

## Listă de lucrări

Dr. Ing. Bartha-Vari Judith-Hajnal

a) lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii,

1. **Bartha-Vári J.H.**, Tosa M.I., Irimie F.-D., Weiser D., Boros Z., Vértesy B.G., Paizs C., Poppe L., Immobilization of phenylalanine ammonia-lyase on single-walled carbon nanotubes for stereoselective biotransformation in batch and continuous-flow modes, **2015**. *ChemCatChem*, 7, 1122-1128; doi: [10.1002/cctc.201402894](https://doi.org/10.1002/cctc.201402894)
2. Bencze C.L., **Bartha-Vári J.H.**, Katona G., Toşa M.I., Paizs Cs., Irimie F.-D., Nanobioconjugates of Candida antarctica lipase B and single-walled carbon nanotubes in biodiesel production. **2016**, *Bioresource Technol*, 200, 853-860; doi: [10.1016/j.biortech.2015.10.072](https://doi.org/10.1016/j.biortech.2015.10.072)
3. **Bartha-Vári J.H.**, Bencze C.L., Santa-Bell E., Poppe L., Katona G., Irimie F.-D., Paizs C., Toşa M.I., Aminated single-walled carbon nanotubes as carrier for covalent immobilization of phenylalanine ammonia-lyase. **2017**, *Periodica Polytechnica Chemical Engineering* 61(1):59-66 doi: [10.3311/PPch.10417](https://doi.org/10.3311/PPch.10417)
4. Moisă M.E., Spelmezan C.G., Paul C., **Bartha-Vári J.H.**, Bencze C. L., Irimie F.-D., Paizs C., Péter F., Toşa M. I., Tailored sol-gel immobilized lipase prepares for the enzymatic kinetic resolution of heteroaromatic alcohols in batch and continuous flow systems. **2017**, *RSC Advances*, 7(83):52977-52987; doi: [10.1039/C7RA10157K](https://doi.org/10.1039/C7RA10157K)
5. **Bartha-Vári J.H.**, Moisă M.E., Bencze C. L., Irimie F.-D., Paizs C., Toşa M. I., Efficient Biodiesel Production Catalyzed by Nanobioconjugate of Lipase from Pseudomonas fluorescens, **2020**, *Molecules*, 25(3), 651; doi: [10.3390/molecules25030651](https://doi.org/10.3390/molecules25030651)
6. Gal C.A., Barabás L.E., **Bartha-Vári J.H.**, Moisă M.E., Weiser-Balogh, D., Bencze C.L., Poppe L., Paizs C., Toşa M. I., Lipase on carbon nanotubes – an active, selective, stable and easy-to-optimize nanobiocatalyst for kinetic resolutions. **2021**, *React. Chem. Eng.*, 6, 2391-2399; doi: [10.1039/D1RE00342A](https://doi.org/10.1039/D1RE00342A)
7. **Bartha-Vári J.H.**, Elekes-Darabont R., Barabás L.E., Barabás R., Immobilization of phenylalanine ammonia-lyase on hydroxyapatite and hydroxyapatite composites. **2021**, *STUDIA UBB CHEMIA*, LXVI, 1, 165-178; doi:[10.24193/subbchem.2021.1.13](https://doi.org/10.24193/subbchem.2021.1.13)

8. Petkes R., Farkas N.I., Marincaş L., Bartha-Vári, J.H., Barabá, R., Synthesis and Characterization of silver-doped hydroxyapatite. **2023**, *STUDIA UBB CHEMIA*, LXVIII, 4, 27-40; doi:[10.24193/subbchem.2023.4.03](https://doi.org/10.24193/subbchem.2023.4.03)

**b) Teza de doctorat**

**Titlu:** *Stereoselective Additions/Eliminations and Biodiesel Synthesis by Single Walled Nanotubes Immobilized Enzymes (Adiții/eliminări stereoselective și sinteza biodieselului cu enzime imobilizate pe nanotuburi de carbon funcționalizate)*

**Locul susținerii:** Universitatea Babeș-Bolyai, Cluj-Napoca

**Data susținerii:** 07.07.2016

**Conducător științific:** Prof. Dr. Ing. Florin-Dan Irimie

**c) brevete de invenție și alte titluri de proprietate industrială**

- nu este cazul

**d) cărți și capitole în cărți**

- nu este cazul

**e) articole/studii, publicate în fluxul științific internațional principal;**

1. Bartha-Vári J.H., Tosa M.I., Irimie F.-D., Weiser D., Boros Z., Vértesy B.G., Paizs C., Poppe L., Immobilization of phenylalanine ammonia-lyase on single-walled carbon nanotubes for stereoselective biotransformation in batch and continuous-flow modes, **2015**. *ChemCatChem*, 7, 1122-1128; doi: [10.1002/cctc.201402894](https://doi.org/10.1002/cctc.201402894)

2. Bencze C.L., Bartha-Vári J.H., Katona G., Toşa M.I., Paizs Cs., Irimie F.-D., Nanobioconjugates of *Candida antarctica* lipase B and single-walled carbon nanotubes in biodiesel production. **2016**, *Bioresource Technol*, 200, 853-860; doi: [10.1016/j.biortech.2015.10.072](https://doi.org/10.1016/j.biortech.2015.10.072)

