

CURRICULUM VITAE

Saraiev Viacheslav Evgenovich

date of birth: 28.07.1973

citizenship: Ukraine

Contact information*

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None

Personal Internet page (on the institution's website)

Personal profiles in scientometric databases*

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<https://www.scopus.com/authid/detail.uri?authorId=8596058600>

<https://www.webofscience.com/wos/author/record/HNB-9400-2023>

ORCID, Scopus, Publons Web of Science, Google Scholar

Education*

Kharkiv State University (now: V. N. Karazin Kharkiv National
University), 1991-1997, chemistry, JIA B C №001722

name of higher education institution, years of study, specialty, diploma number

Degree*

PhD in Organic Chemistry, 06.10.2010, V. N. Karazin Kharkiv
National University, ДК №061414

name, specialty, date and place of defense, diploma number

Academic status*

None

rank, specialty, date of assignment, series and certificate number

Professional work experience* (for the last 10 years)

from January 01, 2023 to the present - Senior Research Scientist
at the Department of Organic and Bioorganic Chemistry of the
State Scientific Institution "Institute for Single Crystals" of
National Academy of Sciences of Ukraine" (main place of work).

from 08.2014 to 12.2022 - Researcher at the Department of
Organic and Bioorganic Chemistry of the State Scientific
Institution "Institute for Single Crystals" of National Academy of
Sciences of Ukraine" (main place of work).

	<p>from 01.2010 - 07.2014 Junior Researcher at the Department of Organic and Bioorganic Chemistry of the State Scientific Institution "Institute for Single Crystals" of National Academy of Sciences of Ukraine" (main place of work).</p> <p><i>in reverse chronological order - Dates [from - to], Position, Name of unit and institution/organization</i></p>
Main research activity	
<p>Management of collective research projects (which received funding on a competitive basis from outside the main place of work)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>None</p> <p><i>name of the project, implementing institution, implementation period, number of participants, source of funding; if available: a link to the website or a scan of the document</i></p>
<p>Participation in collective research projects</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>The executor of the departmental R&D of the National Academy of Sciences of Ukraine (scan of the document):</p> <p>"Creation of modern bases of obtaining and analyzing substances and components of materials for pharmaceutical purposes" (code "Syntan"). 2019-2021, State Scientific Institution "Scientific and Technological Complex "Institute of Single Crystals" of the National Academy of Sciences of Ukraine". State registration number 0119U100727.</p> <p>"Development of the methodology of "click" chemistry for the creation of components of the latest complex-forming materials" (code "Gel") 2017-2021, State Scientific Institution "Scientific and Technological Complex "Institute of Single Crystals" of the National Academy of Sciences of Ukraine". State registration number 0117U001280.</p> <p>"Development of methods for the synthesis of new chemotypes of drug-like nitrogen-containing heterocyclic compounds" (code "Chemotype") 2016-2018, State Scientific Institution "Scientific and Technological Complex "Institute of Single Crystals" of the National Academy of Sciences of Ukraine". State registration number 0116U001209.</p> <p><i>status in the project and method/form of participation, name of the project, level of the project (all-Ukrainian, international), organizer/executor of the project, period of implementation, source of funding; if available: a link to the website or a scan of the document</i></p>
<p>Individual research projects (which received</p>	<p>None</p>

funding on a competitive basis from a third party)

(no more than 5 positions in the last 10 years)

name of the project, period of implementation, name of the grant and donor; if available: a link to the website or a scan of the document

Main scientific achievements

Published scientific works*

(no more than 10 positions in the last 10 years)

«Green microwave-assisted multicomponent route to the formation of 5,8-dihydropyrido[2,3-d]pyrimidine skeleton in aqueous media» / Saraev V.E., Zviagin E.M., Melik-Oganjanyan R.G., Sen'ko Yu.V., Desenko S.M. Chebanov V.A J. of Heterocyclic Chemistry - 2017, Vol. 54, P. 318-324

