Csaba Paizs

List of Publications by Year
in descending order

107 papers	1,948 citations	257429 24 h-index	315719 38 g-index
112 all docs	112 docs citations	112 times ranked	1926 citing authors

#	Article	IF	Citations
1	Deep eutectic solvents â€“ a new additive in the encapsulation of lipase B from Candida antarctica: biocatalytic applications. Reaction Chemistry and Engineering, 2022, 7, 442-449.	3.7	2
2	Crossâ€Linked Enzymeâ€Adhered Nanoparticles (CLEANs) for Continuousâ€Flow Bioproduction. ChemSusChem, 2022, 15, .	6.8	6
3	MÃ¶ssbauer study of some novel iron-bis-glyoxime and iron-tris-glyoxime complexes. Hyperfine Interactions, 2022, 243, 1.	0.5	2
4	A novel phenylalanine ammonia-lyase from Pseudozyma antarctica for stereoselective biotransformations of unnatural amino acids. Catalysis Today, 2021, 366, 185-194.	4.4	12
5	Robust, site-specifically immobilized phenylalanine ammonia-lyases for the enantioselective ammonia addition of cinnamic acids. Catalysis Science and Technology, 2021, 11, 5553-5563.	4.1	7
6	Substrate Tunnel Engineering Aided by X-ray Crystallography and Functional Dynamics Swaps the Function of MIO-Enzymes. ACS Catalysis, 2021, 11, 4538-4549.	11.2	21
7	Green Process for the Enzymatic Synthesis of Aroma Compounds Mediated by Lipases Entrapped in Tailored Solâ€“Gel Matrices. ACS Sustainable Chemistry and Engineering, 2021, 9, 5461-5469.	6.7	10
8	Characterization of Yeast Strains with Ketoreductase Activity for Bioreduction of Ketones. Periodica Polytechnica: Chemical Engineering, 2021, 65, 299-307.	1.1	2
9	Lipase on carbon nanotubes â€“ an active, selective, stable and easy-to-optimize nanobiocatalyst for kinetic resolutions. Reaction Chemistry and Engineering, 2021, 6, 2391-2399.	3.7	2
10	Oscillations and collective behavior in convective flows. Physics of Fluids, 2021, 33, .	4.0	6
11	Solvent-Free Biocatalytic Synthesis of 2,5-bis-(Hydroxymethyl)Furan Fatty Acid Diesters from Renewable Resources. ACS Sustainable Chemistry and Engineering, 2020, 8, 1611-1617.	6.7	15
12	Magnetic Nanoparticles with Dual Surface Functionsâ€”Efficient Carriers for Metalloporphyrin-Catalyzed Drug Metabolite Synthesis in Batch and Continuous-Flow Reactors. Nanomaterials, 2020, 10, 2329.	4.1	6
13	Fluorescent enzyme-coupled activity assay for phenylalanine ammonia-lyases. Scientific Reports, 2020, 10, 18418.	3.3	7
14	Flickering candle flames and their collective behavior. Scientific Reports, 2020, 10, 21305.	3.3	11
15	Conservation of the Biocatalytic Activity of Whole Yeast Cells by Supported SolÂâ€“ÂGel Entrapment for Efficient AcyloinÂCondensation. Periodica Polytechnica: Chemical Engineering, 2020, 64, 153-161.	1.1	4
16	Efficient Biodiesel Production Catalyzed by Nanobioconjugate of Lipase from Pseudomonas fluorescens. Molecules, 2020, 25, 651.	3.8	25
17	Efficient and Stable Magnetic Chitosan-Lipase B from Candida Antarctica Bioconjugates in the Enzymatic Kinetic Resolution of Racemic Heteroarylethanols. Molecules, 2020, 25, 350.	3.8	20
18	Mapping the Hydrophobic Substrate Binding Site of Phenylalanine Ammonia-Lyase from Petroselinum crispum. ACS Catalysis, 2019, 9, 8825-8834.	11.2	28

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19	Liver-on-a-Chipâ€'Magnetic Nanoparticle Bound Synthetic Metalloporphyrin-Catalyzed Biomimetic Oxidation of a Drug in a Magnechip Reactor. Micromachines, 2019, 10, 668.	2.9	10
20	Exploring the substrate scope of ferulic acid decarboxylase (FDC1) from Saccharomyces cerevisiae. Scientific Reports, 2019, 9, 647.	3.3	14
