

Gavronova Anna Stepanovna

Personal Information:

Date of Birth: 25.03.2003
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Tel: +7 (901) 734 1319
Citizenship: Russia
Languages: Russian (native), English (intermediate)



Education:

- 2021 – 2026: Mendeleev University of Chemical Technology of Russia, Moscow, Russia.
Specialist degree in the specialty 04.05.01. Fundamental and Applied Chemistry, Higher Chemical College of the Russian Academy of Sciences.
- 2013 – 2021: Secondary school No. 1 with advanced study of physics and mathematics named after A.P. Zavenyagin, Norilsk, Russia.

Additional Educational Program:

- Oct 2024 – May 2025: Diploma of additional education in Mendeleev University of Chemical Technology of Russia, Moscow, Russia. Program “Python programming and data structures for technical applications in science and industry”.
- 2024: Certificate with distinction “Python Generation: course for beginner”

Laboratory Experience:

- Dec 2023 – Present: Materials Discovery Laboratory, Skolkovo Institute of Science and Technology, Skolkovo, Russia.
Prediction of new magnetic materials, permanent magnet, VASP.
- Nov 2022 – Sept 2023: Laboratory of Crystal Chemistry and X-ray Diffraction Analysis, Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Moscow, Russia.
Hydroxylamine crystal structures, cyclometallic complexes Pd(II), Molecular dynamics simulations in ORCA.
- Feb 2022 – Oct 2022: Laboratory of Chemistry of Coordinating Polynuclear Compounds, Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Moscow, Russia.
Applied recrystallization, IR spectroscopy, XRD, working in an inert environment for synthesis and study of the structure of 1D coordination polymers of Cu(II).

Publications:

- 2024: Samulionis A.S., Voronina J.K., Melnikov S.N., **Gavronova A.S.** *et al.* Synthesis and X-ray Structures of Polymeric Calcium Carboxylates // *Russ. J. Coord. Chem.* 2024. V. 50, № 9. P. 757–767.
ISSN 1070-3284
DOI: 10.1134/S1070328424601043
- 2023: Navasardyan M.A., Chernyavskiy D.R., **Gavronova A.S.**, Churakov A.V.. Re-determination of supposedly known hydrazine and hydroxylamine crystal structures. Conference: “New Emerging Trends in Chemistry”, 2023, Armenia.

Gavronova A.S., Chernyavsky D.R., Navasardyan M.A. Crystal structure of a hydroxylamine crystal with hydroxylammonium chloride $[\text{NH}_3\text{OH}]^+\text{Cl}^- \text{NH}_3$. The International Scientific Conference “Lomonosov-2023”, Chemistry section, ISBN 978-5-00218-214-5

Makarevich Yu.E., **Gavronova A.S.**, Yakushev I.A. New approaches to synthesis cyclometallic complexes Pd(II).

The International Scientific Conference “Lomonosov-2023”, Chemistry section, ISBN 978-5-00218-214-5

Chernyavsky D.R., **Gavronova A.S.**, Navasardyan M.A. Crystal chemistry hydroxylammonium chloride monohydroxylaminosolvate.

XIII Conference of Young Scientists on General and Inorganic Chemistry, ISBN 978-5-6048945-4-5

Gavronova A.S., Makarevich Yu.E, Yakushev I.A. New approaches to synthesis cyclometallic complexes Pd(II).

XIII Conference of Young Scientists on General and Inorganic Chemistry, ISBN 978-5-6048945-4-5

2022: **Gavronova A.S.** Synthesis and study of the structure of new 1D coordination polymers of copper(II) with ligands of 1,4-diaza-1,3-butadiene series. The XIX Russian annual Conference of young researchers and postgraduates in the specialty “Physico-chemistry and technology of inorganic materials”. Moscow, ISBN 978-5-4465-3757-0

Voronina J.K., **Gavronova A.S.**, Yambulatov D.S. *et al.* Reactivity of 1,4-Diaza-1,3-Butadienes towards Cu(II) Pivalate: A Rare Case of Polymeric Structure Formed by Bridging Diazabutadiene Ligands. // *Russ. J. Coord. Chem.* 2022. V. 48, № 12. P. 916–923

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DOI: 10.1134/S1070328422700154

Skills:

- Computer skills: Python, Linux;
- Packages and programs: VASP, ORCA;
- Experimental Chemistry;
- Physicochemical methods of analysis: IR spectroscopy, XRD.