Europass Curriculum Vitae

Personal information

First name/ Surname	**Habil. Dr. Csaba Paizs**
Address	Babeş-Bolyai University of Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Department of Chemistry and Chemical Engineering in Hungarian Language, Arany János 11, 400028 Cluj-Napoca (Romania)
Telephone	Mobile
Fax	+
E-mail	paizs@chem.ubbcluj.ro
Citizenship	+
Nationality	+Romanian
Date of birth	Hungarian
Gender	+Male

Occupational field

Professor

Work experience

Dates	01 October 1996 - 01 March 2007
Occupation or position held	Teaching assistant, Lecturer
Main activities and responsibilities	Education and research
Name and address of employer	Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)
Dates	01 March 2007 - 26 September 2015
Occupation or position held	Associate Professor
Main activities and responsibilities	Education and research
Name and address of employer	Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)
Dates	2012 →
Main activities and responsibilities	PhD supervisor in chemical science
Name and address of employer	Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)
Dates	27 September 2015 →
Occupation or position held	Professor
Main activities and responsibilities	Education and research
Name and address of employer	Babeş-Bolyai University, Mihail Kogălniceanu 1, Cluj-Napoca (Romania)

Education and training

Dates	15 March 2012→
Title of qualification awarded	Habilitated Doctor in chemical science
Dates	01 October 1996 - 15 June 2001
Title of qualification awarded	PhD Chemistry

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

Name and type of organisation providing education and training	Babeş-Bolyai University
Dates	01 October 1994 - 15 June 1995
Title of qualification awarded	Master degree in Catalysis and Biocatalysis
Name and type of organisation providing education and training	Babeş-Bolyai University
Dates	15 September 1989 - 14 June 1994
Title of qualification awarded	Chemical Engineer
Name and type of organisation providing education and training	Babeş-Bolyai University

Personal skills and competences

Mother tongue(s) **Romanian, Hungarian**

Other language(s) **English**

Self-assessment	Understanding				Speaking				Writing	
European level	Listening		Reading		Spoken interaction		Spoken production			
English	C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user

Research interests	*Synthetic Chemistry*: Stereoselective biotransformations (lipases, esterases, oxidoreductases, ammonia-lyases) *Biochemistry*: Enzyme mechanistic studies; Study of the stereoselectivity of lipases at molecular level; Application of molecular biology tools; *Biotechnology:* Development of biocatalysts (enzyme immobilizations, modifications, novel lipases, hydrolases, MIO-enzymes) – Application of microreactor systems filled with covalently immobilized enzymes for biotransformations *Analytical chemistry*: chromatographic separation of enantiomers and proteins
Teaching	Biochemistry, Enzymology, Biocatalysis, Biotechnology, Asymmetric Synthesis; (lectures, lab practice) Diploma supervisor, since 1999 (~ 5 students / year)
Organisational skills and competences	Project manager of national grants for young researchers (2), Ideas (2) and Joint Applied Research Projects (1); Project responsible of national Joint Applied Research Projects (2)
Academic administration	
Scientific organisation memberships	Romanian Chemical Society, Romanian Chemical Engineering Society, Transylvanian Hungarian Science and Technology Association,
Committee membership	National Committee for the Accreditation of Academic Titles, Degrees and Diplomas, Chemistry and Chemical Engineering section (2011-2012), COST CM1303 action (Systems Biocatalysis, SysBiocat): Romanian Member of Committee
Referee for scientific journals	*Appl. Biochem. Biotechnol. – Adv. Synth. Catal. – Biocat. Biotechnol. J. Mol. Catal. B, Enz. – Molecules – Plos-ONE – Proc. Biochem. –Tetrahedron: Asymmetry, etc .*
Activity in scientific evaluations	Project evaluations: for national level projects for Romania - CNCSIS, Hungary - OTKA and Netherland - NWO. PhD evaluations as member of evaluation committees (in Romania and Hungary)
Technical skills and competences	Development of the Biocatalysis and Asymmetric enzymatic synthesis lab. Development of the Enzymology lab.
Fellowships	*CIMO Postdoc fellowship* (University of Turku, Finland, in the group of Prof. Liisa T. Kanerva): enzymatic DKR of heteroaryl-cyanohydrins (2002) *EU granted Postdoc Fellowship* (Department of Biochemistry, University of Karlsruhe, Germany; in the group of Prof. János Rétey): MIO enzymes, transhydroxylases, phosphatases (2003-2005)

