



IVCHENKO VIKTORIIA

Date of birth 1 JANUARY 1976

Citizenship Ukrainian

Contact information *

Business address - Sumy National Agrarian University, 160,
G. Kondratieva Str., Sumy, Sumy district (Ukraine), 40021
<http://snau.edu.ua/>

Phone +380977722364

E-mail – ivchenkovd@gmail.com

<https://agro.snau.edu.ua/en/chairs/department-of-biotechnology-and-phytopharmacology/staff-of-the-department/ivchenko-viktoriia/>

Personal profiles in scientometric databases*

ID Scopus - : [57204177022](https://orcid.org/0000-0002-5985-9712)

ID Web of Science - [T-7041-2019](https://orcid.org/0000-0002-5985-9712)

ORCID – <https://orcid.org/0000-0002-5985-9712>

Scholar google
https://scholar.google.com/citations?view_op=list_works&hl=uk&user=IyNZIqwAAAAJ

Education *

1. Sumy State Pedagogical Institute (meanwhile Sumy State Pedagogical University) (Ukraine), 1992-1997, Specialist, speciality: Biology and Chemistry. Diploma series ACI No. 97004642





Academic degree *	<i>Candidate (Doctor of Philosophy) of Technical Sciences from 26 September 2012, Sumy State University, Sumy (Ukraine), 21.06.01- Environmental Safety, DK № 009220</i>
Academic title *	Associate Professor of the Department of Therapy, Pharmacology, Clinical Diagnostics and Chemistry, 5 March 2019, AD № 002013
Professional work experience *	September 2023 to date Ass. Professor of the Department of Biotechnology and Chemistry <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva Str., 40021, Sumy (Ukraine)</i> September 2012 August 2023 Ass. Professor of the Department of Therapy, Pharmacology, Clinical Diagnostics and Chemistry, <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva str., 40021, Sumy (Ukraine)</i> September 2007 August 2012 Senior Researcher of Electron microscopes laboratory, <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva str., 40021, Sumy (Ukraine)</i> September 2006 - August 2007 Senior Lecturer of the Department of Chemistry <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva str., 40021, Sumy (Ukraine)</i> September 2001 - August 2006 Assistant of the Department of Chemistry <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva str., 40021, Sumy (Ukraine)</i> September 1997 - August 2001 Engineer of the Scientific Research Sector <i>Sumy National Agrarian University</i> <i>160, G. Kondratieva str., 40021, Sumy (Ukraine)</i>

Main research activities	
Participation in collective research projects <i>(no more than 5 positions in the last 10 years)</i>	1) "Formation of professional competence of future specialists in the agricultural sector when studying chemical disciplines", 2015-2020 (state registration number 0116U007235), responsible executor 2) "Study of morphometric features of the structure and elemental composition of animal hair using scanning electron





microscopy", 2016-2022 (state registration number 0118U006178), leader.

3) "Study of the features of the formation of building ceramics with high performance properties", 2015-2020 (state registration number 0118U100073), responsible executor

4) "Study of the relationship between the characteristics of ceramic masses with high performance properties of building ceramics", 2021. -2026 (state registration number 0121U110466), co-leader

5) "Study of building structures of industrial and agricultural buildings and their protection from aggressive environments", 2021-2026 (state registration number 0121U112107), executor

Main scientific achievements

Published scientific papers*

(no more than 10 items for the last 10 years)

