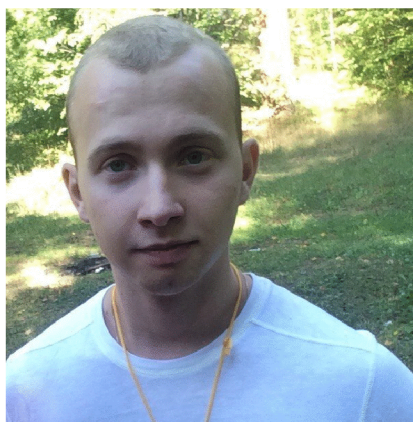


# KAGILEV ALEXEY



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**DATE OF BIRTH: JANUARY 21, 1997**

## GENERAL SUMMARY

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- **Research activity** has been started in 2016 in the laboratory of Organometallic and Coordination Compounds of A.E. Arbuzov Institute of Organic and Physical Chemistry of Russian Academy of Sciences being student of the Physical chemistry of Department of the Kazan Federal University.
- **Scientific interests:** electrochemistry, organonickel complexes, homogeneous catalysis, organometallic catalysts etc.

## PROFESSIONAL EXPERIENCE

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### LABORANT-RESEARCHER

**09.2016 – 01.2020**

*Research laboratory "Industrial Catalysis"  
Project "Homogeneous Catalysis"  
The A.M. Butlerov Institute of Chemistry  
Kazan (Volga Region) Federal University  
Kazan, Russia*

### SENIOR ASSISTANT

**06.2020 – present**

*Russian Academy of Sciences  
FRC Kazan Scientific Center  
A.E. Arbuzov Institute of Organic and Physical Chemistry  
Kazan, Russia*

## EDUCATION

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### M. Sc. in PHYSICAL CHEMISTRY

**June 2020**

*A.M. Butlerov Institute of Chemistry  
Kazan Federal University  
Kazan, Russia*

*Thesis titled: "Organonickel sigma-complexes based on diimine ligands; electrochemical synthesis, properties and reactivity with phosphoric compounds"*

## EXPERTISE

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- Physical chemistry
- Electrochemistry
- Organometallic Chemistry
- Catalytic Chemistry
- Organometallic Chemistry

## SPOKEN LANGUAGES

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- Russian – mother tongue
- English – basic knowledge

## PUBLICATIONS

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1. Z. N. Gafurov, G. E. Bekmukhamedov, **A. A. Kagilev**, A. O. Kantyukov, I. F. Sakhapov, I. K. Mikhailov, K. R. Khayarov, R. B. Zaripov, D. R. Islamov, K. S. Usachev, L. Luconi, A. Rossin, G. Giambastiani, D. G. Yakhvarov. Unsymmetrical pyrazole-based PCN pincer NiII halides: Reactivity and catalytic activity in ethylene oligomerization // *J. Organomet. Chem.*, **2020**, 912, 121163.
2. Z. N. Gafurov, I. F. Sakhapov, **A. A. Kagilev**, A. O. Kantyukov, K. R. Khayarov, O. G. Sinyashin, D. G. Yakhvarov. The formation of mesitylphosphine and dimesitylphosphine in the reaction of organonickel  $\sigma$ -complex [NiBr(Mes)(bpy)] (Mes = 2,4,6-trimethylphenyl, bpy = 2,2'-bipyridine) with phosphine PH<sub>3</sub> // *Phosphorus, Sulfur Silicon Relat. Elem.*, **2020**, 195(9), 726-729.
3. L. Luconi, G. Tuci, Z. N. Gafurov, G. Mercuri, **A. A. Kagilev**, C. Pettinari, V. I. Morozov, D. G. Yakhvarov, A. Rossin, G. Giambastiani. Unsymmetrical nickel (PCN) pincer complexes with a benzothiazole side-arm: Synthesis, characterization and electrochemical properties // *Inorg. Chim. Acta*, **2020**, 517, 120182.
4. Z. N. Gafurov, A. B. Dobrynin, I. F. Sakhapov, **A. A. Kagilev**, A. O. Kantyukov, A. A. Balabaev, A. V. Toropchina, O. G. Sinyashin, D. G. Yakhvarov. New 2,2'-bipyridine and 1,10-phenanthroline based nickel(II) phosphates // *Phosphorus, Sulfur Silicon Relat. Elem.*, **2019**, 194(4-6), 517-521.
5. Z. N. Gafurov, **A. A. Kagilev**, A. O. Kantyukov, O. G. Sinyashin, D. G. Yakhvarov. Hydrogenation reaction pathways in chemistry of white phosphorus // *Pure Appl. Chem.*, **2019**, 91(5), 797-810.
6. Z. N. Gafurov, **A. A. Kagilev**, A. O. Kantyukov, A. A. Balabaev, O. G. Sinyashin, D. G. Yakhvarov. Classification and synthesis of nickel pincer complexes // *Russ. Chem. Bull.*, **2018**, 67(3), 385-394.

7. Z. N. Gafurov, A. O. Kantyukov, **A. A. Kagilev**, A. A. Balabayev, O. G. Sinyashin, D. G. Yakhvarov. Nickel and palladium N-heterocyclic carbene complexes. Synthesis and application in cross-coupling reactions // Russ. Chem. Bull., **2017**, 66(9), 1529-1535.

## GRANTS

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**Project No. 19-29-08051** of the Russian Foundation for Basic Research (RFBR) “The development of new methods of electrochemical generation and activation of highly efficient catalysts based on complexes of group VIII 3d-metals and alpha-phosphorylated alpha-amino acids for the oligomerization of ethylene” (2019-2022) – *executor of the project.*

**Project No. 18-33-00177** of the Russian Foundation for Basic Research (RFBR) “Development of nickel (II) based new homogeneous catalysts with pincer type ligands for processes of oligomerization of ethylene and cross-coupling of organic halides” (2017-2019) *executor of the project.*