

# CURRICULUM VITAE

Last name, First name: **IVANCHENKO, ALEXANDER**

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ORCID: <https://orcid.org/0000-0003-4380-268X>

Languages: Ukrainian, Russian, English

Date of birth: August 27, 1976



## Current positions

- |                         |   |
|-------------------------|---|
| 2019, Sep. – Now        | Associate Professor, Department of Applied Radiophysics, Electronics and Nanomaterials, Faculty of Physics, Electronics and Computer Systems, Oles Honchar Dnipro National University                                   |
| 2014, Jan. – 2019, Sep. | Associate Professor, Department of Radio Electronics, Faculty of Physics, Electronics and Computer Systems, Oles Honchar Dnipropetrovsk National University   |
| 2013, Sep. – 2014, Jan. | Senior Lecturer, Department of Radio Electronics, Faculty of Physics, Electronics and Computer Systems, Oles Honchar Dnipropetrovsk National University   |
| 2001, Sep. – 2013, Sep. | Lecturer of Department of <b>Computer Science and Applied Mathematics</b> , Faculty of Technology of Macromolecular Compounds, State Higher Educational Institution "Ukrainian State University of Chemical Technology" |

## Education

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|-------------|--|
| 2016        | Academic title <b>Associate Professor</b> of Department of Radioelectronics  |
| 2013        | Academic degree <b>Ph.D.</b> (physics and mathematics)   |
| 1998 – 2001 | Post graduate course at Department of Radioelectronics, Faculty of Radiophysics, Oles Honchar Dnipropetrovsk National University |
| 1993-1998   | Graduate course (diploma with honors) at Faculty of Radiophysics of Dnepropetrovsk State University                              |

## Research work

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|-----------|--|
| 2018-2020 | Leading Researcher of Energy Research Institute of Oles Honchar Dnipro National University |
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## Certificates

2022.04	Campster basics of Python programming
2022.06	Campster English - level A2
2022.04	Training course on the program "Modern information technologies in the educational process of higher education" for scientific and pedagogical and pedagogical workers of Oles Honchar Dnipro National University
2022.04	Training course on the program "Professional activity in higher education: methods, art, skill" for scientific and pedagogical and pedagogical workers of Oles Honchar Dnipro National University
2022.05	Internship at Department of Information Technology and Computer Engineering of National Technical University "Dnipro Polytechnic"

## Professional Skills

- 20 years of experience in teaching computer disciplines
- Python, Assembler, HTML, CSS, SQL, Git, Figma, Turbo Pascal, Delphi, Visual Basic, Fortran, Access, Matlab, Mathcad, Excel (see **Co-author of educational and methodological works**)
- Simulation of physical processes (25 years) with implementation in different programming languages and using math software (see articles from **List of some publications**)
- 15 years of experience of technical support of computers, the Internet and local computer network (including the hardware and software)
- Excellent written English (see articles from **List of some publications**)

## Co-author of educational and methodological works (I conducted classes in the relevant disciplines using these materials)

- **Selected sections of computational mathematics in the problems of micro- and nanosystem engineering: a study guide. Kremenchuk: PP Shcherbatykh O.V., 2021, 270 p.**
- **Fundamentals of microprocessor technology: a textbook. D.: Publishing House of Dnipropetr. National University, 2015, 256 p.**
- Methodical instructions for performing laboratory work for students of I-III courses of technological and mechanical specialties (Word, Delphi). Dnipropetrovsk: DVNZ UDHTU, 2013, 55 p.
- Methodical instructions for performing laboratory work from the course "ACCESS 2000 DATABASES" for students of economic specialties. Dnipropetrovsk: DVNZ UDHTU, 2013, 29 p.
- Methodical instructions for performing laboratory work on programming in the Delphi environment with tasks of various levels of complexity for students of all majors. Dnipropetrovsk: DVNZ UDHTU, 2012, 92 p.
- Methodological guidelines for preparing for the test No.2 from the course "Computational mathematics, programming and calculations on a computer": for students of I-II courses of technological and mechanical specialties of correspondence education. Dnipropetrovsk: DVNZ UDHTU, 2010, 38 p.
- Methodical instructions for preparing for the performance of control paper No. 1 from the course "Computational mathematics, programming and calculations on a computer" for students of the I-II

courses of technological and mechanical specialties of correspondence education. Dnipropetrovsk: DVNZ UDHTU, 2010, 52 p.