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

Scientific achievements	3 Monographs (co-author) – 2 book chapters (on MIO-enzymes and enzymatic polymerization) – 68 Scientific articles (IF ~150) – all/independent citations ~ 720/600 – h-index: 15 – 1 Romanian Patent – ~ 60 Conference lectures / posters http://www.researcherid.com/rid/C-2111-2011
Awards	The "Oláh György" prize of the Hungarian Academy of Science (2007)

Books:

1. Moldovam, P., Toșa, M. I., Let, D., Majdik, C., **Paizs, C.**, Irimie, F., D. *Aplicații pentru laboratorul de biochimie* Napoca Star, Cluj-Napoca, 2006.

2. Irimie, F., D., **Paizs, C.**, Toșa, M. I. *Biotransformări în sinteza organică,* Napoca Star, Cluj-Napoca, 2006.

3. Toșa, M. I., **Paizs, C.**, Irimie, F., D. *Bioprocese pentru obținerea medicamentelor și intermediarilor,* Napoca Star, Cluj-Napoca, 2007.

4. **Paizs, C.**, Katona, A., Brem, J., Bencze, L. C. *Insights in Pure and Applied Biocatalysis*, Napoca Star, Cluj-Napoca, 2015.

Book chapters:

1. Poppe, L., **Paizs, C.**, Kovács, K., Irimie, F. D., Vértessy, B. "Preparation of unnatural amino acids with ammonia-lyases and 2,3-aminomutases", in Methods in Molecular Biology, Vol. 794 "Unnatural amino acids", Part 1; New York: Springer Science+Business Media, **2012**, pp 3-19.

2. Irimie, F. D., **Paizs, C.**, Toşa, M. I. "Polymeric Materials Obtained through Biocatalysis, in Polymeric Biomaterials: Structure and Function", Volume 1, Eds: Dumitriu, S., Popa, V. CRC Press, USA, **2013**, pp. 617-657.

Patent:

1. Barabás, R., **Paizs, C.**, Pop, A. Fungicidal composition based on salts of the *N,N*-ethylene-bis-thiocarbamic acid and process for preparing the same (2010) **Patent Number:** RO122830-B1

Publication List:

1. Toşa, C., Miclăuş, V., Toşa, M. I., Pop, Al., **Paizs, C.** (1997)**:** Oxidation of methanol to formaldehyde on Mo-Fe oxide as catalyst. I Mathematical model of the mass balance. Revista de chimie (Bucharest) 48, 284-290. (I.f. 0.125)

2. Pop, Al., **Paizs, C.**, Toşa, C., Toşa, M. I., Miclăuş, V. (1997): Oxidation of methanol to formaldehyde on Mo-Fe oxide as catalyst. II Mathematical modeling and process analysis. Revista de chimie (Bucharest) 48, 616-620. (I.f. 0.125)

3. Irimie, F. D., **Paizs, C.**, Toşa, M. I., Afloroaiei, C., Miclăuş, V. (1997): Baker's yeast mediated reductions of some nitrodibenzofurans**.** Heterocyclic Communications 3, 549-553. (I.f.0.401)

4. Damian, G., Cozar, O., Miclăuş, V., **Paizs, C.**, Znamirovschi, V., Chiş, V., David, L. (1998): ESR Study of the dynamics of adsorbed nitroxide radicals on porous surfaces in the dehydratation process. Colloids and Surfaces A 137, 1-6. (I.f. 1.146)

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

5. Irimie, F. D., Afloroaiei, C., Toşa, M. I., **Paizs, C.** (1999): Bioreduction with baker's yeast of π-deficient heterocyclic aldehydes. Heterocyclic Communication 5, 253-256. (I.f.0.401)

6. Grosu, I., Balog, M., **Paizs, C.**, Ple, G., Irimie, F. D., Mager, S., Podea, R. (2000): Synthesis and stereochemistry of some new 1,3-dioxane derivatives obtained from 5-aryl-2-furaldehydes. Revue Roumaine de Chemie 45, 877-882. (I.f. 0.259)

7. Toşa, M. I., **Paizs, C.**, Majdik, C., Poppe, L., Kolonits, P., Silberg I. A., Novák, L., Irimie, F. D. (2001): Selective oxidation methods for preparation of N-alkylphenothiazine sulfoxides and sulfones. Heterocyclic Communications 7 277-282. (I.f. 0.352)

