

# Viktória Zsinka

H-8200, Veszprém, Egyetem u. 10 

+36202171565 

zsinka.viktoria@mk.uni-pannon.hu 

<https://hu.linkedin.com/in/vikt%C3%B3ria-zsinka-07a7661a2> 

<https://www.researchgate.net/profile/Viktoria-Zsinka> 

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## Work experience

2025.04.-

**Research Associate / University of Pannonia, Department of MOL Hydrocarbon and Coal Processing, Veszprém**

2022.02.-2025.04.

**Research Assistant / University of Pannonia, Department of MOL Hydrocarbon and Coal Processing, Veszprém**

2019.03.-2022.02.

**Technical Assistant / University of Pannonia, Department of MOL Hydrocarbon and Coal Processing, Veszprém**

2018.07.

**Summer internship / MOL Nyrt. Danube Refinery, Százhalombatta**

2018.03.-2019.03.

**Agency contract / University of Pannonia, Department of MOL Hydrocarbon and Coal Processing, Veszprém**

2018.03.-2019.03.

**Agency contract / University of Pannonia, Department of MOL Hydrocarbon and Coal Processing, Veszprém**

2017.07.-2017.08.

**Summer internship / MOL Petrochemistry Zrt., Butadiene Plant, Tiszaújváros**

2016.06.-2016.08.

**Laboratory assistant / CiToxLAB, Veszprém**

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## Studies

2020.01.-2024.08.

**PhD in Chemical Engineering / University of Pannonia, Veszprém**

Title of Dissertation: Value-added transformation of biomass based waste into synthesis gas

2024.07.-09.

**07994001 Explosion-proof equipment installer qualification / Oktatozone Kft.**

2018.09.-2020.01.

**MSc in Chemical Engineering / University of Pannonia, Veszprém**

2014.09.-2018.09.

**BSc in Chemical Engineering / University of Pannonia, Veszprém**

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## Language skills

„B2” LANGUAGE EXAM FROM ENGLISH

„B1” LANGUAGE EXAM FROM SPANISH

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## Awards

**2020** - NEW NATIONAL PROGRAM OF EXCELLENCE, 12 MONTHS SCHOLARSHIP

**2019** - ITDK I. PLACE; NATIONAL HIGHER EDUCATION SCHOLARSHIP; NEW NATIONAL PROGRAM OF EXCELLENCE, 5 MONTHS SCHOLARSHIP; KTDK II. PLACE

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## Other

KNOWLEDGE OF MICROSOFT OFFICE EXCEL/WORD

BASIC KNOWLEDGE OF SIMULATION PROGRAMS: SIMULINK, MATLAB, ASPEN PLUS, ASPEN ADSORPTION, ASPEN EXCHANGER DESIGN AND RATING, COMSOL, UNISIM, PROII