3. Bartha-Vári J.H., Bencze C.L., Santa-Bell E., Poppe L., Katona G., Irimie F.-D., Paizs C., Toşa M.I., Aminated single-walled carbon nanotubes as carrier for covalent immobilization of phenylalanine ammonia-lyase. **2017**, *Periodica Polytechnica Chemical Engineering* 61(1):59-66 doi: [10.3311/PPch.10417](https://doi.org/10.3311/PPch.10417)

4. Moisă M.E., Spelmezan C.G., Paul C., Bartha-Vári J.H., Bencze C. L., Irimie F.-D., Paizs C., Péter F., Toşa M. I., Tailored sol-gel immobilized lipase prepares for the enzymatic kinetic

resolution of heteroaromatic alcohols in batch and continuous flow systems. **2017**, *RSC Advances*, 7(83):52977-52987; doi: **10.1039/C7RA10157K**

5. **Bartha-Vári J.H.**, Moisă M.E., Bencze C. L, Irimie F.-D., Paizs C., Toşa M. I., Efficient Biodiesel Production Catalyzed by Nanobioconjugate of Lipase from *Pseudomonas fluorescens*, **2020**, *Molecules*, 25(3), 651; doi: **10.3390/molecules25030651**

6. Gal C.A., Barabás L.E., **Bartha-Vári J.H.**, Moisă M.E., Weiser-Balogh, D., Bencze C.L., Poppe L., Paizs C., Toşa M. I., Lipase on carbon nanotubes – an active, selective, stable and easy-to-optimize nanobiocatalyst for kinetic resolutions. **2021**, *React. Chem. Eng.*, 6, 2391-2399; doi: **10.1039/D1RE00342A**

7. **Bartha-Vári J.H.**, Elekes-Darabont R, Barabás L.E., Barabás R., Immobilization of phenylalanine ammonia-lyase on hydroxyapatite and hydroxyapatite composites. *STUDIA UBB CHEMIA*, LXVI, 1, 165-178; doi:**10.24193/subbchem.2021.1.13**

8. Petkes R., Farkas N.I., Marincaş L., **Bartha-Vári, J.H.**, Barabá, R., Synthesis and Characterization of silver-doped hydroxyapatite. **2023**, *STUDIA UBB CHEMIA*, LXVIII, 4, 27-40; doi:**10.24193/subbchem.2023.4.03**

**f) publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate;**

1. Naghi M. A., **Vari J. H.**, Tosa M. I., Paizs C., Irimie F.D, CaL-A Mediated Kinetic Resolution of Racemic 2-hydroxy-2-(5-phenylthiophen-3-yl)acetonitrile and its Derivatives, *13<sup>th</sup> Internationala Symposuma and Summer School, Debrecen*, **2013** - poster

2. **Vari J.H.**, Varga A., Poppe L., Paizs Cs., Covalent Immobilization of Phenylalanine Ammonia Lyase on Functionalized Single Walled Carbon Nanotubes, *Action COST CM1303 SysBiocat Training School*, **2014**, Siena, Spania – poster+prezentare orală

3. **Vari J.H.**, Varga A., Poppe L., Paizs Cs., Covalent immobilization of Phenylalanine Ammonia Lyase on Functionalized Single-Walled Carbon Nanotubes, ACTION CM1303 “SysBiocat” Kick-off Workshop CSIC Headquarters, Madrid (ES), **10 april 2014** – prezentare orală

4. Filip A., **Bartha-Vári J.H.**, Banoczi G., Poppe L., Bencze L.C, Paizs C., Irimie F.D.: Non-natural aminoacids via the MIO–enzyme toolkit, *The Organizing Committee of the 29th Annual Symposium of The Protein Society, Barcelona, Spania, 22-25 july, 2015.* - poster
5. **Bartha-Vári J.H.**, Functionalized nanotubes supported lipases for biodiesel production, *Young Researchers' International Conference on Chemistry and Chemical Engineering, May 2016* -prezentare orală
6. **Bartha-Vári J. H.**, Nagy E. Z., Gal C. A., Bencze L. C., Toşa M. I., Irimie F. D., Abaházi E., Poppe L., Paizs C., CaL-B Immobilized on Single Walled Carbon Nanotubes as Efficient Biocatalyst for the Kinetic Resolution of 1-(Hetero)aryl -Ethanols., *Action COST CM1303 SysBiocat Training School, Siena, Spania, 2016* - poster
7. **Bartha-Vári J. H.**, Covalent Immobilization of Lipases on Functionalized Single-Walled Carbon Nanotubes for Biodiesel Production in Batch and in Continuous Flow Modes, *16th International Symposium and Summer School on Bioanalysis, Varsovia, 2016*, (16th ISSSB), prezentare orală
8. Gal C. A., **Bartha-Vári J. H.**, Nagy E.Z.A., Tiponuț N., Dr. Bencze L.C., Toşa M.I., Katona G., Paizs C., A CaL-B lipáz nanorészecskékre való rögzítése valamint alkalmazása optikailag tiszta aril, heteroaril szekunder alkoholok előállítására, *22nd International Conference on Chemistry, 3-6 November 2016, Timisoara, Romania* - poster
9. Moisă M.E., **Bartha-Vári J. H.**, Bencze L.C., Irimie F.D., Paizs C., Toşa M.I., Site-specifically immobilized phenylalanine ammonia lyases for continuous flow processes, *The 13<sup>th</sup> International Symposium of the Romanian Catalysis Society RomCat2022, Băile Govora, 20-24 June 2022* – poster