8. Toşa, M. I., **Paizs, C.**, Majdik, C., Moldovan, P., Novák, L., Kolonits, P., Szabó, É., Poppe, L., Irimie, F. D. (2002): Baker's yeast mediated preparation of (10-alkyl-10*H*-phenothiazin-3-yl)methanols. Journal of Molecular Catalysis B, Enzymatic 17, 241-248. (I.f. 1.408)

9. Toşa, M. I., **Paizs, C.**, Majdik, C., Novák, L., Kolonits P., Irimie, F., Poppe, L. (2002): Optically active 3-substituted-10-alkyl-10H-phenothiazine-5-oxides by enantiomer selective biotransformations. Tetrahedron: Asymmetry 13, 211-221. (I.f. 2.265)

10. Cimpoiu, C., Hodişan, T., Toşa, M. I., **Paizs, C.**, Majdik, C., Irimie F. D. (2002): Separation of *N*-alkyl-phenothiazin- sulfones by HPTLC using an optimum mobile phase. Journal of Pharmaceutical and Biomedical Analysis 28, 385-359. (I.f. 1.177)

11. Iliescu, T., Irimie, F. D., Bolboaca, M., **Paizs, C.**, Kiefer, W. (2002): Vibrational spectroscopic investigations of 5-(4-fluoro-phenyl)-furan-2-carbaldehyde. Vibrational Spectroscopy 29, 235-239. (I.f. 1.167)

12. Iliescu, T., Irimie, F. D., Bolboaca, M., **Paizs, C.**, Kiefer, W. (2002): Surface enhanced Raman spectroscopy of 5-(4-fluoro-phenyl)-furan-2-carbaldehyde adsorbed on silver colloid. Vibrational Spectroscopy 29, 251-255. (I.f. 1.167)

13. Irimie, F. D., **Paizs, C.**, Toşa, M. I., Majdik, C., Mişca, R., Silaghi-Dumitrescu, R. (2002): Bioorganic synthesis of some (5-(benzothiazole-2-yl)furan-2-yl)methanols in cell catalysis using *Saccharomyces cerevisiae*. Heterocyclic Communications 8, 489-492. (I.f. 0.352)

14. **Paizs, C.**, Toşa, M. I., Majdik, C., Bódai, V., Novák, L., Irimie, F. D., Poppe, L. (2002): Chemo-enzymatic preparation of hydroxymethyl ketones. Journal of the Chemical Society, Perkin Transactions 1 21, 2000-2002. (I.f. 2.208)

15. **Paizs, C.**, Toşa, M. I., Majdik, C., Tähtinen, P., Irimie, F. D., Kanerva, L. T. (2003): Preparation of novel furylbenzothiazol–based cyanohydrin esters: *Candida Antarctica* lipase A – catalysed kinetic and dynamic resolution. Tetrahedron: Asymmetry 14, 619-627. (I.f. 2.178)

16. **Paizs, C.**, Toşa, M. I., Majdik, C., Moldovan, P., Novák, L., Kolonits, P., Marcovici, A., Irimie, F. D., Poppe, L. (2003): Optically active 1-(benzofuran-2-yl)ethanols and ethane-1,2-diols by enantiotopic selective bioreductions. Tetrahedron: Asymmetry 14, 1495-1501. (I.f. 2.178)

17. Bolboaca, M., Iliescu, T., **Paizs, C.**, Irimie, F. D., Kiefer, W. (2003): Raman, Infrared, and Surface-Enhaced Raman Spectroscopy in Combination with *ab initio* and density functional theory calculations on 10-isopropyl-10H-phenothiazine-5-oxide. Journal of Physical Chemistry A 107, 1811-1818. (I.f. 2.792)

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

18. **Paizs, C.**, Tähtinen, P., Lundell, K., Poppe, L., Irimie, F. D., Kanerva, L. T. (2003): Preparation of novel phenylfuran-based cyanohydrin esters: lipase-catalysed kinetic and dynamic resolution. Tetrahedron: Asymmetry 14, 1895-1904. (I.f. 2.178)

19. **Paizs, C.**, Toşa, M. I., Bódai, V., Szakács, Gy., Kmecz, I., Simándi, B., Majdik, C., Novák, L., Irimie F. D., Poppe L. (2003): Kinetic resolution of 1-(benzofuran-2-yl)ethanols by lipase-catalyzed enantiomer selective reactions. Tetrahedron: Asymmetry 14, 1943-1949. (I.f. 2.178)

