Lista de lucrări în domeniul de studii universitare de licenţă

Numele şi prenumele: ***Orbán Kálmán Csongor***

A. Teza de doctorat

Contribuţii la optimizarea şi modelarea proceselor de amiloliză cu enzime recombinante, Conducător științific Prof. dr. ing. Lányi Szabolcs, Universitatea Politehnica din București, Facultatea de Chimie Aplicată și Știința Materialelor, Departamentul Chimie Analitică și Ingineria Mediului.

B. Cărți și capitole de cărți

B1. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

1. Orbán Kálmán-Csongor, Contributions to the OPT and modeling of amylolysis with REC enzymes, LAP LAMBERT Academic Publishing, Chisinau, 2013, p.120, ISBN 978-3-659-37846-1

B3. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

1. Orbán Kálmán-Csongor, Számítógépes grafika – AutoCAD, 2022, p. 97, ISBN: 978-973-0-36554-2

C. Lucrări ştiinţifice publicate

C1. Lucrări ştiinţifice publicate în reviste cotate ISI

2026

1. PÉTER, Izabella, Orbán, Kálmán-Csongor et al. Succinic acid production from agro-industrial by-products: A comparative study of Basfia succiniciproducens and Escherichia coli strains. Electronic Journal of Biotechnology, 2026, 100727.

2025

1. Dávid Filoména, Salamon Pál, Bodor Zsolt, Miklóssy Ildikó, Orbán Csongor, Albert Beáta, *Relationship between physical condition and academic performance in rural Romanian schoolchildren*, Sportis Sci J, 11 (1), 1-25, https://doi.org/10.17979/sportis.2025.11.1.11205.

2024

2. Csató-Kovács E, Salamon P, Fikó-Lászlo S, Kovács K, Koka A, András-Korodi M, Antal E, Brumă E, Tőrsők B, Gudor S, Miklóssy I, **Orbán KC**, Albert C, Bálint EÉ, Albert B. *Development of a Mammalian Cell Line for Stable Production of Anti-PD-1*. Antibodies (Basel). 2024 Oct 3;13(4):82. doi: 10.3390/antib13040082. PMID: 39449324; PMCID: PMC11503334.
3. Martin Iakab, Erzsébet Domokos, Csaba Fazakas, Béla Biró-Janka, László Fodorpataki, Csilla Albert, **Csongor Orbán**, Francisc Vasile Dulf, *Changes induced by vesicular-arbuscular fungus Rhizophagus irregularis in aerial parts of Echinacea purpurea*, Scientia Horticulturae, Volume 328, 2024, 112922, ISSN 0304-4238, https://doi.org/10.1016/j.scienta.2024.112922.
4. Bodor K, Tamási B, Keresztesi Á, Bodor Z, **Csongor Orbán K**, Szép R. *A comparative analysis of the nutritional composition of several dairy products in the Romanian market*. Heliyon. 2024 May 22;10(11):e31513. doi: 10.1016/j.heliyon.2024.e31513. PMID: 38841466; PMCID: PMC11152709.

2023

5. Fodor Hunor Pál, Dávid Hunor, Czont Attila, Miklóssy Ildikó, **Orbán Kálmán-Csongor**, Tar Gyöngyvér, Fodor Abony, Kovács Zita, Albert Beáta, Salamon Pál, *Enhanced Gait Recovery in Chronic Post-COVID-19 Stroke: The Role of Combined Physical Rehabilitation*, MDPI Reports 2023, 6, 51. https://doi.org/10.3390/reports6040051

2022

6. Salamon Pál, **Orbán Kálmán-Csongor**, Molnár-Nagy Katalin, Kovács Zita, Klára Váncs, Bálint Emese, Miklóssy Ildikó, Albert Beáta, Tar Gyöngyvér, Lányi Szabolcs, *Study of native SMAC protein production in the pUbiq expression system: Molecular cloning, biosynthesis and molecular modelling*, EJB, Vol. 56, 2022, p. 39-46, https://doi.org/10.1016/j.ejbt.2022.01.002