1. Y. Husak , O. Solodovnyk, A. Yanovska , Y. Kozik, I. Liubchak, O. Mishchenko, V. Ivchenko, Y. Zinchenko, V. Kuznetsov, M. Pogorielov. Degradation and In Vivo Response of Hydroxyapatite-Coated Mg Alloy // Coatings 2018, 8(11), 375; <https://doi.org/10.3390/coatings8110375>
2. L.M. Rozhdestvenska à , O.I. V'yunov à , L.N. Ponomarova b , A.V. Bilduykevich c , T.V. Plisko c , Y.G. Zmievskii d , V.D. Ivchenko Modification of ultrafiltration polymeric membranes with dispersed oxide nanoparticles // Voprosy khimii i khimicheskoi tekhnologii, 2020, No. 3, pp. 154-161 DOI: 10.32434/0321-4095-2020-130-3-154-161
3. Zaichuk, A.V., Amelina, A.A., Hordieiev, Y.S., Frolova, L. and Ivchenko, V.D. (2021), "Synthesis and characteristics of aluminate spinel ceramic pigments based on spent aluminium-cobalt-molybdenum catalyst", Pigment & Resin Technology, Vol. 50 No. 6, pp. 515-522. <https://doi.org/10.1108/PRT-08-2020-0081>
4. Zaichuk, A., Amelina, A., Kalishenko, Y. et al. Aspects of development and properties of densely sintered of ultra-high-frequency radio-transparent ceramics of cordierite composition .J. Korean Ceram. Soc. 58, 483–494 (2021). <https://doi.org/10.1007/s43207-021-00125-5>
5. Shkromada, O., Ivchenko, V., Chivanov, V., Tsyhanenko, L., Tsyhanenko, H., Moskalenko, V., Kyrchata, I., Shersheniuk, O., Litsman, Y. Defining patterns in the influence exerted by the interrelated biochemical corrosion on concrete building structures under the conditions of a chemical enterprise // Eastern-European Journal of Enterprise Technologies 2 (6 (110)), 2021, pp. 52–60. doi: <https://doi.org/10.15587/1729-4061.2021.226587>
6. Shkromada, O., Pikhtirova, A., Chivanov, V., Ivchenko, V., Sribniak, N., Shvets, O., & Litsman, Y. (2022). Detection of the synergetic influence of chemical and microbiological factors on





the properties of concrete constructions at chemical plants during the long-term service. EUREKA: Physics and Engineering, (4), 114-126. <https://doi.org/10.21303/2461-4262.2022.002485>

7. Khomenko, O., Sribniak, N., Ivchenko, V., Hretsai, S., Teliushchenko, I., Halushka, S. "Peculiar Features of Formation of the Phase Composition of Black Clinker Ceramics", Periodica Polytechnica Chemical Engineering, 2023. <https://doi.org/10.3311/PPch.21037>

8. Khomenko, O., Ivchenko, V., Boginska, L., Fomenko, G. Protective coatings for construction ceramics as factor of increasing energy efficiency and operational properties of products, *Engineering for Rural Development*, 2024, 23, pp. 375–380

9. Khomenko O., Sribniak N., Ivchenko V., Ujma A., Pomada M. Thermal conductivity study of different engobed ceramic brick, *Cerâmica*, 2024, v.70:eZAOY1947, <http://dx.doi.org/10.1590/ZAOY1947>

10. Samilyk, M., Ivchenko, V., Nosyk, M., Tischenko, V., Ryzhkova, T., Hnoievyi, L., Petrenko, A., & Hrinchenko, D. (2025). Devising a technology for manufacturing wine from mulberry using osmotic dehydration. *Eastern-European Journal of Enterprise Technologies*, 3(11 (135)), 82–88. <https://doi.org/10.15587/1729-4061.2025.328926>

Other significant scientific achievements

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

V.O. Serdiuk, K.O. Zaytseva, V.I. Sklabinsky, V.D. Ivchenko, L.M. Ponomarova. Laboratory and industrial testing of membrane electrochemical devices for purification and regeneration of chromiumcontaining galvanic solutions // Колективна монографія «Membrane and Sorption Materials and Technologies: Present and Future» - під ред. докт. хім. наук Ю. С. Дзязько, канд. хім. наук Т.В. Пліско, М.О. Чабан . K: ArtOK publisher, 2018. — 88 с.

Pikhtirova, A. V., Shkromada, O. I., Pecka-Kielb, E., Kamratska, O. I., Ivchenko, V. D., & Kolomiets, I. A. (2024). The prospect of overcoming antibiotic resistance using plant agro-wastes – systematic review. *Ukrainian Journal of Veterinary and Agricultural Sciences*, 7(3), 31–40.