20. **Paizs, C.**, Tähtinen, P., Toşa, M. I., Majdik, C., Irimie, F. D., Kanerva, L. T. (2004) Biocatalytic enantioselective preparation of phenothiazine-based cyanohydrin acetates: kinetic and dynamic kinetic resolution. Tetrahedron 60, 10533-10540. (I.f. 2.643)

21. Iliescu, T., Maniu, D., Chiş, V., Irimie, F. D., **Paizs, C.**, Toşa, M. (2005) NIR surface enhanced Raman spectroscopy and bands assignment by DFT calculations of non-natural β-amino acids. Chemical Physics 310, 189-199. (I.f. 2.316)

22. **Paizs, C.,** Katona, A., Rétey, J. (2006) The Interaction of Heteroaryl-Acrylates and Alanines with Phenylalanine Ammonia-Lyase from Parsley. Chemistry, a European Journal 12, 2739-2744. (I.f. 5.015)

23. **Paizs, C.,** Katona, A., Rétey, J. (2006) Chemoenzymatic One-Pot Synthesis of Enantio-Pure L-Arylalanines From Arylaldehydes. European Journal of Organic Chemistry 1113-1116. (I.f. 2.769)

24. Katona, A., Toşa, M. I., **Paizs, C.,** Rétey, J. (2006) Inhibition of Histidine Ammonia-Lyase by Heteroaryl-alanines and Acrylates. Chemistry and Biodiversity 3, 502-508. (I.f. 1.616)

25. **Paizs, C.,** Bartlewski-Hof, U., Rétey, J. (2007) Investigation of the Mechanism of Action of Pyrogallol–Phloroglucinol Transhydroxylase by Using Putative Intermediates. Chemistry, a European Journal 13, 2805-2811. (I.f. 5.330)

26. Podea, P., Toşa, M. I., **Paizs, C.**, Irimie, F. D. (2008) Chemoenzymatic preparation of enantiopure L-benzofuranyl- and L-benzo[*b*]thiophenyl alanines. Tetrahedron: Asymmetry 19, 500-511. (I.f. 2.796)

27. Toşa, M. I., Pilbák, S., Moldovan, P., **Paizs, C.**, Szatzker, G., Szakács, Gy., Novák, L., Irimie, F. D., Poppe, L. (2008) Lipase-catalyzed kinetic resolution of racemic 1-heteroarylethanols-experimental and QM/MM study. Tetrahedron: Asymmetry 19, 1844-1852. (I.f. 2.796)

28. Podea, P., **Paizs, C.**, Toşa, M. I., Irimie, F. D. (2008) Baker's yeast-mediated synthesis of (*R*)- and (*S*)-heteroaryl-ethane-1,2-diols. Tetrahedron: Asymmetry 19, 1959-1964. (I.f. 2.796).

29. Toşa, M. I., Podea, P., **Paizs, C.**, Irimie, F. D. (2008) Chemoenzymatic synthesis of (*R*)- and (*S*)-1-heteroarylethanols. Tetrahedron: Asymmetry 19, 2068-2071. (I.f. 2.796).

30. **Paizs, C.**, Diemer, T., Rétey, J. (2008) The putative coenzyme B_{12}-dependent methylmalonyl-CoA mutase from potatoes is a phosphatase. Bioorganic Chemistry 36, 261-264. (I.f. 1.985).

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

31. Brem, J. **Paizs, C.**, Toşa, M. I., Vass, E., Irimie, F. D. (2009) Enzyme-catalysed synthesis of (*R*)- and (*S*)-3-heteroaryl-3-hydroxy-propanoic acids and their derivatives. Tetrahedron: Asymmetry 20, 489-496. (I.f. 2.625)

32. Irimie, F. D., **Paizs, C.**, Toşa, M. I., Podea, P. (2009) New ways for old structures. Studia Universitatis Babeş-Bolyai, Chemia 54, 7-16. (I.f. 0.086)

33. Sandu, D., Lingvay, I., Lányi, Sz., Micu, D. D., Popescu, C. L., Brem, J. Bencze, L. C., **Paizs, C.** (2009) The effect of electromagnetic fields on baker's yeast population dynamics, biocatalytic activity and selectivity. Studia Universitatis Babeş-Bolyai, Chemia 54, 195-201. (I.f. 0.086)