2021

7. Katalin Nagy, Zita Kovács, Ildikó Miklóssy, Pál Salamon, **Csongor-Kálmán Orbán**, Beáta Albert, Szabolcs Lányi, *Detergent aided refolding and purification of recombinant XIAP from inclusion bodies*, Studia UBB Chemia, LXVI, 4, 2021, p. 355-368, DOI:10.24193/subbchem.2021.4.26

8. Szövérfi János, **Orbán Kálmán-Csongor**, Albert Beáta, Nagy Katalin, Salamon Pál, Lányi Szabolcs, *In vitro study of the CCMV capsid protein: cloning, expression, and purification*, UPB Sci. Bull, Series B, Vol. 83, Iss.1, 2021

2019

9. Nagy Katalin, **Orbán Kálmán-Csongor**, Albert Beáta, Lányi Szabolcs, *Biosynthesis BIR3 domain of inhibitor of apoptosis proteins*, UPB Sci. Bull., series B81: 4 pp. 1454-2331, 878p.

10. Katalin Nagy, Zita Kovács, Pál Salamon, **Csongor-Kálmán Orbán**, Szabolcs Lányi, Beáta Albert, *Enhanced heterologous expression in E. Coli*, Studia Universitatis Babes-Bolyai, Seria Chemia LXIV, 2, Tom I, 2019, p. 101-110, DOI:10.24193/subbchem.2019.2.09

2018

11. Francisc-Andrei Boda, Salamon Pál, **Csongor Orbán**, Lavinia Berta Augustin Curticőpean, Șerban-Andrei Gâz, Maria Dogaru, *Heterologous expression and purification of recombinant crotoxin B, the phospholipase A2 subunit of crotoxin*, Studia UBB Chemia, LXII, 1, 7-20, DOI: 10.24193/subbchem.2018.1.01, 2018 (IF: 0.244)

2017

12. Stefan-Ovidiu Dima, Denis-Mihaela Panaitescu, **Csongor Orban**, Marius Ghiurea, Sanda-Maria Doncea, Radu Fierascu, Cristina Nistor, Elvira Alexandrescu, Cristian-Andi Nicolae, Bogdan Trică, Angela Moraru, Florin Oancea: *Bacterial Nanocellulose from Side-Streams of Kombucha Beverages Production: Preparation and Physical-Chemical Properties*, Polymers 2017, 9 (8), 374, ISSN 2073-4360, DOI:10.3390/polym9080374, 2017 (IF:4.33)

13. Pál Salamon, ldikó Miklóssy, Beáta Albert, Mónika Korodi, Katalin Nagy, Ildikó Bakos, Szabolcs Lányi, **Csongor Orbán**, 2017, *Heterologous expression and purification of recombinant proapoptotic human protein SMAC/diablo with EGFP as fusion partner*, Studia Universitatis Babes-Bolyai, Seria Chemia LXII,2, 333-34, ISSN 1224-7154, DOI:10.24193/subbchem.2017.2.26, 2017 (IF:0.244)

2016

14. Miklóssy, I., Bodor, Z., Sinkler, R., **Orbán, K. C.**, Lányi, S., Albert, B.: *In silico and in vivo stability analysis of a heterologous biosynthetic pathway for 1,4-butanediol production in metabolically engineered E. coli.*, Journal of Biomolecular Structure and Dynamics, 35(9), 1874-1889, ISSN DOI:10.1080/07391102.2016.1198721, 2016 (IF: 3.123)

2013

15. Bálint, E.É., Petres, J., Szilágyi, L., **Orbán, K.Cs.**, Ábrahám, B., *Fluorescence of a histidine-modified Enhanced Green Fluorescent Protein (EGFP) effectively quenched by copper(II) ions.* Journal of Fluorescence, ISSN 1573-4994, 2013, (IF: 2.107 , SRI: 1.373; EF: 0.006613; AI: 0.6153)