Presentation of scientific results

Keynote (plenary) presentations at conferences of national or international level (except for conferences that have always been held in absentia)

1. Kalinkevich, O., Kalinkevich, A., Karpenko, O., Ivchenko, V., Daskalova, A. Chitosan Film Surface Nanotexturing by Femtosecond Laser Treatment/ Proceedings of the 2023 IEEE 13th International Conference Nanomaterials: Applications and Properties, NAP 2023, 2023, pp. IMT131–IMT135

2. Khomenko O., Ivchenko V. Sribniak N., Fomenko G. Protective coatings for construction ceramics as a factor of increasing energy efficiency and operational properties of





products// 23rd International Scientific Conference Engineering for Rural Development 22.-24.05.2024. Jelgava, LATVIA, 375-380

3. Ivchenko, V., Shkromada, O., & Shvets, O. Scanning electron microscopy and X-ray microanalysis of the condition of concrete structures of a chemical enterprise with long-term corrosion in a sulfate environment. , 2022: PROCEEDINGS OF THE 6TH ANNUAL CONFERENCE: Technology Transfer: Fundamental Principles and Innovative Technical Solutions (29 November 2022, Tallinn, Estonia) P. 3-6.

4. Yevgeniia Husak, Viktoriia Holubnych, Viktoriia Korniienko, Aziza Yusupova, Petro Myronov, Anton Savchenko, Viktoriia Ivchenko Morphological Changes in Gram-negative Microorganisms Treated with Silver and Copper Nanoparticles // 9th International Conference on Nanomaterials: Applications & Properties '2019 Odesa, Ukraine, 15-20 Sept. 2019 - P. 02BA26- 02BA27 DOI: 10.1007/978-981-15-3996-1_5

5. Liudmyla M. Rozhdestvenska, Liudmyla N. Ponomarova, Alexander V. Bilduykevich, Oleg I. V'yunov, Viktoria D. Ivchenko, Yurii G. Zmievskii Composite ultrafiltration membrane incorporated with dispersed oxide nanoparticles// 9th International Conference on Nanomaterials: Applications & Properties '2019 Odesa, Ukraine, 15-20 Sept. 2019 - P. 02NEE07-102NEE07-4 DOI: 10.1007/978-981-15-3996-1_11

Reports at scientific conferences*
(seminars, symposia, etc.)

(no more than 10 items for the last
10 years)

1. Bolshanina S. B., Ivchenko V. D., Pyatyshkina P. D., Razinkova E. E. BIOSORBENT FOR PURIFICATION OF WATER SYSTEMS FROM AMMONIA COMPOUNDS // Collection of materials of the 9th International Scientific and Practical Internet Conference CHEMISTRY, BIOTECHNOLOGY, ECOLOGY AND EDUCATION: (Poltava, May 15-16, 2025). – Poltava, 2025. P. 144-149.

2. Ivchenko V. D., Pyatyshkina P. D., Razinkova E. E., Shimchenko O.P. Application of biological water purification from ammonium in aquaculture systems // "Gonchariv Readings": Materials of the International Scientific and Practical Conference dedicated to the 96th anniversary of the birth of Doctor of Agricultural Sciences, Professor Mykola Dem'yanovich Goncharov (May 23-24, 2025). Sumy, 2025. P. 165-167.

3. Ivchenko V. D., Zhaldak D. S. Biological method of plant protection: effective use of Trichogramma taking into account the timing of application, dosage and influence of environmental factors // "Gonchariv Readings": Materials of the International Scientific and Practical Conference dedicated to the 96th anniversary of the birth of Doctor of Agricultural Sciences, Professor Mykola Dem'yanovich Goncharov (May 23-





