their complexes with Eu³⁺ // Russ. J. Gen. Chem. – 2024. – Vol. 94, No. 7. – P. 1610–1624. 10.1134/S1070363224070028
252. Smolobochkin A.V., T.S. Rizbayeva. Synthesis of Pyrrolizidine Derivatives (Microreview) // Chemistry of Heterocyclic Compounds. - 2024. – Vol. 60, № 1–2. – P.29–31. 10.1007/s10593-024-03287-2
253. Soficheva O.S., Bekmukhamedov G.E., Yakhvarov D.G. Catalytic synthesis of butene-1 and hexene-1 in the homogeneous oligomerization of ethylene in the presence of nickel complexes based on N-heteroaryl-substituted α -diphenylphosphinoglycines // Kinetics and Catalysis. – 2024. - Vol. 65, Is. 1. - P. 8–16. 10.1134/S0023158424010075
254. Tatarinov D.A., Shepelina A.V., Bajnazarova E.E., Ali M., Dovzhenko A.P., Zairov R.R., Mironov V.F. Synthesis and Keto-Enol Tautomerism of 1-Phenyl(1-thiophen-2-yl)-4-(diphenylphosphoryl)butane-1,3-diones // Russ. J. Gen. Chem. – 2024. – Vol. 94, № 7. – P. 1630–1634. 10.1134/S1070363224070041
255. Zalaltdinova A.V., Sadykova Yu.M., Gazizov A.S., Smailov A.K., Pudovik M.A., Burilov A.R. Synthesis of new unsymmetrical cage phosphonates based on 4-aryl-2-hydroxy-5,7,8-trimethylbenzo[e][1,2]oxaphosphinine 2-oxides // Russ. J. of General Chem. – 2024 – Vol. 94, No 9. – P. 2271-2276. <https://doi.org/10.1134/S107036322409007X>
256. Zalaltdinova A.V., Sadykova Yu.M., Smailov A.K., Gerasimova D.P., Gazizov A.S., Pudovik M.A., Burilov A.R. Synthesis of new hydrazones based on 3-hydroxy-4,8,9,11-tetramethyl-12H-6,12-methanodibenzo[d,g][1,3,2]dioxaphosphocine-2-carbaldehyde 6-oxide // Russ. J. of General Chem. – 2024 – Vol. 94. – P. 2616-2622. <https://doi.org/10.1134/S1070363224100062>
257. Zalaltdinova A.V., Sadykova Yu.M., Smailov A.K., Gerasimova D.P., Gazizov A.S., Pudovik M.A., Burilov A.R. Synthesis of New Hydrazones Based on Functionalized Phosphaneoflavanones Containing an Aldehyde Group // Russ. J. of General Chem. – 2024 – Vol. 94, No. 11. – P. 2899–2904. <https://doi.org/10.1134/S1070363224110100>
258. Zhiltsova E.P., Valeeva F.G., Kuznetsov D.M., Kushnazarova R.A., Vasilieva E.A., Mirgorodskaya A.B., Zakharova L.Ya. Alkaline hydrolysis of paraoxon in micellar solutions of carbamate surfactant // Russian Journal of General Chemistry. – 2024. – Vol. 94, Is. 2. – P. 386–394. 10.1134/S1070363224020142
259. Ziganshina A.Y., Shutova A.V., Mansurova E.E., Maslennikov A.A., Fazleeva R.R., Yanilkin V.V., Lyubina A.P., Voloshina A.D., Nizameev I.R., Kadirov M.K., Antipin I.S. Acetylcholine Hydrolysis and Nanocontainer for Binding and Neutralization of Paraquat // Russ. J. Gen. Chem. – 2024. – Vol 94. – P. 2310–2320. <https://doi.org/10.1134/S1070363224090123>
260. Елистратова Ю.Г., Ретюнская О.О., Ахмадеев Б.С., Герасимова Т.П., Исламова Л.Н., Фазлеева Г.М., Калинин А.А., Мустафина А.Р., Синяшин О.Г. Люминесцентный отклик диалкиламиностирилгетареновых красителей в составе смешанных фосфолипидных агрегатов на ионы меди в водных растворах // Журнал общей химии. – 2024. - Т. 94, вып. 1 – С. 106-117. 10.1134/S1070363224010109
261. Кучкаев А.М., Кучкаев А.М., Сухов А.В., Сапарина С.В., Гнездилов О.И., Климошицкий А.Е, Зиганшина С.А., Низамеев И.Р., Файзуллин Б.А., Синяшин О.Г., Яхваров Д.Г. Ковалентная функционализация малослойного черного фосфора комплексом [NiBr₂(phen)], где phen-1, 10-фенантролин //Журнал структурной химии. – 2024. – Т. 65, №. 4. – С. 124527. 10.26902/JSC_id124527