- Methodical guidelines. ACCESS databases. Theoretical foundations for students of economic specialties. Part 2. Dnipropetrovsk: DVNZ UDHTU, 2010, 28 p.
- Methodical guidelines. ACCESS databases. Theoretical foundations for students of economic specialties. Part 1. Dnipropetrovsk: DVNZ UDHTU, 2010, 31 p.
- Methodical guidelines. Laboratory workshop on databases using Microsoft Access as an example. Dnipropetrovsk: DVNZ UDHTU, 2009, 59 p.
- Methodical instructions for performing laboratory work on computational mathematics in the MATHCAD system for students of all majors. Dnipropetrovsk: DVNZ UDHTU, 2009, 56 p.
- Methodical instructions for performing laboratory work from the course "ACCESS DATABASES" for students of economic specialties. Dnipropetrovsk: DVNZ UDHTU, 2009, 28 p.
- Methodical instructions for the performance of control paper No. 1 from the course "Computational mathematics, programming and calculations on a computer" for students of the I-II courses of technological and mechanical specialties of the correspondence form of education. Dnipropetrovsk: DVNZ UDHTU, 2009, 50 p.
- Methodological instructions for the performance of control paper No. 2 from the course "Computational mathematics, programming and calculations on a computer" for students of technological and mechanical specialties of correspondence education. Dnipropetrovsk: DVNZ UDHTU, 2007, 40 p.
- Laboratory workshop on programming in the Delphi environment for students of all majors. Dnipropetrovsk: DVNZ UDHTU, 2005, 45 p.
- Laboratory workshop on programming in the Visual Basic environment for students of the I-II courses of technological specialties. Dnipropetrovsk: DVNZ UDHTU, 2004, 52 p.

## Personal information

Personal and business qualities: desire to work and develop, result-oriented, punctuality, responsibility, attentiveness, decency, purposefulness. Hobbies: philosophy, walking, automotive technology.

Author and co-author of **more than 100 scientific and educational works**, including textbook, study guide, four monographs, patent for an invention and five utility models, a specialist in programming, mathematics, in particular numerical methods, statistics, physics, electronics, and also in the field of modeling physical processes.

## List of some publications

1. Prokofiev T.A., Ivanchenko A.V. Effect of dislocation hindering during plastic deformation on the photoluminescence of Mn<sup>2+</sup> ions in ZnS single crystals. **Ukrainian Journal of Physics**. 2022. Vol. 67, No. 3. P. 202-208. DOI: [10.15407/ujpe67.3.202](https://doi.org/10.15407/ujpe67.3.202)
2. Ivanchenko A.V., Tonkoshkur A.S. Application of a polymer nanocomposite with carbon filler to limit overvoltages in a photovoltaic element. **Journal of Advanced Dielectrics**. 2020. Vol. 10. P. 2050020 (7 pages). DOI: [10.1142/S2010135X20500204](https://doi.org/10.1142/S2010135X20500204)
3. Prokofiev T.A., Ivanchenko A.V. Temperature dependences of Mn<sup>2+</sup> photoluminescence with different local surroundings in ZnS single crystals. **Journal of Applied Spectroscopy**. 2020. Vol. 87. No. 4. P. 621-628. DOI: [10.1007/s10812-020-01045-8](https://doi.org/10.1007/s10812-020-01045-8)

4. Tonkoshkur, A. S., Ivanchenko A. V. Modeling of electrical characteristics of photovoltaic solar arrays with protection against current overloads based on PolySwitch elements. **Multidiscipline Modeling in Materials and Structures**. 2020. Vol. 16. No. 3, P. 425-438. DOI: [10.1108/MMMS-01-2019-0022](https://doi.org/10.1108/MMMS-01-2019-0022)
5. Tonkoshkur A.S., Ivanchenko A.V. Electrical properties of structures based on varistor ceramics and polymer nanocomposites with carbon filler. **Journal of Advanced Dielectrics**. 2019. Vol. 9, P. 1950023 (6 pages). DOI: [10.1142/S2010135X19500231](https://doi.org/10.1142/S2010135X19500231)
6. Prokofiev T.A., Ivanchenko A.V., Gnatushenko V.V. Luminescent analysis of ZnS:Mn single-crystal lattice changes during plastic deformation. **Journal of Applied Spectroscopy**. 2019. Vol. 85. No. 489. P. 213-219. DOI: [10.1007/s10812-019-00802-8](https://doi.org/10.1007/s10812-019-00802-8)
7. Tonkoshkur A.S., Glot A.B., Ivanchenko A.V. Basic models in dielectric spectroscopy of heterogeneous materials with semiconductor inclusions. **Multidiscipline Modeling in Materials and Structures**. 2017. Vol. 13, No. 1, P. 36-57. DOI: [10.1108/MMMS-08-2016-0037](https://doi.org/10.1108/MMMS-08-2016-0037)
8. Tonkoshkur A.S., Ivanchenko A.V. High-frequency capacitance-voltage characteristics of the heterogeneous structure based on the model of spherical semiconductor particles in a dielectric. **Journal of Advanced Dielectrics**. 2019. Vol. 6, No. 3. 1650020 (8 pages) DOI: [10.1142/S2010135X1650020X](https://doi.org/10.1142/S2010135X1650020X)
9. Tonkoshkur A.S., Ivanchenko A.V. The effect of negative capacitance in varistor structure on the basis of its models with voltage drop on the intergranular interlayer. **Multidiscipline Modeling in Materials and Structures**. 2015. Vol. 11, No. 4. P. 598-615. DOI: [10.1108/MMMS-04-2015-0021](https://doi.org/10.1108/MMMS-04-2015-0021)
10. Tonkoshkur A.S., Ivanchenko A.V., Makarov V.O. Desorption thermal degradation model of zinc oxide ceramics. **Journal of the European Ceramic Society**. 2004. Vol. 24. P. 3709-3712. DOI: [10.1016/j.jeurceramsoc.2003.12.004](https://doi.org/10.1016/j.jeurceramsoc.2003.12.004)