34. Bencze L. C., **Paizs, C.**, Toşa, M. I., Irimie, F. D. (2010) Substituent effects on the stereochemical outcome of the baker's yeast-mediated biotransformation of α-hydroxy- and α-acetoxymethyl-5-phenylfuran-2-yl-ethanones. Tetrahedron: Asymmetry 21, 356-364. (I.f. 2.484)

35. Brem, J. Toşa, M. I., **Paizs, C.**, Vass, E., Irimie, F. D. (2010) Enzyme-catalyzed synthesis of (*R*)- and (*S*)-3-hydroxy-3-(10-alkyl-10*H*-phenothiazin-3-yl)propanoic acids. Tetrahedron: Asymmetry 21, 365-373. (I.f. 2.484)

36. Bencze L. C., **Paizs, C.**, Toşa, M. I., Vass, E., Irimie, F. D. (2010) Synthesis of enantiomerically enriched (*R*)- and (*S*)-benzofuranyl- and benzo[*b*]thiophenyl-1,2-ethanediols *via* enantiopure cyanohydrins as intermediates. Tetrahedron: Asymmetry 21, 443-450. (I.f. 2.484)

37. Brem, J., Toşa, M. I., **Paizs, C.**, Munceanu, A., Matković-Čalogović, D., Irimie, F. D. (2010) Lipase-catalyzed kinetic resolution of racemic 1-(10-alkyl-10H-phenothiazin-3-yl)ethanols and their butanoates. Tetrahedron: Asymmetry 21, 1993-1998. (I.f. 2.484)

38. Bencze L. C., **Paizs, C.**, Toşa, M. I., Trif, M., Irimie, F. D. (2010) CaL-B a highly selective biocatalyst for the kinetic resolution of furylbenzthiazole-2-yl ethanols and acetates. Tetrahedron: Asymmetry 21, 1999-2004. (I.f. 2.484)

39. **Paizs, C.**, Toşa, M. I., Bencze L. Cs., Brem, J., Irimie, F. D., Rétey, J. (2011) 2-Amino-3-(5-phenylfuran-2-yl) propanoic acids and 5-phenylfuran-2-yl acrylic acids are novel substrates of phenylalanine-ammonia-lyase. Heterocycles 82, 1217-1228. (I.f. 0.999)

40. Bencze, L. C., **Paizs, C.**, Toşa, M. I., Irimie, F. D. Rétey, J. (2011) Chemoenzymatic One-Pot Synthesis of both (*R*)- and (*S*)-aryl-1,2-ethanediols. ChemCatChem 3, 343-346. (I.f. 5.207)

41. Brem, J., Liljeblad, A., **Paizs, C.**, Toşa, M. I., Irimie, F. D., Kanerva, L. T. (2011) Lipases A and B from *Candida antarctica* in the enantioselective acylation of ethyl 3-heteroaryl-3-hydroxypropanoates: aspects on the preparation and enantiopreference. Tetrahedron: Asymmetry 22, 315-322. (I.f. 2.652)

42. Bencze, L. C., **Paizs, C.**, Toşa, M. I., Irimie, F. D. (2011) Sequential use of regio- and stereoselective lipases for the efficient kinetic resolution of racemic 1-(5-phenylfuran-2-yl)ethane-1,2-diols. Tetrahedron: Asymmetry 22, 675-683. (I.f. 2.652)

43. Brem, J., Pilbák, S., **Paizs, C.**, Bánoczi, G., Irimie, F. D., Toşa, M. I., Poppe, L. (2011) Lipase-catalyzed kinetic resolutions of racemic 1-(10-ethyl-10*H*-phenothiazin-1,2, and 4-yl)ethanols and their acetates. Tetrahedron: Asymmetry 22, 916-923. (I.f. 2.652)

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

44. Gog, A., Chintoanu, M., Roman, M., Luca, E., **Paizs C.**, Irimie, F. D. (2011) Biodiesel Production from Sunflower Oil with *Candida antarctica* Lipase B. Studia Universitatis Babeş-Bolyai, Chemia 56, 71-79. (I.f. 0.129)

45. Pop, L. A., Czompa, A., **Paizs, C.**, Toşa, M. I., Vass, E., Mátyus, P., Irimie, F. D. (2011) Lipase-Catalyzed Synthesis of Both Enantiomers of 3-Chloro-1-arylpropan-1-ols Synthesis 2011, 2921-2928. (I.f. 2.466)