21	Immobilized Whole-Cell Transaminase Biocatalysts for Continuous-Flow Kinetic Resolution of Amines. Catalysts, 2019, 9, 438.	3.5	33
22	The production of l- and d-phenylalanines using engineered phenylalanine ammonia lyases from Petroselinum crispum. Scientific Reports, 2019, 9, 20123.	3.3	23
23	How to Turn Yeast Cells into a Sustainable and Switchable Biocatalyst? On-Demand Catalysis of Ketone Bioreduction or Acyloin Condensation. ACS Sustainable Chemistry and Engineering, 2019, 7, 19375-19383.	6.7	11
24	â€œFishing and Huntingâ€â€"Selective Immobilization of a Recombinant Phenylalanine Ammonia-Lyase from Fermentation Media. Molecules, 2019, 24, 4146.	3.8	13
25	â€œGelÃnderâ€•macrocycles: Synthesis, chirality and racemisation barriers. Tetrahedron Letters, 2019, 60, 335-340.	1.4	3
26	A predictive toxicity study of PEIS, PAMAM and ZAC dendrimers. Studia Universitatis Babes-Bolyai Chemia, 2019, 64, 499-508.	0.2	0
27	Continuous-flow enzymatic kinetic resolution mediated by a lipase nanobioconjugate. Studia Universitatis Babes-Bolyai Chemia, 2019, 64, 79-86.	0.2	1
28	Bioactive 3D Structure of Phenylalanine Ammonia-Lyase Reveal Key Insights into Ligand Binding Dynamics. Biophysical Journal, 2018, 114, 406a.	0.5	9
29	Covalently immobilized Trp60Cys mutant of Ï‰-transaminase from Chromobacterium violaceum for kinetic resolution of racemic amines in batch and continuous-flow modes. Biochemical Engineering Journal, 2018, 132, 270-278.	3.6	29
30	Pseudomonas fluorescens Strain R124 Encodes Three Different MIO Enzymes. ChemBioChem, 2018, 19, 411-418.	2.6	11
31	Tailored Mutants of Phenylalanine Ammoniaâ€Lyase from Petroselinum crispum for the Synthesis of Bulky <scp>l</scp>â€•and <scp>d</scp>â€Arylalanines. ChemCatChem, 2018, 10, 2627-2633.	3.7	18
32	Chemoenzymatic Dynamic Kinetic Resolution of Amines in Fully Continuous-Flow Mode. Organic Letters, 2018, 20, 8052-8056.	4.6	21
33	Coâ€immobilized Whole Cells with Ï‰â€Transaminase and Ketoreductase Activities for Continuousâ€Flow Cascade Reactions. ChemBioChem, 2018, 19, 1845-1848.	2.6	27
34	Biodiesel, a Green Fuel Obtained Through Enzymatic Catalysis. , 2018, , 191-234.		1
35	Eco-Friendly Enzymatic Production of 2,5-Bis(hydroxymethyl)furan Fatty Acid Diesters, Potential Biodiesel Additives. ACS Sustainable Chemistry and Engineering, 2018, 6, 11353-11359.	6.7	33
36	Click reaction-aided enzymatic kinetic resolution of secondary alcohols. Reaction Chemistry and Engineering, 2018, 3, 790-798.	3.7	4

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37	Structural snapshots of multiple enzymeâ€“ligand complexes pave the road for semi-rational enzyme engineering. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e37-e38.	0.1	0
38	A Methylidene Group in the Phosphonic Acid Analogue of Phenylalanine Reverses the Enantiopreference of Binding to Phenylalanine Ammoniaâ€Lyases. Advanced Synthesis and Catalysis, 2017, 359, 2109-2120.	4.3	9
39	Covalently Immobilized Lipases are Efficient Stereoselective Catalysts for the Kinetic Resolution of racâ€(5â€Phenylfuranâ€2â€yl)â€Î²â€alanine Ethyl Ester Hydrochlorides. European Journal of Organic Chemistry, 2017, 2017, 2878-2882.	2.4	7
40	Expanding the substrate scope of phenylalanine ammonia-lyase from Petroselinum crispum towards styrylalanines. Organic and Biomolecular Chemistry, 2017, 15, 3717-3727.	2.8	28