- 24, 2025). Sumy, 2025. P. 121 – 123.
4. Ivchenko V. D., Shvets O. G. Development of critical thinking of students during refractometric research of sucrose content in food products / Contemporary problems of biology, ecology and chemistry: Collection of materials of the VII International Scientific and Practical Conference (April 25-27, 2024). – Zaporizhzhia: Printing Center "CopyArt", 2024 – P. 273-276
5. Shvets O. G. Ivchenko V. D. The use of test tasks in the chemical education of students of specialty 162 "Biotechnology and Bioengineering" / Modern trends in chemistry teaching Materials of the X International Conference (March 22-23, 2024) Ivan Franko National University of Lviv <https://chem.lnu.edu.ua/about/departments/conference-chemistry-education/x-mizhnarodna-konferentsiia-suchasni-tendentsii-navchannia-khimii>
6. Shvets O.G., Ivchenko V.D. Formation of research competence of students in the study of chemistry // Materials of the V International Scientific and Practical Conference "Theoretical and Practical Aspects of the Development of Science and Education" Lviv, May 30-31, 2022
7. Ivchenko V.D., Yatsenko V.M. Features of the preparation of sunflower hypocotyl samples (*Helianthus annuus* L.) for research by scanning electron microscopy // Materials of the International Scientific and Practical Conference "GONCHAROV READINGS" dedicated to the 93rd anniversary of the birth of Doctor of Agricultural Sciences, Professor Mykola Demyanovich Goncharov (May 25, 2022), Sumy (electronic resource), 2022. – P. 220-223
8. Shvets O.G., Ivchenko V.D. Formation of scientific and research competence of students when studying chemistry // All-Ukrainian scientific conference "Actual problems of chemistry: research and prospects" (April 15, 2021). Conference materials. – Zhytomyr: Publisher O. O. Evenok, 2021. – P. 366-367
9. S.B. Bolshanina, A.A. Yanovska, I.G. Vorobiova, V.D. Ivchenko, A.G. Ableyev. Adsorption of silver ions by hydroxyapatite-alginate microspheres // Proceedings of Ukrainian Conference with International participation. "Chemistry, Physics and Technology of Surface" – Kyiv, 2018. – P 174.
10. S.B. Bolshanina, V.O. Serdiuk, V. Ivchenko. Membrane regeneration of galvanic solutions / 105th International Congress "Environmental Protection. Energy Saving. Balanced Environmental Management": collection of materials. – Lviv: Lviv Polytechnic Publishing House, 2018. – P. 101.





Main author's training courses
in higher education
institutions (developed on the
basis of own research)

(no more than 5 items for the last 10
years)

1. ORGANIC CHEMISTRY for students of the specialty "Biotechnology and Bioengineering", I level of higher education, Sumy National Agrarian University, 5 ECTS credits (2023-2027) <https://agro.snau.edu.ua/wp-content/uploads/2024/12/%D0%9E%D0%9A-11-%D0%9E%D0%A5-%D0%91%D0%86%D0%9E-24-1.pdf>
2. CHEMISTRY OF NATURAL BIOLOGICALLY ACTIVE COMPOUNDS for students of the specialty "Biotechnology and Bioengineering", II level of higher education, Sumy National Agrarian University, 5 ECTS credits (2024) <https://agro.snau.edu.ua/wp-content/uploads/2025/09/%D0%A1%D0%B8%D0%BB%D0%B0%D0%B1%D1%83%D1%81-%D0%A5%D0%9F%D0%91%D0%90%D0%A1-%D0%BC%D0%B0%D0%B3%D1%96%D1%81%D1%82%D1%80-24.pdf>
3. CHEMISTRY for students of the specialty "Food Technology", I level of higher education, Sumy National Agrarian University, 5 ECTS credits (2024-2028) <https://fht.snau.edu.ua/wp-content/uploads/2024/10/%D0%9E%D0%9A-12-%D0%A5%D1%96%D0%BC%D1%96%D1%8F.pdf>
4. CHEMISTRY for students of the specialty "Construction and Civil Engineering", I level of higher education, Sumy National Agrarian University, 5 ECTS credits (2024-2028) <https://bud.snau.edu.ua/wp-content/uploads/2024/10/%D1%81%D0%B8%D0%BB%D0%B0%D0%B1%D1%83%D1%81-%D1%85%D1%96%D0%BC%D1%96%D1%8F-%D0%9F%D0%A6%D0%91-24.pdf>
5. Instrumental research methods for postgraduate students in the specialty "Agronomy", III level of higher education, Sumy National Agrarian University, 5 ECTS credits (2025) <https://cdn.snau.edu.ua/moodle/course/view.php?id=6115>

Major author's methodological
developments (textbooks,
manuals, teaching materials,
curricula for higher education)
(no more than 5 items for the
last 10 years)

1. Chemistry. Textbook for foreign students of the preparatory department. Shvets O.G., Ivchenko V.D., Ivanova O.I. Sumy: SNAU, 2020, 120 p.
2. Chemistry: textbook. (for 1st year students of non-chemical specialties) / O.G. Shvets, V.D. Ivchenko, L.M. Ponomareva. – Sumy, 2025. – 330 p.
3. Ivchenko V.D., Shvets O.G. Chemistry: Lecture notes for 1st year students of the specialty: 192 – Construction and civil engineering of the educational degree "bachelor" -