<http://dx.doi.org/10.1002/jhet.2586>

Q3

«New effective sorbents for purification of aqueous media from technogenic contaminants» / S.V.Khimchenko, T.A.Blank, K.N.Belikov, K.Yu.Bryleva, I. B.-Kh.shcherbakov, V.A.Chebanov, E.A.Muravyova, V.E.Saraev, I.M.Zviagin, S.A.Komykhov, K.S.Ostras, V.N. Chernenko

Functional Materials – 2017, Vol. 24, No.4, P. 706-713

<https://doi.org/10.15407/fm24.04.706>

Q3

«Chemical Modification and Quantification of 1-Methylcyclopropene in Supramolecular Complex with Cucurbit[6]Uril by High-Performance Liquid Chromatography» / Daria Yu Miasnikova., Natalia A. Pinchukova., Vyacheslav E. Saraev., Vladimir I. Musatov., Hanna S. Vlasenko., Yuliia V. Shliapkina., Oleksandr I. Zbruyev., Valentyn A. Chebanov

Chromatographia - 2022, Vol. 85, P. 1009–1016

<https://doi.org/10.1007/s10337-022-04199-z>

Q3

«Synthesis of 1-(3-(1-substituted-1,2,3-triazol-4-yl)-1,2,4-triazol-5-yl)-tetrazoles by sequential assembly of azole fragments» / Zviagin E., Saraev V., Sysoiev D., Klepetářová D., Mazur M., Zhelavskiy O., Shliapkina Yu., Müller Th.J.J., Chebanov V

Chemistry Select - 2021, Vol.6. – P. 12890–12894

<https://doi.org/10.1002/slct.202102459>

Q2

«Temperature-Controlled Diastereoselective Doebner/Ugi Tandem Reaction» / Yana Sakhno, Oleksandr Radchenko, Vyacheslav Saraev, Yuliia Shliapkina, Mariia Kaidash, Mariia

	<p>Shyshkina, Svitlana Shishkina, Vladimir Musatov, Sergey Desenko, Valentyn Chebanov</p> <p>SynOpen - 2023; Vol. 07(02); P. 258-266</p> <p>https://doi.org/10.1055/a-2091-7934</p> <p>Q2</p> <p><i>full bibliographic description of each publication; it is mandatory to specify: for articles - the DOI index, for book publications the ISBN index; for articles in publications indexed in Scopus and/or WoS: journals - specify the Q1-Q4 quartile at the time of publication, in non-periodical publications - a link). If there are published reviews of the author's monographs, submit a full bibliographic description of each review and a link to the website of the publication where it was published</i></p>
<p>Other significant scientific achievements</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>None</p> <p><i>inventions, developments, patents; applications, methods, theories; electronic resources, including electronic archives, e-libraries, e-depositories, e-collections, e-catalogs, e-directories, e-databases, etc., which have scientific and practical use outside of Ukraine (the name of the scientific product, role in the development (author, co-author, team member, etc.), time of creation; if <u>available</u>: a link to the website or a scan of the document (screenshot) with information on the use</i></p>
<p>Presentation of scientific results</p>	
<p>Key (plenary) reports at nationwide or international conferences (except for conferences that were always held by correspondence)</p>	<p>None</p> <p><i>the topic of the report, the format of the speech (live, online), the name of the conference/event, the organizer, the city and the date of the event, if <u>available</u>: a link to the program of the event</i></p>
<p>Personal speeches outside of Ukraine on the invitation of higher education institutions, research institutions or professional associations (except CIS countries)</p> <p><i>(no more than 10 positions in the last 10 years)</i></p>	<p>None</p> <p><i>topic of the report (lecture, seminar), name of the institution/organization, city, date, if <u>available</u>: link to the event announcement</i></p>
<p>Reports at scientific conferences (seminars, symposia, etc.)</p> <p><i>(no more than 10 positions in the last 10 years)</i></p>	<p>«Successive formation of 1,2,3-triazole, 1,2,4-triazole and tetrazole rings on the way to heavy metal sorbents»</p> <p>IX international conference in chemistry Kyiv-Toulouse (ICKT-9), 4-9 June 2017 Kyiv (Ukraine) ; P.171</p> <p>http://kyivtoulouse.univ.kiev.ua/conf2017/ICKT-9-abstract-book.pdf</p> <p>«Click reactions and MCR: useful tools for N-rich chelating agents synthesis»</p> <p>Blue Danube Symposium on Heterocyclic Chemistry 2017, 30 August 2017 to 02 September 2017 Johannes Kepler University, Linz, Austria.</p>