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## Publication list

- **V. ZSINKA**, B. L. TARCSAY, N. MISKOLCZI, (2025) STUDYING THE REGENERATION CYCLES OF NICKEL-CONTAINING CATALYSTS DURING HIGH TEMPERATURE GASIFICATION AND PREDICTION MODEL FITTING. BIOMASS AND BIOENERGY, 197, 107745. [HTTPS://DOI.ORG/10.1016/J.BIOMBIOE.2025.107745](https://doi.org/10.1016/j.biombioe.2025.107745)
  - **V. ZSINKA**, B. L. TARCSAY, N. MISKOLCZI, (2024) DETERMINATION OF KINETIC AND THERMODYNAMIC PARAMETERS OF BIOMASS GASIFICATION WITH TG-FTIR AND REGRESSION MODEL FITTING. ENERGIES, 17, 1875. [HTTPS://DOI.ORG/10.3390/EN17081875](https://doi.org/10.3390/en17081875)
  - **V. ZSINKA**, N. MISKOLCZI, (2024) INVESTIGATION OF REGENERATION CYCLES WITH DIFFERENT CATALYSTS ON STEAM GASIFICATION OF BIOMASS. JOURNAL OF THE ENERGY INSTITUTE 114, 101632. [HTTPS://DOI.ORG/10.1016/J.JOEI.2024.101632](https://doi.org/10.1016/j.joei.2024.101632)
  - **V. ZSINKA**, SZ. TOMASEK, N. MISKOLCZI, (2023) FEASIBILITY AND ECONOMIC ISSUES OF BIOMASS PYROLYSIS-GASIFICATION: THE EFFECT OF MOISTURE CONTENT OF RAW MATERIAL. CHEMICAL ENGINEERING TRANSACTIONS, VOL. 99, 73-78. 10.3303/CET2399013
  - **V. ZSINKA**, N. MISKOLCZI, T. JUZSAKOVA, M. JAKAB, (2022) PYROLYSIS-GASIFICATION OF BIOMASS USING NICKEL MODIFIED CATALYSTS: THE EFFECT OF THE CATALYST REGENERATION ON THE PRODUCT PROPERTIES. JOURNAL OF THE ENERGY INSTITUTE, VOL. 105, 16-24. [HTTPS://DOI.ORG/10.1016/J.JOEI.2022.08.003](https://doi.org/10.1016/j.joei.2022.08.003)
  - **V. ZSINKA**, J. BOBEK-NAGY, A. EGEDY, N. MISKOLCZI, SZ. TOMASEK, H. YANG, (2022) TECHNO-ECONOMICAL ANALYSIS OF CO<sub>2</sub> CAPTURE FROM BIOMASS-DERIVED SYNGAS. CHEMICAL ENGINEERING TRANSACTIONS, VOL.92. [HTTPS://DOI.ORG/10.3303/CET2292078](https://doi.org/10.3303/CET2292078)
  - N. MISKOLCZI, **V. ZSINKA**, O. TÓTH, Z. ELLER, N. GAO, Q. CUI, J. BOBEK, (2020) CO-PYROLYSIS- REFORMING OF BIOMASS AND RESIDUES FROM WASTE POLYMER PYROLYSIS FOR CO<sub>2</sub> REDUCTION AND SYNGAS ENHANCEMENT, CHEMICAL ENGINEERING TRANSACTIONS, 81, 1195-1200. [HTTPS://DOI.ORG/10.3303/CET2081200](https://doi.org/10.3303/CET2081200)
  - B.FEKHAR, **V.ZSINKA**, N.MISKOLCZI, (2020) THERMO-CATALYTIC CO-PYROLYSIS OF WASTE PLASTIC AND PAPER IN BATCH AND TUBULAR REACTORS FOR IN-SITU PRODUCT IMPROVEMENT. JOURNAL OF ENVIRONMENTAL MANAGEMENT, 269, 110741. [HTTPS://DOI.ORG/10.1016/J.JENVMAN.2020.110741](https://doi.org/10.1016/j.jenvman.2020.110741)
  - **ZSINKA V.**, NAGY N. L., MISKOLCZI N., (2020) MŰANYAG-KOMPOZITOK ÉS SZINTÉZISGÁZ ELŐÁLLÍTÁSA TETRA PAK HULLADÉKOK ÚJRAHASZNOSÍTÁSÁVAL, POLIMEREK VI. SZÁM
  - B. FEKHAR, **V. ZSINKA**, N. MISKOLCZI, (2019) VALUE ADDED HYDROCARBONS OBTAINED BY PYROLYSIS OF CONTAMINATED WASTE PLASTICS IN HORIZONTAL TUBULAR REACTOR: IN SITU UPGRADING OF THE PRODUCTS BY CHLORINE CAPTURE. JOURNAL OF CLEANER PRODUCTION, VOLUME 241, 118116. [HTTPS://DOI.ORG/10.1016/J.JCLEPRO.2019.118166](https://doi.org/10.1016/j.jclepro.2019.118166)
  - B. FEKHAR, **V. ZSINKA**, N. MISKOLCZI, (2019) FUELS BY CHEMICAL RECYCLING OF WASTE PLASTIC AND BIOMASS MIXTURE AND UTILIZATION OF THE PRODUCTS, CHEMICAL ENGINEERING TRANSACTIONS, VOLUME 76, 1447-1452, [HTTPS://DOI.ORG/10.3303/CET1976242](https://doi.org/10.3303/CET1976242)
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