- Sumy: Sumy National Agrarian University, - 2024. – 54 p.
4. Shvets O.G., Ivchenko V.D. Chemistry. Lecture notes for 1st year students of the full-time form of study of the Faculty of Agrotechnology and Environmental Management of the specialty 202 Plant Protection and Quarantine. – Sumy, – 2025. – 151 p.
 5. Ivchenko V.D., Shvets O.G., Bolshanina S.B., CHEMISTRY. Lecture notes for 1st year students of the specialty 202 “Plant Protection” of the educational degree “junior bachelor” – Sumy: Sumy National Agrarian University, – 2025. – 58 p.
 6. Shvets O.G., Ivchenko V.D. Physical and colloidal chemistry. Methodological instructions for conducting laboratory and practical classes. – Sumy: Sumy National Agrarian University, 2023. 65 p. Protocol No. 6 dated 12.2023
 7. Ivchenko V.D., Shvets O.G. Chemistry. Methodological instructions for conducting laboratory work for 1st year students of specialty 181 “Food Technologies” of the Bachelor’s degree. Protocol No. 8 dated 02.20.2024
 8. Ivchenko V.D., Shvets O.G. Chemistry: Methodological instructions for conducting practical classes for 1st year students of specialty 192 “Construction and Civil Engineering” of the Bachelor’s degree. – Sumy: Sumy National Agrarian University, – 2024. – 40 p. Protocol No. 12 dated 05/20/2024
 9. Shvets O.G., Ivchenko V.D. Chemistry. Methodological instructions for conducting laboratory and practical classes for 1st year students of specialties 205 "Forestry" and 206 "Horticulture and Park Management" of the educational degree "Bachelor". Sumy: Sumy National Agrarian University, - 2024. - 50 s Protocol No. 12 dated 05/20/2024
 10. Ivchenko V.D., Shvets O.G. Biotechnologies in food chemistry. Methodological instructions for laboratory and practical classes for students of specialty 162 “Biotechnologies and bioengineering” with the degree of “bachelor” – Sumy: Sumy National Agrarian University, – 2025. – 19 p.

Honours and awards





Awards or distinctions for scientific achievements (from institutions, departments, authorities and local governments, etc.)

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

1. Acknowledgement of the Rector of Sumy NAU (Sumy 2017) for high professionalism, implementation of innovative research methods

Improving scientific qualifications

Additional professional training (trainings, summer schools, educational seminars, workshops, courses, etc. to obtain relevant scientific knowledge, skills and abilities)

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

1. Certificate SS 00493706/017647-22 issued by the National University of Life Resources and Environmental Management of Ukraine 10/31/2022-11/11/2022 Scientific and pedagogical workers: Development of innovative professional competencies in pedagogical activity (60 hours, 2.0 ECTS)

2. Certificate EC No. 5342/2020 Instytut Badawczo-Rozwojowy Lubelskiego Parku, Lublin, Republic of Poland March 15-22, 2021 "Online learning as a new form of modern education using the example of Googlemeet and Google classroom platforms" (45 hours, 1.5 ECTS)

3. Certificate EC No. 4636/2021 Instytut Badawczo - Rozwojowy Lubelskiego Parku, Lublin, Republic of Poland February 15-22 2021 "Distance learning" tools on the example of the Zoom and Moodle platforms" (45 hours, 1.5 ECTS)

4. Certificate ESN^o16914 Instytut Badawczo- Rozwojowy Lubelskiego Parku, Lublin, Republic of Poland October 23-30, 2023 "Academic integrity and time management in the preparation of scientific papers: foreign and domestic experience" (45 hours 1.5 ECTS)

5. Certificate ESN^o21877 Instytut Badawczo- Rozwojowy Lubelskiego Parku, Lublin, Republic of Poland November 28 - December 7, 2024 "INTERNATIONAL EXPERIENCE OF USING ARTIFICIAL INTELLIGENCE IN THE EDUCATIONAL PROCESS (PART I)", (45 hours 1.5 ECTS)

Membership in independent scientific organisations (non-institutional professional academic associations, societies, unions, unions of researchers, except for trade unions)

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

Member of the public organisation Ukrainian Association of Educational Researchers N^o 380/2023 від 1.01.2023





Sumy National
Agrarian University

**Knowledge of foreign
languages**

English, level B2, Certificate of attainment in modern
languages, Candidate №000897319, Date: 13.07.2017



Faculty of agrotechnologies and
natural resource management
SNAU