	<p>(scan of the document)</p> <p><i>if available: the topic of the report, the name of the conference/event, the organizer, the city and the date of the event, it is mandatory to indicate: a link to the program of the event (collection of theses, deposited work, etc.)</i></p>
<p>Promotion of scientific research</p> <p><i>(no more than 10 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>the author's most important popular scientific publications in print media and online publications, in particular abroad, appearances on all-Ukrainian television and radio channels, expert interviews and comments for international media, etc.; membership in the editorial boards of scientific and popular science publications in magazine or Internet format;</i></p> <p><i>if available: a link to the publication or, accordingly, the official website of the Internet publication.</i></p>
Scientific and organizational activity	
<p>Participation in the organizing committees of scientific events (conferences, seminars, symposia, round tables, panel discussions, etc.)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>Participant of the conferences (scan of the document): 8th International Conference "Chemistry of Nitrogen. containing heterocycles" (CNCH-2018), dedicated to the memory of Professor Valery Orlov, Kharkiv, Ukraine, November 12-16, 2018.</p> <p><i>status in the organizing committee (chairman, co-chairman, coordinator, member, etc.), name of the conference, level (international, all-Ukrainian, regional, etc.), format (live, online, by correspondence), organizing institution, time and venue, if available: link to the program of the scientific event</i></p>
<p>Participation in editorial boards of periodical scientific publications (in which mandatory anonymous peer review is carried out)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>indicate status in the editorial board (chief editor, responsible editor, member, etc.), full name of the publication, academic status of the publication (indexed in scientometric databases, belongs to categories A-B, etc.), term of participation in the editorial board, if available: link to the official website with editorial staff</i></p>
<p>Scientific editing (arrangement) of scientific publications</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>(collection of scientific works, collective monograph, collection of historical documents, anthology, academic dictionary, encyclopedia, etc., in addition to theses and materials of conferences, etc., which were recommended for publication by the academic council of a scientific institution or higher education institution; scientific editing of independent academic Internet resources that publish results of scientific research); mandatory to provide: bibliographic description of the publication, including the ISBN index, a link to the official website with the editorial team</i></p>
Teaching activity	

<p>The main author's educational courses at Higher Education Institutions (developed on the basis of own research)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>name of the course, level (I-III level), full name of the higher education institution, teaching time, duration of the course in ac. hours, mandatory to specify: a link to the official website of the higher education institution</i></p>
<p>The main author's methodical developments (textbooks, manuals, methodical materials, educational programs for higher education)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>full bibliographic description, if <u>available</u>: a link to the official website</i></p>
<p>Supervision of scientific works (scientific supervision or consulting of dissertation studies that have been successfully defended)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>searcher's full name, dissertation topic, specialty, place and date of defense, if <u>available</u>: a link to the announcement of the defense.</i></p>
<p>Expert activity</p>	
<p>Membership in specialized academic councils for dissertation defense</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>board code, specialty, institution, term of office, if <u>available</u>: link to the official website</i></p>
<p>Participation in expert councils (supervisory, advisory, expert or other councils of scientific, educational or research institutions, enterprises, cultural institutions, scientific publishing</p>	<p><i>None</i></p>