41	Tailored solâ€“gel immobilized lipase preparates for the enzymatic kinetic resolution of heteroaromatic alcohols in batch and continuous flow systems. RSC Advances, 2017, 7, 52977-52987.	3.6	5
42	Aminated Single-walled Carbon Nanotubes as Carrier for Covalent Immobilization of Phenylalanine Ammonia-lyase. Periodica Polytechnica: Chemical Engineering, 2017, 61, 59.	1.1	13
43	Validated LC-MS/MS Method for the Concomitant Determination of Amoxicillin and Clavulanic Acid from Human Plasma. Studia Universitatis Babes-Bolyai Chemia, 2017, 62, 167-178.	0.2	2
44	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, 2016, 21, 25.	3.8	2
45	Microfluidic multiple cell chip reactor filled with enzyme-coated magnetic nanoparticles â€" An efficient and flexible novel tool for enzyme catalyzed biotransformations. Journal of Flow Chemistry, 2016, 6, 43-52.	1.9	38
46	Wickerhamomyces subpelliculosus as whole-cell biocatalyst for stereoselective bioreduction of ketones. Journal of Molecular Catalysis B: Enzymatic, 2016, 134, 206-214.	1.8	6
47	Albumin adsorption study onto hydroxyapatite-multiwall carbon nanotube based composites. Materials Chemistry and Physics, 2016, 180, 314-325.	4.0	8
48	Influence of the aromatic moiety in Î±- and Î²-arylalanines on their biotransformation with phenylalanine 2,3-aminomutase from Pantoea agglomerans. RSC Advances, 2016, 6, 56412-56420.	3.6	6
49	Nanobioconjugates of Candida antarctica lipase B and single-walled carbon nanotubes in biodiesel production. Bioresource Technology, 2016, 200, 853-860.	9.6	59
50	Phenylalanine Ammoniaâ€Lyaseâ€Catalyzed Deamination of an Acyclic Amino Acid: Enzyme Mechanistic Studies Aided by a Novel Microreactor Filled with Magnetic Nanoparticles. ChemBioChem, 2015, 16, 2283-2288.	2.6	46
51	Heterocycles 38. Biocatalytic Synthesis of New Heterocyclic Mannich Bases and Derivatives. Molecules, 2015, 20, 12300-12313.	3.8	8
52	Immobilization of Phenylalanine Ammoniaâ€Lyase on Singleâ€Walled Carbon Nanotubes for Stereoselective Biotransformations in Batch and Continuousâ€Flow Modes. ChemCatChem, 2015, 7, 1122-1128.	3.7	43
53	Synthesis of enantiopure l-(5-phenylfuran-2-yl)alanines by a sequential multienzyme process. Tetrahedron: Asymmetry, 2015, 26, 1095-1101.	1.8	5
54	Bisepoxide Crossâ€Linked Enzyme Aggregatesâ€"New Immobilized Biocatalysts for Selective Biotransformations. ChemCatChem, 2014, 6, 1463-1469.	3.7	14

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55	New chemo-enzymatic approaches for the synthesis of (R)- and (S)-bufuralol. Tetrahedron: Asymmetry, 2014, 25, 1316-1322.	1.8	11
56	Expression and Properties of the Highly Alkalophilic Phenylalanine Ammonia-Lyase of Thermophilic Rubrobacter xylanophilus. PLoS ONE, 2014, 9, e85943.	2.5	24
57	Lipase-catalyzed asymmetric acylation in the chemoenzymatic synthesis of furan-based alcohols. Tetrahedron: Asymmetry, 2013, 24, 142-150.	1.8	15
58	The Interaction of Nitrophenylalanines with Wild Type and Mutant 4â€Methylideneimidazoleâ€5â€oneâ€less Phenylalanine Ammonia Lyase. ChemCatChem, 2013, 5, 779-783.	3.7	2
59	Polymeric Materials Obtained through Biocatalysis. , 2013, , 617-658.		0
60	Preparation of Unnatural Amino Acids with Ammonia-Lyases and 2,3-Aminomutases. Methods in Molecular Biology, 2012, 794, 3-19.	0.9	26
61	Chemoenzymatic Preparation of 1â€Heteroarylethanamines of Low Solubility. European Journal of Organic Chemistry, 2012, 2012, 3288-3294.	2.4	18
62	Biodiesel production using enzymatic transesterification â€“ Current state and perspectives. Renewable Energy, 2012, 39, 10-16.	8.9	358
