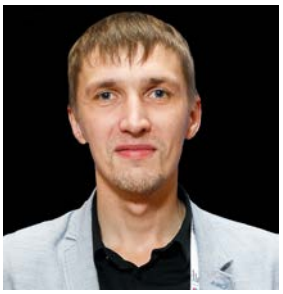

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GENERAL SUMMARY

- PhD in Chemistry

- During work at the Institute, Mikhail Khrizanforov developed original composite systems that have no analogues in the world, which are used in various fields of world science and industry - as a result, a new type of supercapacitors was created; sensor systems operating on the principle of donor-acceptor pairs (detectors of explosives); various fuel cells and carbon dioxide reduction catalysts. All developments are based on a composite system developed by Mikhail based on phosphonium ionic liquids. Khrizanforov M.N. for his contribution to the development of modern physical chemistry and nanotechnology, since 2017 he has been a member of the scientific committee of The Applied Nanotechnology & Nanoscience International Conference. He is an expert of the Russian Science Foundation and a member of the international electrochemical community ISE. More than 14 years of laboratory and research experience in the field of electrochemistry, nanotechnology, physical chemistry, electrosynthesis, electroanalysis, electrocatalytic phenomena and organoelement chemistry. During this time, more than 84 publications (Scopus) have been published. h-index = 19 (Scopus). The number of citations is more than 1000
- Scientific Interests: electrosynthesis, energy storage, batteries, solid state electrochemistry, electrochemically induced reactions, catalysis, problems of electrolysis, electrochemical phenomena, electrodes, redox processes, HOMO/LUMO/, electroanalytical methods, electron transfer, intermediates, metal complex catalysis, coupling reactions, functionalization, ecological problems, organoelemental compounds, etc**.**

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PROFESSIONAL EXPERIENCE

SENIOR RESEARCHER **2019- present**
Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center, Russian Academy of Sciences, Kazan, Russia

VISITING RESEARCH ASSOCIATE **2019- 2019**
Lehigh University, Bethlehem, PA, USA

RESEARCH OFFICER **2015- 2019**
Russian Academy of Sciences, *Arbuzov Institute of Organic and Physical Chemistry* Kazan, Russia

JUNIOR RESEARCH OFFICER **2010-2015**
Russian Academy of Sciences, Arbuzov Institute of Organic and Physical Chemistry
Kazan, Russia

EDUCATION

PhD in Chemistry — **November 2013**
Kazan State University, Kazan, Russia — *Thesis titled:"Electrocatalytic fluoroalkylation of aromatic halides by transition metal complexes (Ni, Co, Cu, and Pd)"*

M.Sc. IN ORGANIC CHEMYSTRY — ***June 2010***
Kazan State University, Kazan, Russia — *Thesis titled: ""Electrocatalytic fluoroalkylation by transition metal complexes in low oxidation state"*

EXPERTISE

- Electrochemistry
- Solid State Electrochemistry
- Physical Chemistry
- Organic Chemistry, Organoelemenal Chemistry
- Electrosynthesis
- Electroanalysis (Voltammetry)
- Electrocathalytic Phenomena

AWARDS, HONOURS, FELLOWSHIPS

- Laureate of the "Best Young Scientist FRC 2020"
- Member of the International Society of Electrochemistry (since 2019)
- Winner of the Scholarship of the President of the Russian Federation (2018-2020)
- Best young scientist in the field of natural sciences of Republic Tatarstan (2017)
- Young Arbuzovs Prize in the field of fundamental and applied chemistry of Kazan (2015)
- Winner of the III All-Russian Competition of Innovation in the field of green chemistry (2014)

INTERNATIONAL COOPERATIONS

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List of representative publications (Since 2017)

1. SYNTHESIS, STRUCTURE AND ELECTROCHEMICAL PROPERTIES OF 3,4,5-TRIARYL-1,2-DIPHOSPHAFERROCENES, I.A. Bezkishko, A. Zagidullin, M. Khrizanforov, T. Gerasimova, K. Ivshin, O. Kataeva, Y. Ganushevich, V. Miluykov, P. Lönnecke, E. Hey-Hawkins, Inorg. Chem. Front. 2022, 10.1039/D2QI00446A

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R.P., Budnikova Y.G., Miluykov V.A., Katsyuba S.A., Journal of Organometallic Chemistry. 2021. V. 932. P. 121641.