2012

16. Gálicza, J., Vargová, A., Sándor, V., **Orbán, K.Cs.**, András, Cs.D., Ábrahám, B**,** Lányi, Sz., Kilár, F., *Preparation and investigation of bioactive transferrin-iron complexes formed with different synergistic anions*, The Protein Journal, 31, 27–34, ISSN 1572-3887,.2012, (IF: 1.038, EF: 0.001445; AI: 0.27)

2010

17. Andras, CD; Csajagi, C; **Orban, CK**; Albert, C; Abraham, B.; Miklossy, I, *A possible explanation of the germicide effect of carbon dioxide in supercritical state based on molecular-biological evidence.* Medical Hypotheses, ISSN 0306-9877, 74 (2), pp. 325-329, 2010, (IF: 1.640; EF: 0.0127; AI: 0.3208)
18. Bodor, Zs., **Orbán, K.Cs.**, Miklóssy, I., Juhász K., Ábrahám, B., Lányi, Sz., *Heterologous expression of Bacillus Licheniformis α-amylase in Pichia pastoris,* Studia Universitatis "Babeş Bolyai", Seria Chemica, 55, Special Issue 9-22, 2010 (I.F.=0.231, EF: 0.000525; AI: 0.0113)
19. Gálicza, J., **Orbán, K.Cs.**, Kilár, F., Miklóssy, I., Ábrahám, B., Lányi, Sz. *Preparation and modelling of the structure of transferrin-Fe3+-aziridine-carboxylate complex,* Studia Universitatis "Babeş Bolyai", Seria Chemica, Special Issue 45-52, ISSN 1224-7154, 2010, (I.F.=0.231; EF: 0.000525; AI: 0.0113)

C2. Lucrări ştiinţifice publicate în reviste indexate în baze de date internaţionale (indicaţi şi baza de date)

2021

1. Orbán Kálmán Csongor, Kis Éva, Albert Csilla, Molnos Éva, Antioxidant capacity of blackcurrant (Ribes nigrum L.) leaves and buds, Acta Univ. Sapientiae Alimentaria, 14, 2021, p. 117-130, indexat în: CAB Abstracts and Global Health, Google Scholar, Foodline Science

2. Szövérfi János, Csongor Kálmán Orbán, Beáta Albert, Katalin Nagy, Pál Salamon, Szabolcs Lányi, *In Vitro Study Of The Ccmv Capsid Protein: Cloning, Expression, And Purification*, U.P.B. Sci. Bull., Series B, Vol. 83, Iss. 1, 2021

2019

3. Nagy Katalin, Orbán Kálmán-Csongor, Albert Beáta, Lányi Szabolcs, Biosynthesis BIR3 domain of inhibitor of apoptosis proteins, UPB Sci. Bull., series B, 81, Iss. 4, 2019, p.15-22, indexat în: Isi Thomson Reuters, Ulrich's International Periodicals Directory, Inspec, Scopus, Cambridge Scientific Abstracts, Chemical Abstracts Service - Division Of American Chemical Society, Elsevier Sciences's Bibliographic Databases, Metals Abstracts, Engineering Village, Publication In Engineering, Metadex, Compendex

2013

4. Ábrahám, B., Orbán, K.Cs., Dima, R., Lányi, Sz., *Heterologous expression of pullulanase from Fervidobacterium pennivorans in E. coli*, UPB Scientific Bulletin Series B: Chemistry and Materials Science, U.P.B. Sci. Bull., Series B, Vol. 75, Iss. 2, 2013 ISSN 1454-2331,

acceptat, 2012, Indexat în: SCOPUS, ELSEVIER SCIENCES'S BIBLIOGRAPHIC DATABASES, CAMBRIDGE SCIENTIFIC ABSTRACTS

C5. Lucrări ştiinţifice publicate în reviste, altele decât cele menţionate anterior

1. Albert Csilla, András Csaba Dezső, **Orbán Kálmán Csongor**, Dormán György, Az indomethacin, mint lehetőség a COVID-19 kezelésében, Magyar Kémikusok Egyesülete, Vegyészkonferencia **2022**, p. 50, ISBN: 978-615-6018-11-3
2. **Orbán, Cs.**, András, Cs., Ábrahám, B., Lányi, Sz., *Determinarea concentrației glicerolului din mediu bacterian prin metode refractometrice*, Technical Review, ISSN 1454-0746, (Műszaki Szemle), **2012**.