<p>houses outside the main place of work)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>the name of the expert body, the name of the institution/organization, the term of performance of duties, <u>if available</u>: link to the official website</i></p>
<p>Participation in calls commissions (jury) (all-Ukrainian or international calls, Olympiads, tournaments of research projects, scientific papers, etc.)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>status, name of the competition, organizer, term of office; <u>if available</u>: a link to the official website</i></p>
<p>Scientific and expert activities for authorities (scientific and expert conclusions, comments, conclusions, etc. made at the request or order of authorities and self-government bodies, state structures, institutions, etc.)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>data on the number and concise content of scientific and expert documents, indicating (for each document) the state authorities in whose interests and on whose order they were prepared</i></p>
<p>Scientific review of publications and projects* (number of anonymous reviews of manuscripts of scientific works submitted for publication in international scientific journals over the past 5 years; author reviews of scientific publications published in specialized periodicals)</p> <p><i>(no more than 5 positions in the last 5 years)</i></p>	<p>"Chemistry of Heterocyclic Compounds"</p> <p><i>if available: copies of reviewer and/or expert certificates or link to WoS profile, links to published author reviews</i></p>

Honors and awards	
<p>Honorary titles and statuses (honored worker of science and technology, academician, doctor honoris causa, etc.)</p>	<p>None</p> <p><i>a full description of the rank, by whom and when it was awarded, <u>if available</u>: a scan of the certificate or a link to the official website</i></p>
<p>Laureate of a prize (awards, honors) of the international or national level, awarded on a competitive basis</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>None</p> <p><i>the full name of the award (prizes, honors), the founder, when and for what it was awarded, it is <u>if available</u>: a scan of the certificate or a link to the official website</i></p>
<p>Awards or honors for scientific achievements (from institutions, departments, authorities and local self-government bodies, etc.)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>Certificate of Honor from the Presidium of the National Academy of Sciences of Ukraine (2023)</p> <p>(scan of the document)</p> <p><i>the full name of the award (honors), by whom, when and for what it was awarded, if <u>available</u>: a scan of the certificate or a link to the official website</i></p>
Improvement of scientific qualification	
<p>Additional professional schools (trainings, summer schools, educational seminars, master classes, courses, etc., to acquire relevant scientific knowledge, skills and abilities)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>«European Chemistry School for Ukrainians» (scan of the document) Basque Center for Materials, Applications & Nanostructures (SPAIN) and Adam Mickiewicz University, Poznań (POLAND) (04.05.2023 - 13.07.2023)</p> <p>«The tandem of chemical and pharmaceutical science as a basic platform and a key to the development of innovative medicines» (scan of the document) Department of Chemistry of the National Academy of Sciences of Ukraine, Coordination Council on the problem "Scientific basis of drug development", Institute of Organic Chemistry, National University of Pharmacy (27.11.2023)</p> <p>«Training course. Liquid chromatograph Mass Spectrometer LCMS-2020» «ShimUkraine LLC» (03.12.2021) (scan of the document)</p> <p><i>name of higher school, organizer, time and place, type of certificate of successful completion; <u>if available</u>: a scan of the certificate or a link to the official website</i></p>