4. ONE-POT SYNTHESIS OF SODIUM 3,4,5-TRIPHENYL-1,2-DIPHOSPHOLIDE THROUGH DIRECT FUNCTIONALIZATION OF WHITE PHOSPHORUS, Zagidullin A.A., Khrizanforov M.N., Bezkishko I.A., Miluykov V.A., Lönnecke P., Hey-Hawkins E. Journal of Organometallic Chemistry. 2021. V. 956. P. 122122.

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6. GENERATION OF A HETERO SPIN COMPLEX FROM IRON(II) IODIDE WITH REDOX ACTIVE ACENAPHTHENE-1,2-DIIMINE, Yambulatov D.S., Nikolaevskii S.A., Kiskin M.A., Babeshkin K.A., Efimov N.N., Eremenko I.L., Kholin K.V., Khrizanforov M.N., Budnikova Y.G., Goloveshkin A.S., Imshennik V.K., Maksimov Y.V., Kadilenko E.M., Gritsan N.P., Molecules. 2021. V. 26. № 10.

7. A WATER-SOLUBLE SODIUM PECTATE COMPLEX WITH COPPER AS AN ELECTROCHEMICAL CATALYST FOR CARBON DIOXIDE REDUCTION, Kholin K.V., Khrizanforov M.N., Babaev V.M., Minzanova S.T., Kadirov M.K., Budnikova Y.H., Nizameeva G.R., Molecules. 2021. V. 26. № 18.

8. MAGNESIUM AND NICKEL COMPLEXES WITH BIS(P-IMINOQUINONE) REDOX-ACTIVE LIGAND, Meshcheryakova I.N., Trofimova O.Y., Druzhkov N.O., Pashanova K.I., Piskunov A.V., Yakushev I.A., Dorovatovskii P.V., Khrizanforov M.N., Budnikova Y.G., Aisin R.R., Russian Journal of Coordination Chemistry. 2021. V. 47. № 5. 307-318.

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10. SYNTHESIS, CRYSTAL STRUCTURE AND ELECTROCHEMICAL PROPERTIES OF POLY(CADMIUM 1,1′-FERROCENEDIYL-BIS(H-PHOSPHINATE)), Shekurov R., Khrizanforov M., Islamov D., Gerasimova T., Zagidullin A., Budnikova Y., Miluykov V., Journal of Organometallic Chemistry. 2020. V. 914. 121233.

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Metlushka K., Ivshin K., Nikitina K., Alfonsov V., Vandyukov A., Khrizanforov M., Budnikova Y., Sinyashin O., Krupskaya Y., Kataev V., Büchner B., Knupfer M., Dalton Transactions 2019. V. 48. № 46. 17252-17257.

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33. PHOSPHONIUM-BASED IONIC LIQUIDS AS ELECTROLYTE FOR SUPERCAPACITORS, Khrizanforov M.N., Grinenko V.V., Strekalova S.O., Budnikova Y.H., Phosphorus, Sulfur and Silicon and the Related Elements. 2019. V. 194. № 4-6. 388-390.

34. SYNTHESIS AND CHARACTERIZATION OF POLY([EU OR DY] 1,1-FERROCENEDIYL-BIS(H -PHOSPHINATES)), Shekurov R.P., Gilmanova L.H., Khrizanforov M.N., Strekalova S.O., Budnikova Y.H., Gerasimova T.P., Katsyuba S.A., Miluykov V.A., Phosphorus, Sulfur and Silicon and the Related Elements. 2019. V. 194. № 4-6. 459-462

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Dudkina Y., Strekalova S., Fedorenko S., Kononov A., Mustafina A., Laskin A.,ChemCatChem. 2019. V. 11. № 22. 5615-5624.

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