



Europass Curriculum Vitae

Personal information

First name/ Surname

Habil. Dr. Csaba Paizs

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Citizenship

Romanian

Nationality

Hungarian

Date of birth

01 April 1969

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

2013 →

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

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																
European level																
English	<table border="1"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th>Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> </tr> </thead> <tbody> <tr> <td>C2 Proficient user</td> <td>C2 Proficient user</td> <td>C2 Proficient user</td> <td>C1 Proficient user</td> <td>C2 Proficient user</td> </tr> </tbody> </table>	Understanding		Speaking		Writing	Listening	Reading	Spoken interaction	Spoken production		C2 Proficient user	C2 Proficient user	C2 Proficient user	C1 Proficient user	C2 Proficient user
Understanding		Speaking		Writing												
Listening	Reading	Spoken interaction	Spoken production													
C2 Proficient user	C2 Proficient user	C2 Proficient user	C1 Proficient user	C2 Proficient user												
Research interests	<p><i>Synthetic Chemistry:</i> Stereoselective biotransformations (lipases, esterases, oxidoreductases, ammonialyases and mutases, transaminases, decarboxilases, etc.)</p> <p><i>Biochemistry:</i> Enzyme mechanistic studies; Study of the stereoselectivity of enzymatic reactions at molecular level; Rational design of the enzymes, Application of molecular biology tools;</p> <p><i>Biotechnology:</i> Development of biocatalysts (enzyme immobilizations, modifications, novel lipases, hydrolases, MIO-enzymes, oxido-reductases, transaminases, decarboxylases, etc.) – Development of enzymatic networks, Enzyme immobilization, Development of integrated (multi)enzymatic micro- and minireactor systems with down-stream units for stereoselective biotransformations</p> <p><i>Analytical chemistry:</i> chromatographic separation of enantiomers and proteins</p>															
Teaching	<p>Biochemistry, Enzymology, Biocatalysis, Biotechnology, Asymmetric Synthesis; (lectures, lab practice)</p> <p>Diploma supervisor since 1999 (~ 5 students / year), PhD supervisor since 2014 (4 active PhD students, 3 former PhD students, all awarded with the title of PhD in Chemistry, qualifications: 1 very good, 2 excellent)</p>															
Organisational skills and competences	<p>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)</p>															
Academic administration	Director of the Department of Chemistry and Chemical Engineering in Hungarian Language															
Scientific organisation memberships	<p>Romanian Chemical Society, Romanian Chemical Engineering Society, Transylvanian Hungarian Science and Technology Association, Regular member of the European Federation of Biotechnology, Section on Applied Biocatalysis since 2019</p>															
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	<i>Reaction Chemistry and Engineering, Appl. Biochem. Biotechnol., Adv. Synth. Catal., Biocat. Biotechnol., J. Mol. Catal. B, Enzym., Catal. Lett. Plos-ONE, Proc. Biochem., Tetrahedron: Asymmetry, Nature Catalysis, etc.</i>															

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, Genetics and Proteomic lab. Development of Chromatography lab for Chiral separation, Development of Flow Chemistry 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)
Scientific achievements	4 Monographs (co-author) – 4 book chapters (on MIO-enzymes, biofuels and enzymatic polymerization) – 99 Scientific articles (IF ~300) –citations ~ 1480 (Scopus, h-index: 21), ~1330 (Web of Science h-index: 20), ~1900 (Google Scholar, h-index: 22)– 1 Patent – ~ 65 Conference lectures / posters
Awards	The “Oláh György” prize of the Hungarian Academy of Science (2007)

Books:

1. Moldovan, P., Toşa, 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., Toşa, M. I. *Biotransformări în sinteza organică*, Napoca Star, Cluj-Napoca, 2006.
3. Toşa, 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., Vértesy, 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.
3. Irimie, F. D., Paizs, C., Toşa, M. I., Bencze, L. C. "Biodiesel, a Green Fuel Obtained Through Enzymatic Catalysis", in Biomass as Renewable Raw Material to Obtain Bioproducts of High-tech Value Eds: Popa, V., Volf, I. Elsevier, Netherlands, 2018, pp. 191-234.
4. Nagy, E. Z. A., Tork, S. D., Filip, A., Poppe, L., Toşa, M. I., Paizs, C., Bencze, L. C. "Production of L-and D-Phenylalanine Analogues Using Tailored Phenylalanine Ammonia-Lyases", in Applied Biocatalysis: The Chemist's Enzyme Toolbox vol. 42 (4), Eds: Whittall, J., Sutton, P. W. John Wiley & Sons, New-York, USA, 2020, pg. 215.

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)
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-10H-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., Mișca, 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) *Candida antarctica* lipase A in the dynamic resolution of novel furylbenzotiazol-based cyanohydrin acetates. *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-Enhanced 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)
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 L-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 B₁₂-dependent methylmalonyl-CoA mutase from potatoes is a phosphatase. *Bioorganic Chemistry* 36, 261-264. (I.f. 1.985).
31. Brem, J. Paizs, C., Toşa, M. I., Vass, E., Irimie, F. D. (2009) Enzyme-catalysed synthesis of (*R*)- and (*S*)-3-heteroaryl-3-hydroxypropanoic 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. Cs., 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. Cs., 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-10H-phenothiazin-3-yl)propanoic acids. *Tetrahedron: Asymmetry* 21, 365-373. (I.f. 2.484)
36. Bencze L. Cs., 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. C., 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. Cs., 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 enantioselection. *Tetrahedron: Asymmetry* 22, 315-322. (I.f. 2.652)
42. Bencze, L. Cs., 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-10H-phenothenothiazin-1,2, and 4-yl)ethanols and their acetates. *Tetrahedron: Asymmetry* 22, 916-923. (I.f. 2.652)
44. Gog, A., Chintanu, 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. Cs., 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. Cs., 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., Vértesy, 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)
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