### **Some of my colleagues, who can attest to my scientific experience**

Prof. Kovalenko Alexander, head of Department of Applied Radiophysics, Electronics and Nanomaterials, Oles Honchar Dnipro National University, [koval@mail.dsu.dp.ua](mailto:koval@mail.dsu.dp.ua)

Prof. Tonkoshkur Alexander, professor of Department of Electronic Computing Machinery, Oles Honchar Dnipro National University, [tonkoshkuras@ukr.net](mailto:tonkoshkuras@ukr.net)

Prof. Bulanyi Mikhail, professor of Department of Applied Radiophysics, Electronics and Nanomaterials, Oles Honchar Dnipro National University, [bulanyi@ukr.net](mailto:bulanyi@ukr.net)

Ph.D. Prokofiev Tikhon, associate professor of Computer Science and Information Technologies, Oles Honchar Dnipro National University, [tichonprok@yahoo.de](mailto:tichonprok@yahoo.de)

Ph.D. Gomilko Igor, dean of Faculty of Physics, Electronics and Computer Systems, Electronics and Nanomaterials, Oles Honchar Dnipro National University, [gomilko@ukr.net](mailto:gomilko@ukr.net)

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Ph.D. Saltykov Dmitry, deputy dean for research of Faculty of Physics, Electronics and Computer Systems, Electronics and Nanomaterials, Oles Honchar Dnipro National University, [d.yu.saltykov@gmail.com](mailto:d.yu.saltykov@gmail.com)

This list may be extended upon a request.

If any further information required, please contact me [IvanchenkoAV@ukr.net](mailto:IvanchenkoAV@ukr.net)

УКРАЇНА  
Міністерство освіти і науки  
Рішенням Атестаційної колегії  
від 25 лютого 2016 протокол № 1/02-Д

**Іванченку Олександр Володимировичу**  
ПРИСВОЄНО ВЧЕНЕ ЗВАННЯ  
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Голова Атестаційної колегії \_\_\_\_\_  
Учений секретар \_\_\_\_\_

« 25 » лютого 2016 р. М.П. \_\_\_\_\_

ДП «ІН» «Освіта» Зам. 745, 2016-8

УКРАЇНА  
Міністерство освіти і науки, молоді та спорту України

Дніпропетровський національний  
(повне найменування вищого навчального закладу, наукової установи)  
університет імені Олеся Гончара

на підставі прилюдного захисту дисертації  
**Іванченку**  
**Олександр Володимировичу**  
присуджено науковий ступінь  
кандидата  
фізико-математичних наук  
(галузь науки)  
із спеціальності  
фізика твердого тіла  
(назва)

Голова Атестаційної колегії \_\_\_\_\_  
Учений секретар \_\_\_\_\_

М. П. \_\_\_\_\_

ДП «ІН» «Освіта» Зам. 540, 2013-1

**ДИПЛОМ**  
з відзнакою

Іванченко  
Олександр Володимирович  
закінчив у 1998 році Дніпропетровський  
державний університет і отримав повну вищу  
освіту за спеціальністю "Радіофізика і електроніка"  
та здобув кваліфікацію радіофізика.

Ректор \_\_\_\_\_ В.Ф. Прісняков  
30 червня 1998 р.

ДП «ІН» «Освіта» Зам. 540, 2013-1