



## Olha Hulai

**Nationality:** Ukrainian **Date of birth:** 16/05/1970 **Gender:** Female

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### ABOUT ME

I am a professor at the Department of Digital Educational Technologies and the Department of Food Technologies and Chemistry of Lutsk National Technical University (Ukraine). I attended Ivan Franko State University of Lviv in Ukraine, where I received Master's degree in Chemistry. I received Ph.D. in Materials Science from Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine in 2000. I received Dr. of pedagogical sciences in Theory and Methods of Professional Education from Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University in 2016. My research interests are competency approach in the vocational education; e-teaching and learning; creation of new materials with the given properties; food technology. I'm the author or co-author over 130 scientific articles, 4 patents, 4 monographs, 4 textbook and more than 50 methodical editions.

### WORK EXPERIENCE

#### Professor

*Lutsk National Technical University* [ 2016 – Current ]

City: Lutsk | Country: Ukraine

Teaching the following courses: Creative technologies of learning, Technologies of e-learning and LSM, Methodology of scientific research, Biochemistry, Organic chemistry, Pedagogy and psychology of higher school.

#### Project manager

*Lutsk National Technical University* [ 2024 – Current ]

City: LUTSK | Country: Ukraine

Head of research work "Digital educational technologies in the educational process of a technical university" (No DR 0124U001901).

#### Project manager

*Lutsk National Technical University* [ 2021 – 2023 ]

City: Lutsk | Country: Ukraine

Head of research work "Physico-chemical properties of substances and materials" (No DR 0121U108196).

#### Associate professor

*Lutsk State Technical University* [ 2005 – 2016 ]

City: Lutsk | Country: Ukraine

Teaching the following courses: Chemistry, Organic chemistry, Biogeochemistry

#### Head of the Chemistry Department

*Lutsk National Technical University* [ 2006 – 2011 ]

City: Lutsk | Country: Ukraine

#### Senior Lecturer

*Lutsk State Technical University* [ 2004 – 2005 ]

City: Lutsk | Country: Ukraine

#### Assistant lecturer

*I. Horbachevsky Ternopil Medical Academy* [ 2002 – 2004 ]

City: Ternopil | Country: Ukraine

## Leading Specialist

OS «UkrSEPROtruboibizol» [ 2000 – 2002 ]

City: Lviv | Country: Ukraine

## Engineer

Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine [ 1992 – 2000 ]

City: Lviv | Country: Ukraine

## EDUCATION AND TRAINING

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### Erasmus+ Staff Week

TU Bergakademie Freiberg [ 02/12/2024 – 06/12/2024 ]

City: Freiberg | Country: Germany

### Sigma Software University : Teachers' Smart Up: Summer Edition 2024

Sigma Software University [ 22/06/2024 – 26/06/2024 ]

City: Kyiv | Country: Ukraine | Website: <https://university.sigma.software/en/>

### International Internship "Digital Future: Blended Learning"

Digital Innovation Network 2 (Diglin.Net 2) [ 02/10/2023 – 30/11/2023 ]

City: Kothen (DE)-Ternopil (UA) - Odesa (UA) | Website: <https://digin-net.de/>

### Incubation program "Booster of innovative projects"

Kyiv Academic University, European Institute of Innovation and Technology [ 16/05/2023 – 23/06/2023 ]

City: Kyiv | Country: Ukraine

### Online internship "Online learning as an unconventional form of modern education on the example of MOODLE platform"

Research Institute of Lublin Scientific and Technological Park and IESF [ 09/11/2021 – 16/11/2021 ]

City: Lublin | Country: Poland

### Online internship "Google digital tools for higher, professional pre-higher education institutions"

Digitalacademy [ 04/10/2021 – 18/10/2021 ]

City: Kyiv | Country: Ukraine | Website: <https://www.digitalacademy.in.ua/>

### Dr. of pedagogical sciences in Theory and Methods of Professional Education

Vinnitsia Mykhailo Kotsiubynskyi State Pedagogical University [ 05/2016 ]

Country: Ukraine

### Ph.D. in Materials Science

Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine [ 11/2000 ]

City: Lviv | Country: Ukraine

### Ph.D COURSES

Karpenko Physico-Mechanical Institute of the National Academy of Sciences of Ukraine [ 1996 – 2000 ]

City: Lviv | Country: Ukraine

### Master's degree in Chemistry

Ivan Franko State University of Lviv [ 1987 – 1992 ]

Country: Ukraine

## LANGUAGE SKILLS

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Mother tongue(s): Ukrainian

Other language(s):

### English

LISTENING B1 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

### Polish

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

## DIGITAL SKILLS

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Microsoft Office, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, Google Drive, Zoom

## PUBLICATIONS

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[2024]

**COMPARISON OF PROPERTIES OF PLANT-BASED MILK AND COW'S MILK**

**Vitamin C: Structure, Biochemical Significance, Methods of Determination.**

[2024]

**Principles of Open Science in the Activities of a Technical University.**

[2024]