G. Contracte de cercetare (menţionaţi calitatea de director sau membru)

1. MANAGEMENTUL COMPLEX AL RESTURILOR VEGETALE ÎN SISTEME DE AGRICULTURĂ CONSERVATIVĂ - CERES. Finanțat de UEFISCDI: PNIIPT-PCCA-2013-4-0846, 2013-2015. Cercetător (valoare totală: 2.931.255 RON)
2. BIOPREPARATE MICROBIENE PENTRU CREȘTEREA CALITĂȚII FURAJELOR ÎNSILOZATE – SILOPREP, POS – Operațiunea 2.1.1: Proiecte de CD în parteneriat între universități/institute de cercetare și întreprinderi, POSCEE No. 565/09.09.2013. Cercetător (valoare totală 3.317.000 RON)
3. SINTEZA UNOR CHIMICALE DE BAZA ACIZI CARBOXILICI C4, C5 DIN RESURSE REGENERABILE DIN BIOMASA – BIOBUILD. Finanțat de UEFISCDI: PN-II-PCCA-2011-3.2-1367, 2012-2016. Cercetător (valoare totală: 2.079.000 RON)
4. DEZVOLTAREA UNEI TEHNOLOGII DE PRODUCȚIE DE ANTICORPI MONOCLONALI LA SEDIUL FIRMEI SC CORAX-BIONER CEU SA. Finanțat de Ministerul Investițiilor și Proiectelor Europene, POC/163/1/3, cod SMIS 2014 121101, Director proiect (valoare totală: 15,987,516.45 RON)

K. Participări la conferinţe naţionale şi internaţionale

1. Emese-Éva Bálint, Csilla Albert, Emilia Bruma, Csongor Orbán, Beáta Albert, Study of the glycosylation profile of a nivolumab biosimilar with CE- LIF, 21st International Symposium and Summer School on Bioanalysis Universitatea de Medicină, Farmacie, Științe și Tehnologie "Gheorghe Emil Palade" din Târgu Mureș, România, 10-15 iulie, 2023
2. András Csaba Dezső, Albert Csilla, Orbán Csongor, Salamon Brigitta, Dormán György, Gyógyszer-Újrapozicionálás Lehetőségek Covid-19 Kezelésben, XXVII. International Conference On Chemistry, 2021
3. Dósa Álmos, Salamon Pál, Orbán Kálmán-Csongor, Boda Francisc Andrei, Antimicrobial Peptide Biosynthesis For The Development Of A Nanofiber-Based Wound Dressings, National Conference of Young Biotechnologists „FIBOK 2018", 2018
4. Bakos Ildikó, Kékedy-Nagy László, Miklóssy Ildikó, Bodor Zsolt, Orbán KálmánCsongor, Lányi Szabolcs, GC-MS mérési módszer kidolgozása az 1,4-butándiol mikrobiológiai fermentléből való minőségi és mennyiségi meghatározására, XXII. International Conference On Chemistry, 2016
5. Bodor Zsolt, Ábrahám Beáta, Sinkler Réka, Lányi Szabolcs, Orbán Kálmán Csongor, Miklóssy Ildikó, Fermentation strategies for 1,4-butanediol production from bio-industry byproducts, 10th European Congress of Chemical Engineering, Nice, France, September 27-October 1, 2015
6. Bodor Zsolt, Miklóssy Ildikó, Sinkler Réka, Orbán Kálmán Csongor, Ábrahám Beáta, Lányi Szabolcs, Production possibilities of non-natural metabolites by genetic engineering, 20th International Conference on Chemistry, Sumuleu Ciuc, September 23-27, 2015