63	Sequential enzymatic procedure for the preparation of enantiomerically pure 2-heteroaryl-2-hydroxyacetic acids. Tetrahedron: Asymmetry, 2012, 23, 181-187.	1.8	5
64	Immobilization to improve the properties of Pseudomonas fluorescens lipase for the kinetic resolution of 3-aryl-3-hydroxy esters. Process Biochemistry, 2012, 47, 119-126.	3.7	22
65	Lipase mediated sequential resolution of aromatic Î²-hydroxy esters using fatty acid derivatives. Tetrahedron: Asymmetry, 2011, 22, 1672-1679.	1.8	16
66	Chemoenzymatic Oneâ€Pot Synthesis of both (R)â€and (S)â€Arylâ€1,2â€ethanediols. ChemCatChem, 2011, 3, 343-346.	3.7	6
67	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, 2011, 22, 315-322.	1.8	29
68	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, 2011, 22, 675-683.	1.8	7
69	Lipase-catalyzed kinetic resolutions of racemic 1-(10-ethyl-10H-phenothiazin-1,2, and 4-yl)ethanols and their acetates. Tetrahedron: Asymmetry, 2011, 22, 916-923.	1.8	15
70	Lipase-Catalyzed Synthesis of Both Enantiomers of 3-Chloro-1-arylpropan-1-ols. Synthesis, 2011, 2011, 2921-2928.	2.3	1
71	Lipase-catalyzed kinetic resolution of racemic 1-(10-alkyl-10H-phenothiazin-3-yl)ethanols and their butanoates. Tetrahedron: Asymmetry, 2010, 21, 1993-1998.	1.8	17
72	Synthesis of enantiomerically enriched (R)- and (S)-benzofuranyl- and benzo[b]thiophenyl-1,2-ethanediols via enantiopure cyanohydrins as intermediates. Tetrahedron: Asymmetry, 2010, 21, 443-450.	1.8	10

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73	Substituent effects on the stereochemical outcome of the bakerâ€™s yeast-mediated biotransformation of Î±-hydroxy- and Î±-acetoxymethyl-5-phenylfuran-2-yl-ethanones. Tetrahedron: Asymmetry, 2010, 21, 356-364.	1.8	12
74	Enzyme-catalyzed synthesis of (R)- and (S)-3-hydroxy-3-(10-alkyl-10H-phenothiazin-3-yl)propanoic acids. Tetrahedron: Asymmetry, 2010, 21, 365-373.	1.8	17
75	CaL-B a highly selective biocatalyst for the kinetic resolution of furylbenzthiazole-2-yl-ethanols and acetates. Tetrahedron: Asymmetry, 2010, 21, 1999-2004.	1.8	15
76	2-Amino-3-(5-phenylfuran-2-yl)propionic Acids and 5-Phenylfuran-2-ylacrylic Acids are Novel Substrates of Phenylalanine Ammonia-Lyase. Heterocycles, 2010, 82, 1217.	0.7	13
77	Enzyme-catalyzed synthesis of (R)- and (S)-3-heteroaryl-3-hydroxy-propanoic acids and their derivatives. Tetrahedron: Asymmetry, 2009, 20, 489-496.	1.8	17
78	Chemoenzymatic synthesis of (R)- and (S)-1-heteroarylethanols. Tetrahedron: Asymmetry, 2008, 19, 2068-2071.	1.8	16
79	The putative coenzyme B12-dependent methylmalonyl-CoA mutase from potatoes is a phosphatase. Bioorganic Chemistry, 2008, 36, 261-264.	4.1	2
80	Chemoenzymatic preparation of enantiopure l-benzofuranyl- and l-benzo[b]thiophenyl alanines. Tetrahedron: Asymmetry, 2008, 19, 500-511.	1.8	43
81	Lipase-catalyzed kinetic resolution of racemic 1-heteroarylethanolsâ€”experimental and QM/MM study. Tetrahedron: Asymmetry, 2008, 19, 1844-1852.	1.8	27
82	Bakerâ€™s yeast-mediated synthesis of (R)- and (S)-heteroaryl-ethane-1,2-diols. Tetrahedron: Asymmetry, 2008, 19, 1959-1964.	1.8	14
83	Investigation of the Mechanism of Action of Pyrogallolâ€“Phloroglucinol Transhydroxylase by Using Putative Intermediates. Chemistry - A European Journal, 2007, 13, 2805-2811.	3.3	13
84	The Interaction of Heteroaryl-Acrylates and Alanines with Phenylalanine Ammonia-Lyase from Parsley. Chemistry - A European Journal, 2006, 12, 2739-2744.	3.3	51