<p>Scientific internships abroad (lasting more than 2 months, in higher education institutions or research institutions, except correspondence and with the exception of CIS countries)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>"Improved methods for purification of substances. Accelerated Chromatographic Isolation (ACI) Biotage®"</i></p> <p><i>"TBD-Biodiscovery, Tartu, Estonia; 29.01.2018-29.09.2018"</i></p> <p>(scan of the document)</p> <p><i>"Application of the large-scale preparative HPLC system LC-20AP "Shimadzu®" for highly efficient semi-preparative, analytical and semi-micro-separation"</i></p> <p><i>"TBD-Biodiscovery, Tartu, Estonia; 09.03.2020-16.10.2020"</i></p> <p>(scan of the document)</p> <p><i>full name of the internship (exchange) program, institution, city and country, exact dates of stay; if <u>available</u>: a scan of the certificate or a link to the official website</i></p>
<p>Membership in independent scientific organizations (non-institutional professional academic associations, societies, unions, unions of researchers, except trade unions)</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p> <p><i>full name of the organization in the original language, region of activity (all-Ukrainian, international, European, etc.), status in the organization (member, member of the governing body, chairman, etc.), period of participation or performance of functions; if <u>available</u>: confirmation of membership (a copy of the document on the payment of membership fees, a link to the official website with information about membership).</i></p>
<p>Additional information on other important scientific achievements, qualifications, competences, or types of scientific activity that are significant for the implementation of the submitted research/development project</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p><i>None</i></p>
<p>Foreign languages skills*</p>	<p>English (Intermediate, confirmed by the presence of 12 works published in English in publications included in the Scopus or Web of Science databases and having an ISSN number confirmed on the website of the International Periodicals Registration Center), as well as an internship abroad (2018 and 2020).</p> <p><i>specify the language and level of proficiency; mandatory to provide: a certificate or other proof of ownership</i></p>

УДК 542.9 + 547.1
№ держреєстрації: 0119U100727

НАЦІОНАЛЬНА АКАДЕМІЯ НАУК УКРАЇНИ
ДЕРЖАВНА НАУКОВА УСТАНОВА «НАУКОВО-ТЕХНОЛОГІЧНИЙ
КОМПЛЕКС «ІНСТИТУТ МОНОКРИСТАЛІВ»

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Затверджую
Заступник генерального директора
з наукової роботи
ДНУ НТК "Інститут монокристалів"
НАН України
к.х.н., с.д.

К.М. Бєліков
28 грудня 2021 р.

ЗВІТ
про науково-дослідну роботу
«Створення сучасних основ одержання та аналізу речовин і компонентів
матеріалів фармацевтичного призначення»
(шифр – «Синтан»)

Керівник НДР
перший заступник генерального директора
з наукової роботи,
д.х.н., проф., чл.-кор. НАН України

В.А. Чебанов

2021 г.

Рукопис завершений 23 грудня 2021 р.

Результати цієї роботи розглянуто Вченою радою
ДНУ НТК ІМК НАНУ «24» грудня 2021 р., протокол № 12

Гладков С. С. наук. співробітник, к.х.н.		Розд. 1
Дьяченко В. В. наук. співробітник, к.х.н.		Розд. 6
Жикол О. А. наук. співроб., к.х.н.		Розд. 2, 6
Збруєв О. І. наук. співробітник, к.х.н.		Розд. 3
Зінченко І. О. наук. співробітник, к.фарм.н.		Розд. 4
Коновалова І. С. наук. співробітник, к.х.н.		Розд. 6, 7
Ляпунов О. М. наук. співробітник, к.фарм.н.		Розд. 4
Ляпунова А. М. наук. співробітник, к.фарм.н.		Розд. 4
Мурликін М. В. науковий співробітник к.х.н.		Розд. 1
Павловська Т. Л. наук. співробітник, к.х.н.		Розд. 2
Сараєв В. С. наук. співробітник, к.х.н.		Розд. 1, 4
Софронів Д. С., наук. співробітник, к.х.н.		Розд. 4
Ткаченко І. Г. наук. співробітник, к.х.н.		Розд. 1, 7
Химченко С. В. наук. співробітник, к.х.н.		Розд. 5

УДК 542.9 + 547.1
№ держреєстрації 0117U001280

НАЦІОНАЛЬНА АКАДЕМІЯ НАУК УКРАЇНИ
ДЕРЖАВНА НАУКОВА УСТАНОВА «НАУКОВО-ТЕХНОЛОГІЧНИЙ
КОМПЛЕКС «ІНСТИТУТ МОНОКРИСТАЛІВ»

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к.х.н., с.д.

К.М. Бєліков
28 грудня 2021 р.

