CURRICULUM VITAE

TSYGANKOV OLEXANDR VALERIIOVYCH

Resume:
21 years of experience in the field of organic chemistry and education, 24 years of experience in scientific research, 16 years of experience in managing teams, science topics, projects, etc., 3 year of experience in popularizing science and STEM education.

First name: Olexandr
Last name: Tsygankov
Date of birth: 03.01.1980
Profession (current position):
Institute of Functional Materials Chemistry of the State Scientific Institution "Institute for Single Crystals" of National Academy of Sciences of Ukraine
Position: Leading researcher

National Technical University "Kharkiv Polytechnic Institute", MES of Ukraine
Position: Head of the department of organic chemistry, biochemistry, paints and varnishes and coatings
Scientific degree and academic title
Doctor of chemical sciences, professor
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Address (official): *Institute of Functional Materials Chemistry, State Scientific Institutionu"Institute for Single Crystals" of National Academy of Sciences of Ukraine, Nauky Ave., 60, 61072, Kharkiv, Ukraine*

Education:

higher	Dnipropetrovsk National University (**master's degree** with honors, specialty "Chemistry", 2002)
scientific degree and scientific title	**Doctor of Chemical Sciences** (specialty 02.00.03 – organic chemistry, Ukrainian State University of Chemical Technology, 2015), **Associate Professor** (Associate Professor at the Department of General Technical Disciplines and Aviation Chemistry, 2012) **Professor** (professor at the department of organic

	chemistry, biochemistry, paint materials and coatings, 2019)
Professional occupation:	Since March 2006 until August 31, 2016 – Kirovohrad Flight Academy of the National Aviation University in the positions of Art. teacher, associate professor, head of the department of general technical disciplines and aviation chemistry; From September 1, 2016 and until now – National Technical University "Kharkiv Polytechnic Institute" in the position of the *head of the department* of organic chemistry, biochemistry, paint materials and coatings.
Scientific and research activities:	From January 2008 to February 2013 – *leading researcher*, scientific sector of the Kirovohrad Flight Academy of the National Aviation University. From January 8, 2019 to the present – *leading researcher* of the Institute of Functional Materials Chemistry of the State Scientific Institution "Institute for Single Crystals" of National Academy of Sciences of Ukraine.
Awards, scholarships:	2009-2011 awarded a scholarship of the Cabinet of Ministers of Ukraine for young scientists; 2012-2014 awarded a scholarship of the Cabinet of Ministers of Ukraine for young scientists;
Professional skills and knowledge:	
Scientific and research:	Work in research laboratories (organic synthesis), planning, conducting experiments, interpretation, systematization and generalization of scientific results; Organization and management of work of scientific groups and scientific projects. Organization and management of work of scientific groups and scientific projects. Organization and management of work of scientific groups and scientific projects.
Scientific and pedagogical:	Knowledge of the theory of science and practical skills to apply them in the practice of research and teaching activities; Understanding of the psychological and didactic foundations of teaching the assigned disciplines, knowledge and consideration of the psychological characteristics of students of higher education and their own personal traits, patterns of perception by students of higher education of the content of education; Mastery of methods, techniques of conveying scientific information to students of higher education;

	The creative approach to the development and implementation of new lecture courses, constant self-improvement, etc.;
Language knowledge:	Ukrainian – fluently; English – above average.
Personal skills:	The ability to clearly organize and plan the performance of assigned tasks, the ability to rationally use working time, set priorities; The creative approach to solving tasks, activity and initiative in learning new information; The ability to quickly adapt to new conditions and requirements.
Mentoring experience:	June 2019 STEM Camp School (NTU "KhPI"), mentor in the direction "Chemistry"
Participation in educational events:	International Day of Light (as part of the UNESCO project, May 16, 2019).
Scientific works:	ORCID: https://orcid.org/0000-0001-5298-8450 More than **100** scientific publications, including: - **26** in scientific metric databases **Scopus** and **Web of Science** - Scopus Author ID: 7102020617 ResearcherID: K-2883-2016 - *h*-index **10** - more than **70** abstracts of reports at All-Ukrainian and international conferences

The most significant articles for the last 5 years:

Synthesis and study of biological activity of azometins based on ethyl derivatives 4-acetyl-3,5-dimethyl-1H-pyrol-2-carboxylate / E.I.Mikhedkina, V.V.Ananieva, *A.V.Tsygankov,* T.P.Osolodchenko, S.V.Ponomarenko, V.A.Chebanov // **Functional Materials. 2021**, 28, № (3), p. 587-596.

Synthesis of imidazo[1,2-a]pyridine-containing peptidomimetics by tandem of Groebke–Blackburn–Bienaymé and Ugi reactions / O.V. Kolomiiets; A. V. Tsygankov, M.N. Kornet; A.A Brazhko; V.I Musatov; V.A Chebanov // **Beilstein J. Org. Chem., 2023**, 19, P. 727–735.

Azomethines based on ethyl 4-formyl-3,5-dimethyl-1H-pyrrole-2-carboxylate, its biological activity and reaction with thioglycolic acid / E.I. Mikhedkina, V.V. Ananeva, I.I., Y.I. Sakhno, Melnik, V.A. Vereshchak, T.P. Osolodchenko, S.V. Shishkina, A. V., Tsygankov V.A. Chebanov // **Chemistry of Heterocyclic Compounds, 2023**, 59(6-7), P. 449–455.

Tsygankov A.V., Vereshchak V.O., Savluk T.O., Desenko S.M., Ananieva V.V., Buravov O.V., Sakhno Ya.I., Shishkina S.V., Chebanov V.A. *Ugi bisamides based on*

pyrrolyl-β-chlorovinylaldehyde and their unusual transformations // **Beilstein J. Org. Chem.**, **2024**, 20, 1773-1784.

Abstracts of reports

Controlled Doebner-, Groebke- and Ugi-type Multicomponent Reactions Involving Aminoazoles with Further In Vitro Antibacterial and Antiviral Activity Evaluation Studies of the Reaction Products / Abstracts of 7th International Conference on Multicomponent Reactions and Related Chemistry **August 26th to 31st, 2018, Düsseldorf, Germany** // Murlykina M.V., A.V. Tsygankov, Kornet M.M., Van der Eycken E.V., Chebanov V.A.

Post-cyclization of ugi bisamides based on pyrrolyl-*β*-chlorovinylaldehyde / XXIII International Symposium "Advances in the Chemistry of Heteroorganic Compounds" **Łódź, October 28, 2022** // V.V. Ananeva, V.A. Vereshchak, A.I. Larina, A.V. Tsygankov, V.A. Chebanov

An unexpected method of synthesis of derivatives 2-oxo-4-(1H-pyrrol-3-yl)but-3-enoic acid based on Ugi bisamides / International Symposium «Advances in the chemistry of heteroorganic compounds». – Lodz, 2023. – p. 49 // Vereshchak V., A.V. Tsygankov, Ananieva V., Savluk T., Chebanov V.