85	Inhibition of Histidine Ammonia Lyase by Heteroaryl-alanines and Acrylates. Chemistry and Biodiversity, 2006, 3, 502-508.	2.1	8
86	Chemoenzymatic One-Pot Synthesis of EnantiopureL-Arylalanines from Arylaldehydes. European Journal of Organic Chemistry, 2006, 2006, 1113-1116.	2.4	31
87	NIR surface enhanced Raman spectroscopy and bands assignment by DFT calculations of non-natural Î²-amino acids. Chemical Physics, 2005, 310, 189-199.	1.9	16
88	Biocatalytic enantioselective preparation of phenothiazine-based cyanohydrin acetates: kinetic and dynamic kinetic resolution. Tetrahedron, 2004, 60, 10533-10540.	1.9	38
89	Chemo-enzymatic Preparation of Hydroxymethyl Ketones.. ChemInform, 2003, 34, no.	0.0	0
90	Optically Active 1-(Benzofuran-2-yl)ethanols and Ethane-1,2-diols by Enantiotopic Selective Bioreductions.. ChemInform, 2003, 34, no.	0.0	0

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91	Preparation of Novel Phenylfuran-Based Cyanohydrin Esters: Lipase-Catalyzed Kinetic and Dynamic Resolution.. ChemInform, 2003, 34, no.	0.0	0
92	Candida antarctica lipase A in the dynamic resolution of novel furylbenzotiazol-based cyanohydrin acetates. Tetrahedron: Asymmetry, 2003, 14, 619-627.	1.8	39
93	Optically active 1-(benzofuran-2-yl)ethanols and ethane-1,2-diols by enantiotopic selective bioreductions. Tetrahedron: Asymmetry, 2003, 14, 1495-1501.	1.8	47
94	Preparation of novel phenylfuran-based cyanohydrin esters: lipase-catalysed kinetic and dynamic resolution. Tetrahedron: Asymmetry, 2003, 14, 1895-1904.	1.8	35
95	Kinetic resolution of 1-(benzofuran-2-yl)ethanols by lipase-catalyzed enantiomer selective reactions. Tetrahedron: Asymmetry, 2003, 14, 1943-1949.	1.8	32
96	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, 2003, 107, 1811-1818.	2.5	40
97	BIOORGANIC SYNTHESIS OF SOME (5-BENZOTHIAZOL-2-YL -FURAN-2-YL)- METHANOLS IN CELL CATALYSIS USING SACCHAROMYCES CEREVISIAE. Heterocyclic Communications, 2002, 8, .	1.2	2
98	Bakerâ€™s yeast mediated preparation of (10-alkyl-10H-phenothiazin-3-yl)methanols. Journal of Molecular Catalysis B: Enzymatic, 2002, 17, 241-248.	1.8	17
99	Surface enhanced Raman spectroscopy of 5-(4-fluor-phenyl)-furan-2 carbaldehide adsorbed on silver colloid. Vibrational Spectroscopy, 2002, 29, 251-255.	2.2	22
100	Vibrational spectroscopic investigations of 5-(4-fluor-phenyl)-furan-2 carbaldehyde. Vibrational Spectroscopy, 2002, 29, 235-239.	2.2	9
101	Synthesis of optically active 3-substituted-10-alkyl-10H-phenothiazine-5-oxides by enantioselective biotransformations. Tetrahedron: Asymmetry, 2002, 13, 211-221.	1.8	15
102	Separation of N-alkyl phenothiazine sulfones by HPTLC using an optimum mobile phase. Journal of Pharmaceutical and Biomedical Analysis, 2002, 28, 385-389.	2.8	3
103	Chemo-enzymatic preparation of hydroxymethyl ketones. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 2400-2402.	1.3	10
104	SELECTIVE OXIDATON METHODS FOR PREPARATION OF N-ALKYLPHENOTHIAZINE SULFOXIDES AND SULFONES. Heterocyclic Communications, 2001, 7, .	1.2	11
105	BIOREDUCTION WITH BAKERS' YEAST OF Ï€-DEFICIENT HETEROCYCLIC ALDEHYDES. Heterocyclic Communications, 1999, 5, .	1.2	1
106	ESR study of the dynamics of adsorbed nitroxide radicals on porous surfaces in the dehydration process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 137, 1-6.	4.7	3
107	BAKERS' YEAST-MEDIATED REDUCTIONS OF SOME NITRO-DIBENZOFURANS. Heterocyclic Communications, 1997, 3, .	1.2	1