262. Леонтьев А.В., Нуртдинова Л.А., Митюшкин Е.О., Шмелев Ф.Г., Жарков Д.К., Андрианов В.В., Муранова Л.Н., Гайнутдинов Х.Л., Заиров Р.Р., Хазиева А.Р., Мустафина А.Р., Никифоров В.Г. Наночастицы [Ru(dipy)3] 2+ @ SiO₂ как термосенсоры и зонды для люминесцентной томографии биопрепаратов // Журнал технической физики. – 2024 – Т. 94, № 9. – С. 1576-1582. 10.61011/JTF.2024.09.58680.83-24

Scopus

263. Rahman M.A., Hasnain M.S.M., Zairov R. Assessment of improving heat exchanger thermal performance through implementation of swirling flow technology // International Journal of Thermofluids. - 2024. - Vol. 22. - Art. No. 100689. 10.1016/j.ijft.2024.100689
264. Wan Z.-X., Kuchkaev A., Yakhvarov D., Kang X.-W. Monodispersed Cu-TCPP/Cu₂O hybrid microspheres: a superior cascade electrocatalyst towards CO₂ reduction to C₂ products // J. Electrochem. – 2024. – Vol. 30. – Art. 2303271. 10.13208/j.electrochem.2303271

РИНЦ

265. Выштакалюк А.Б., Парфенов А.А., Семенов В.Э., Шашин М.С., Гаяметдинова И.В., Криулина М.В., Зобов В.В. Гепатопротекторные свойства новых производных ксимедона с модифицированным структурным фрагментом // Бюл. эксп. биол. и мед. – 2024. – Т. 178, № 11. – С. 563-568. DOI: DOI 10.47056/0365-9615-2024-178-11-563-568

РЕЗУЛЬТАТЫ ИНТЕЛЛЕКТУАЛЬНОЙ ДЕЯТЕЛЬНОСТИ

1. Бромсодержащие пространственно-затрудненные фенолы, обладающие противоопухолевой активностью / Бурилов А.Р., Гибадуллина Э.М., Волошина А.Д., Любина А.П., Сапунова А.С., Чугунова Е.А., Нгуен Х.Б.Ч., Алабугин И.В., Шакиров А.М. // Патент РФ на изобретение RU 2822270 С1, 03.07.2024. Заявка от 22.12.2023. Грант № 075-15-022-1128 (Руководитель Алабугин И.В.)
2. Газочувствительный элемент кондуктометрического сенсора для обнаружения диоксида азота и способ его получения / Низамеев И.Р., Низамеева Г.Р., Лебедева Э.М., Кузнецова В.В., Гайнуллин Р.Р., Синяшин О.Г. // Патент РФ на изобретение RU 2819574 С1, 21.05.2024. Заявка от 18.12.2023
3. Способ получения водорастворимого флуоресцентного маркера на основе комплекса куркумина с дифторидом бора / Фархутдинов И.З., Камышников А.Г., Береговой А.Н., Заиров Р.Р., Довженко А.П. // Патент РФ на изобретение RU 2821510 С1. 25.06.2024. Заявка от 07.11.2023. ПАО "Татнефть" имени В.Д. Шашина.
4. Способ получения трассеров класса фосфиноксидов / Фархутдинов И.З., Камышников А.Г., Абдулхаков Р.Р., Заиров Р.Р., Довженко А.П. // Патент РФ на изобретение RU 2823867 С1. 30.07.2024. Заявка от 10.01.2024. ПАО "Татнефть" имени В.Д. Шашина.
5. Средство на основе производного арглабина, обладающее селективным цитотоксическим действием / Салин А.В., Волошина А.Д., Амерханова С.К., Любина А.П. // Патент РФ на изобретение RU 2814259 С1, 28.02.2024. Заявка от 01.09.2023. Грант РНФ 23-23-00029 (Руководитель Салин А.В.)

6. Фосфониевые соли на основе алантолактона, обладающие противоопухолевой активностью, и способ их получения / Шемахина М.Э., Немтарев А.В., Миронов В.Ф., Волошина А.Д., Любина А.П., Амерханова С.К., Пухов С.А. // Патент РФ на изобретение RU 2818095 С1, 24.04.2024. Заявка от 21.07.2023. Соглашение № 075-15-2020-777 (Руководитель Миронов В.Ф.)
7. Фторсодержащие бензилированные изатины / Богданов А.В., Бурцева Е.А., Волошина А.Д., Любина А.П., Амерханова С.К., Алабугин И.В. // Патент РФ на изобретение RU 2816105 С1, 26.03.2024. Заявка от 02.06.2023. Грант № 075-15-022-1128 (Руководитель Алабугин И.В.)
8. Электрохимический способ получения 2-этилгексаноата хрома - прекатализатора тримеризации этилена в гексен-1 / Яхваров Д.Г., Иванов А.С., Сухов А.В. // Патент РФ на изобретение RU 2822543 С1. 09.07.2024. Заявка от 22.12.2023. Грант Президента Российской Федерации для государственной поддержки ведущих научных школ Российской Федерации: № 4078.2022.1.3.