7. Sinkler Réka, Miklóssy Ildikó, Bodor Zsolt, Orbán Kámán Csongor, Lányi szabolcs, Ábrahám Beáta, Critical Integration of Glycerol into the Biodiesel Production Process, 19th Romanian International Conference on Chemistry and Chemical Engineering, Sibiu, September 2-5, 2015
8. Miklóssy Ildikó, Bodor Zsolt, Sinkler Réka, Orbán Kálmán Csongor, Ábrahám Beáta, Lányi Szabolcs, Contributions to Engineering a New Four-step Biosynthetic Pathway for 1,4-Butanediol in *E.coli*, 20th International Conference on Chemistry, Cluj-Napoca 6-9 noiembrie, 2014
9. Orbán Kálmán Csongor, András Csaba, Salamon Rozália, Ábrahám Beáta, Lányi Szabolcs, Developing a cheap, online methanol sensor for *Pichia* fermentations,18th International Conference on Chemistry, Baile Felix, 22-25 november, 2012
10. Orbán K. Csongor, Ábrahám Beáta, Crognale Silvia, Kovács Erika, Lányi Szabolcs, Identification and isolation of new amylase from halophilic Photobacterium sp., 7th Chemical Engineering Conference for Collaborative Research for Eastern European Countries, 27 April-1 May, Corfu, Greece, 2012
11. Ábrahám Beáta, Orbán Kálmán Csongor, Crognale Silvia, András Csaba Dezső, Lányi Szabolcs, Isolation of Amylase Gene from Halophilic Bacteria within the Vibrionaceae Family, 17th International Conference on Chemistry, Cluj-Napoca 3-6 noiembrie, 2011
12. Orbán Kálmán Csongor, Crognale Silvia, Iuhász Andrea, Albert Csilla, Lányi Szabolcs, Ábrahám Beáta, Optimization of Glucoamylase Heterologous Expression in Fermentor, 17th International Conference on Chemistry, Cluj-Napoca 3-6 november, 2011
13. Pál A., Sinkler R., Both E., Bálint E., Petres J., Orbán Cs., Ábrahám B., Lányi Sz.: Comparing the production of pullulanase in different expression systems, Conferinţa Zilele Ştiinţei, Asociaţia Muzeului Ardelean, Cluj Napoca, 20 november, 2010
14. Bálint Emese-É., Ábrahám B., Miklóssy I., Orbán Kálmán Cs., Bodor Zs., Lányi Sz., Heterologous expression of pullulanase in Escherichia coli (Expresia heterologă a pullulanazei în Escherichia coli), 15th International Conference of Chemistry, Târgu Mureş, 12-15 november, 2009
15. Bodor Zs., Kovács E., Miklóssy I., Ábrahám B., Bálint Emese-É., Orbán Kálmán Cs., Tamás É., Szilveszter Sz., Lányi Sz., Heterologous expression of alpha-amylase in Pichia pastoris, 15th International Conference of Chemistry, Târgu Mureş, 12-15 november, 2009
16. Orbán Kálmán Cs., Ábrahám B., Miklóssy I., Szilveszter Sz., Bálint Emese-É., Bodor Zs., Lányi Sz., In silico studies on structure-function correlations in a group of serin-proteinases, 15th International Conference of Chemistry, Târgu Mureş, 12-15 november, 2009
17. Ábrahám, B., Miklóssy, I., Bálint, É.E., Harai, É., Orbán, Cs., Lányi, Sz., Conservation implications for endemic and endangered species based on genetic analysis, The XVIII International Annual Symposium on Deltas and Wetlands organized by the Danube Delta National Institute for Research and Development, Tulcea, 24-25 september, 2009.

III. RECUNOAȘTEREA

I. Premii, distincţii.

-

J. Citări

Citări Google Scholar
Citări: 271
h-index= 5

23 septembrie 2026