46. Brem, J., Naghi, M., Toşa, M. I., Boros, Z., Poppe, L., Irimie, F. D., **Paizs, C.*** (2011) Lipase mediated sequential resolution of aromatic β-hydroxy esters using fatty acid derivatives. Tetrahedron: Asymmetry 22, 1672-1679. (I.f. 2.652)

47. Brem, J., Turcu, M. C., **Paizs, C.**, Lundell, K., Toşa, M. I., Irimie, F. D., Kanerva, L. T. (2012) Immobilization to improve the properties of *Pseudomonas fluorescens* lipase for the kinetic resolution of 3-aryl-3-hydroxy esters. Process Biochemistry 47, 119-126. (I.f. 2.627)

48. Gog, A., Roman, M., Toşa, M. I., **Paizs C.**, Irimie, F. D. (2012) Biodiesel production using enzymatic transesterification - Current state and perspectives. Renewable Energy 39, 10-16. (I.f. 2.978)

49. Naghi, M., Bencze, L. C., Brem, J., **Paizs C.**, Irimie, F. D., Toşa, M.I. (2012) Sequential enzymatic procedure for the preparation of enantiomerically pure 2-heteroaryl-2-hydroxyacetic acids. Tetrahedron: Asymmetry 23, 181-187. (I.f. 2.652)

50. Brem, J., Bencze, L. C., Liljeblad, A., Turcu, M.C., **Paizs C.**, Irimie, F. D., Kanerva, L.T. (2012) Chemoenzymatic Preparation of 1-Heteroarylethanamines of Low Solubility. European Journal of Organic Chemistry 17, 3288–3294. (I.f. 3.329)

51. Toşa, M.I., Brem, J., Mantu, A., Irimie, F. D., **Paizs C.***, Rétey, J. (2013) The Interaction of Nitrophenylalanines with Wild Type and Mutant 4-Methylideneimidazole-5-one-less Phenylalanine Ammonia Lyase. ChemCatChem 5, 779-783. (I.f. 5.044)

52. Hara, P., Turcu, M., Sundell, R., Toşa, M. I., **Paizs, C.**, Irimie, F. D., Kanerva, L. T. (2013) Lipase-catalyzed asymmetric acylation in the chemoenzymatic synthesis of furan-based alcohols. Tetrahedron: Asymmetry 24, 142-150. (I.f. 2.165)

53. Nagy, B., Dima, N., **Paizs, C.**, Brem, J., Irimie, F. D., Toşa, M. I. (2014) New chemo-enzymatic approaches for the synthesis of (*R*)- and (*S*)-bufuralol. Tetrahedron: Asymmetry 25, 1316-1322. (I.f. 2.165)

54. Weiser, D., Varga, A., Kovács, K., Nagy, F., Szilágyi, A., Vértessy, B., **Paizs, C.**, Poppe, L. (2014) Bisepoxide Cross-Linked Enzyme Aggregates-New Immobilized Biocatalysts for Selective Biotransformations. ChemCatChem 6, 1463-1469. (I.f. 4.556)

55. Kovács, K., Bánoczi, G., Varga, A., Szabó, I., Holzinger, A., Hornyánszki, G., Zagyva, I., **Paizs, C.***, Vértessy, B., Poppe, L. (2014) Expression and Properties of the Highly Alkalophilic Phenylalanine Ammonia-Lyase of Thermophilic *Rubrobacter xylanophilus*. Plos One 9, e85943. (I.f. 3.234)

56. Boros, Z., Abaháziová, E., Weiser, D., Kovács, P., **Paizs, C.***, Poppe, L. (2014) Surface modification of silica gels for selective adsorption of bacterial lipases. Studia Universitatis Babeş-Bolyai, Chemia 59(4), 33-38. (I.f. 0.136)

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

57. Bartha-Vári, J., Toşa, M. I., Irimie, F. D., Weiser, D., Boros, Z., **Paizs, C.***, Poppe, L. (2015) Immobilization of phenylalanine ammonia-lyase on single-walled carbon nanotubes for stereoselective biotransformations in batch and in continuous-flow modes. ChemCatChem 7, 1122-1128. (I.f. 4.724)