**USING THE LABSTER VIRTUAL LABORATORY TO STUDY CHEMISTRY AT A TECHNICAL UNIVERSITY**

[2024]

**SOFT AND HARD SKILLS IN THE PROCESS OF TEACHING AND LEARNING**

[2024]

**Assessment Design Using the MOODLE Learning Platform.**

[2024]

**MOOC Courses as an Element of Blended Learning.**

[2024]

**Strength and mechanical characteristics of modified polyurethane foams**

[2024]

**Inquiry-Based Learning in the Study of Chemical Disciplines by Food Technologies Students**

[2023]

**Means and Technologies of Digital Learning: Theoretical and Practical Aspects.**

[2023]

**Digital Educational Space as the Main Innovation of the XXI Century**

[2023]

**Professional Education (Digital Technologies): Master's Course / Edited by O.I. Hulai.**

[2023]

**Evaluation design based on the theory of constructive agreement**

[2023]

**The concept of teaching chemical disciplines for future food technologists**

[2023]

**Food additives of natural origin: short review**

[2023]

**Chromatographic Determination of the Chemical Composition of Apple Chips Extract**

[2023]

**Implementation of the educational process under martial law**

[2023]

**Formative Assessment as a Modern Educational Trend.**

[2023]

**Specified parameters in designing porous materials using magnetic nanotechnologies**

[2022]

## [Google digital tools as a means of improving the educational process at higher education institutions.](#)

[2022]

## [Rare earth metals as a critical raw material. Quick overview.](#)

[2022]

## [Blended learning as a modern educational trend.](#)

[2021]

## [Physicochemical aspects of molecular gastronomy](#)

[2020]

## [STEM concept in the work of the materials research groups of the Small Academy of Sciences](#)

[2020]

## [Investigation of Electronic Conductivity in PbI<sub>2</sub>:Hf Single Crystals.](#)

[2020]

## [Cyclic structuring of epoxy polymers under the influence of microwave electromagnetic radiation](#)

[2020]

## [Inhibitor efficacy and composition of oak bark extract](#)

[2018]

## [Features Of Step-By-Step Training Of Future Engineers](#)

[2018]

## [Current stability of cast iron in the conditions of production of tomato products.](#)

## **PROJECTS**

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[ 01/12/2023 – Current ]

### **International Education Project "Structural Support for Ukrainian Universities in Upkeep and Rebuilding of Higher Education"**

The creation of educational video content of the course General Chemistry for posting on the OPAL platform. Visit to the laboratory "Institut für Analytische Chemie" of the TU Bergakademie Freiberg, participation in the creation of educational video content.

Link: <https://suuport.de/professors-from-the-ukrainian-universities-visited-the-institute-of-analytical-chemistry-of-tu-bergakademie-freiberg>

[ 2021 – 2023 ]

### **University Teachers' Certification Centres: Innovative Approach To Promotion Teaching Excellence (UTTERLY). (619227-EPP-1-2020-1-UA-EPPKA2-CBHE-JP)**

Participation in "Retraining in the field of teaching excellence" at the University of Bayreuth (Germany) (20/10-21/11/2021); in "Ukrainian-Bavarian Conference on Digital Education" at the University of Bayreuth (23-24/06/2022).

[ 22/03/2023 – 23/03/2023 ]

### **"MSCA Doctoral Networks and Twinning: Advanced Materials & Processes and Artificial Intelligence for Sustainability"**

Participation in workshop in Regensburg, at the Bavarian University Center for Central, Eastern and Southeastern Europe (BAYHOST), Bavarian-Czech University Agency (BTHA) and Bavarian Research Alliance (BayFOR)

[ 04/05/2023 – 05/05/2023 ]

### **Ukrainian-Bavarian Conference on Double Degree Programs**

Participation in Conference in Regensburg, at the Bavarian University Center for Central, Eastern and Southeastern Europe (BAYHOST) and the Leibniz Institute for East and Southeast European Studies (IOS)

[ 06/12/2016 – 10/12/2016 ]

### **Scientific and methodological internship at the European Organization for Nuclear Research CERN, Geneva (Switzerland)**

[ 2013 – 2016 ]

**"Modernization of curricula of two-level program of study (bachelors / masters) of engineering materials based competency approach and best practices for the implementation of the Bologna process" 543994-TEMPUS-1-2013-1-BE-TEMPUS-JPCR (MMATENG)**

Participation in educational internship at the Technical University of Berlin (Germany) (02-06/12/2015)

## **ID**

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**ORCID:** <http://orcid.org/0000-0002-1120-6165>

**Web of Science:** <https://www.webofscience.com/wos/author/rid/AAA-2738-2019>

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57221588633>

**Google Scholar:** [https://scholar.google.com.ua/citations?view\\_op=list\\_works&hl=uk&user=X5xPIPEAAAAJ](https://scholar.google.com.ua/citations?view_op=list_works&hl=uk&user=X5xPIPEAAAAJ)

**Researchgate.net:** [https://www.researchgate.net/profile/Olha\\_Hulai](https://www.researchgate.net/profile/Olha_Hulai)