ЗВІТ
про науково-дослідну роботу
«Розвиток методології «сік»-хімії для створення компонентів новітніх
комплексуютьовуючих матеріалів»
(шифр – «Гель»)

Керівник НДР
перший заступник генерального директора
з наукової роботи,
д.х.н., проф., чл.-кор. НАН України

В.А. Чебанов

2021 г.

Рукопис завершений 24 грудня 2021 р.

Результати цієї роботи розглянуто Вченою радою
ДНУ НТК ІМК НАНУ «24» грудня 2021 р., протокол № 12

Сараєв В. С. наук. співробітник, к.х.н.		Розд. 2
Збруєв О. І. наук. співробітник, к.х.н.		Розд. 2
Химченко С. В. наук. співробітник, к.х.н.		Розд. 5
Шейна Т. В. наук. співробітник, к.х.н.		Розд. 5
Андрющенко Г. Ю. мол. наук. співробітник, к.т.н.		Розд. 5
Буніна З.Ю. мол. наук. співробітник, к.х.н.		Розд. 5
Звягін Є. М. мол. наук. співробітник, к.х.н.		Розд. 1, 2, 5, 6
Морозова А. Д. мол. наук. співробітник, к.х.н.		Розд. 2
Омельченко І. В. мол. наук. співробітник, к.х.н.		Розд. 4
Семененко О. М. мол. наук. співробітник, к.х.н.		Розд. 1, 2, 5, 6
Гришина О. В. мол. наук. співробітник		Розд. 5
Гудзенко Л. В. мол. наук. співробітник		Розд. 5
Загребський П. М. мол. наук. співробітник		Розд. 5
Кулик К.В. мол. наук. співробітник		Розд. 5, 6
Красовська М. В. в.о. мол. наук. співробітника		Розд. 4

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НАЦІОНАЛЬНА АКАДЕМІЯ НАУК УКРАЇНИ
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КОМПЛЕКС «ІНСТИТУТ МОНОКРИСТАЛІВ»

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НАН України
к.х.н., с.д.

К.М. Бєліков

27 грудня 2018 р.

ЗВІТ
про науково-дослідну роботу
«Розробка методів синтезу нових хемотипів лікоподібних азотовмісних
гетероциклічних сполук»
(шифр – "Хемотип")

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IEVGEN M. ZVIAGIN

CLICK REACTIONS AND MCR: USEFUL TOOLS FOR N-RICH CHELATING AGENTS SYNTHESIS

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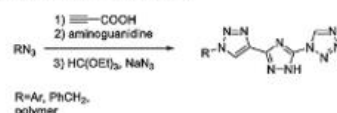
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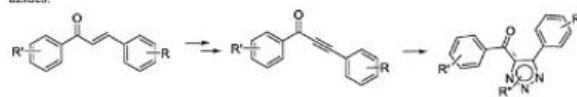
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The twelve green chemistry principles [1], which are within hearing nowadays, imply only prevention of further waste exposure, but not an escape from current pollution situation. At the same time, some fields of industry can hardly be changed to follow all the green chemistry principles, nuclear power industry among them. Nuclear wastes may include radioactive heavy metal ions, and there is always a chance of an accident and, as a result, inevitable pollution of soils and waters. The catastrophes of Chornobyl and Fukushima showed great importance of development of a material, eligible for extracting heavy metal ions from the environment in the case of a disaster and monitoring their content for preventing further crises.

Such polyazoles as triazoles and tetrazoles are known for being able to form stable complexes with heavy metals, thus the materials on the bases of such compounds can serve as complexones for metal ions. Following the scheme below, we managed to synthesize substituted 1,2,3-triazolyl-1,2,4-triazolyltetrazoles and measure qualitative characteristics of their complexation with some d- and f-block metals.



Chalcone-derived alkynes are also suitable to undergo the click reaction with organic azides.



[1] P. Anastas, J. Warner, *Green Chemistry: Theory and Practice*, New York: Oxford University Press, 1998, 152 p.

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This is to certify that

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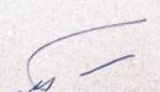
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