58. Leonte, D., Bencze, L. C., **Paizs, C.**, Irimie, F. D., Zaharia, V. (2015) Heterocycles 38. Biocatalytic synthesis of new heterocyclic mannich bases and derivatives. Molecules, 20, 12300-12313. (I.f. 2.465)

59. Bencze, L. C., Komjáti, B., Pop, L. A., **Paizs, C.**, Irimie, F. D., Nagy, J., Poppe, L., Toşa, M. I. (2015) Synthesis of enantiopure L-(5-phenylfuran-2-yl)alanines by a sequential multienzyme process. Tetrahedron: Asymmetry 26, 1095-1101. (I.f. 2.115)

60. Weiser, D., Bencze, L. C., Bánóczi, G., Ender, F., Kiss, R., Kókai, E., Szilágyi, A., Vértessy, B. G., Farkas, Ö., **Paizs C.***, Poppe, L. (2015) Phenylalanine ammonia-lyase catalyzed deamination of an acyclic amino acid - Enzyme mechanistic studies aided by a novel microreactor filled with magnetic nanoparticles. ChemBioChem, 16, 2283-2288. (I.f. 2.850)

61. Bencze, L. C., Bartha-Vári, J., Katona, G., Toşa, M. I., **Paizs, C.**, Irimie, F. D. (2016) Nanobioconjugates of *Candida antarctica* lipase B and single-walled carbon nanotubes in biodiesel production. Bioresource Technology, 200, 853-860. (I.f. 4.917)

62. Leonte, D., Bencze, L. C., **Paizs, C.**, Toşa, M. I., Zaharia, V., Irimie, F. D. (2016) Heterocycles 36. Single-Walled Carbon Nanotubes-Bound *N*,*N*-Diethyl Ethanolamine as Mild and Efficient Racemisation Agent in the Enzymatic DKR of 2-Arylthiazol-4-yl-alanines. Molecules, 21, 25. (I.f. 2.465)

63. Ender, F., Weiser, D., Nagy, B., Bencze, L. C., **Paizs, C.**, Pálovics, P., Poppe, L. (2016) Microfluidic Multiple Cell Chip Reactor Filled with Enzyme-coated Magnetic Nanoparticles — An Efficient and Flexible Novel Tool for Enzyme Catalyzed Biotransformations. Journal of Flow Chemistry, 6, 43-52. (I.f. 1.942)

64. Varga, A., Bánoczi, G., Nagy, B., Bencze, L. C., Toşa, M. I., Gellért, Á., Irimie, F. D., Rétey, J., Poppe, L., **Paizs, C.*** (2016) Influence of the aromatic moiety in α- and β-arylalanines on their biotransformation with phenylalanine 2,3-aminomutase from *Pantoea agglomerans*. RSC: Advances, 6, 56412-56420. (I.f. 3.289)

65. Czikó, M., Bogya, E S., **Paizs, C.**, Katona, G., Konya, Z., Kukovecz, Á., Barabás, R. (2016) Albumin adsorption study onto hydroxyapatite-multiwall carbon nanotube based composites. Materials Chemistry and Physics, 180, 314-325. (I.f. 2.101)

66. Varga, A., Filip, A., Bencze, L. C., Sátorhelyi, P., Bell, E., Vértessy, B., Poppe, L., **Paizs, C.*** (2016) Expression and Purification of Recombinant Phenylalanine 2,3-Aminomutase from *Pantoea agglomerans*. Studia Universitatis Babeş-Bolyai, Chemia, 51, 2, 7-19. (I.f. 0.148)

67. Dima, N., Filip, A., Bencze, L. C., Oláh, M., Sátorhelyi, P., Vértessy, B., Poppe, L., **Paizs, C.*** (2016) Expression and Purification of Recombinant Phenylalanine Ammonia Lyase from *Petroselinum crispum*. Studia Universitatis Babeş-Bolyai, Chemia, 51, 2, 21-34. (I.f. 0.148)

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010

68. Bódai, V., Nagy-Győr, L., Örkényi, R., Molnár, Z., Kohári, S., Erdélyi, B., Nagymáté, Z., Romsics, C., **Paizs**, **C**., Poppe, L., Hornyánszky, G. (2016) *Wickerhamomyces subpelliculosus* as whole-cell biocatalyst for stereoselective bioreduction of ketones. Journal of Molecular Catalysis B: Enzymatic, 136, 206-214. (I. f. 2.189)

For more information on Europass go to http://europass.cedefop.europa.eu
© European Union, 2002-2010 24082010