

# Florin Dan Irimie

## List of Publications by Year in descending order

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76  
papers

1,641  
citations

331670

21  
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330143

37  
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81  
all docs

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docs citations

81  
times ranked

2014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a general approach for tailoring the hydrophobic binding site of phenylalanine ammonia-lyases. <i>Scientific Reports</i> , 2022, 12, .	3.3	5
2	Solvent-Free Biocatalytic Synthesis of 2,5-bis-(Hydroxymethyl)Furan Fatty Acid Diesters from Renewable Resources. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1611-1617.	6.7	15
3	Efficient Biodiesel Production Catalyzed by Nanobioconjugate of Lipase from <i>Pseudomonas fluorescens</i> . <i>Molecules</i> , 2020, 25, 651.	3.8	25
4	Efficient and Stable Magnetic Chitosan-Lipase B from <i>Candida Antarctica</i> Bioconjugates in the Enzymatic Kinetic Resolution of Racemic Heteroarylethanol. <i>Molecules</i> , 2020, 25, 350.	3.8	20
5	Mapping the Hydrophobic Substrate Binding Site of Phenylalanine Ammonia-Lyase from <i>Petroselinum crispum</i> . <i>ACS Catalysis</i> , 2019, 9, 8825-8834.	11.2	28
6	Modern diversification of the amino acid repertoire driven by oxygen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 41-46.	7.1	67
7	Tailored Mutants of Phenylalanine Ammonia-lyase from <i>Petroselinum crispum</i> for the Synthesis of Bulky <i>l</i> - and <i>d</i> -Arylalanines. <i>ChemCatChem</i> , 2018, 10, 2627-2633.	3.7	18
8	Biodiesel, a Green Fuel Obtained Through Enzymatic Catalysis. , 2018, , 191-234.		1
9	Eco-Friendly Enzymatic Production of 2,5-Bis(hydroxymethyl)furan Fatty Acid Diesters, Potential Biodiesel Additives. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11353-11359.	6.7	33
10	Click reaction-aided enzymatic kinetic resolution of secondary alcohols. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 790-798.	3.7	4
11	Expanding the substrate scope of phenylalanine ammonia-lyase from <i>Petroselinum crispum</i> towards styrylalanines. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 3717-3727.	2.8	28
12	Tailored sol-gel immobilized lipase prepares for the enzymatic kinetic resolution of heteroaromatic alcohols in batch and continuous flow systems. <i>RSC Advances</i> , 2017, 7, 52977-52987.	3.6	5
13	Rapid Determination of Trace Elements in Macedonian Grape Brandies for Their Characterization and Safety Evaluation. <i>Food Analytical Methods</i> , 2017, 10, 459-468.	2.6	11
14	Aminated Single-walled Carbon Nanotubes as Carrier for Covalent Immobilization of Phenylalanine Ammonia-lyase. <i>Periodica Polytechnica: Chemical Engineering</i> , 2017, 61, 59.	1.1	13
15	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. <i>Molecules</i> , 2016, 21, 25.	3.8	2
16	Influence of the aromatic moiety in $\hat{1}$ - and $\hat{2}$ -arylalanines on their biotransformation with phenylalanine 2,3-aminomutase from <i>Pantoea agglomerans</i> . <i>RSC Advances</i> , 2016, 6, 56412-56420.	3.6	6
17	Nanobioconjugates of <i>Candida antarctica</i> lipase B and single-walled carbon nanotubes in biodiesel production. <i>Bioresource Technology</i> , 2016, 200, 853-860.	9.6	59
18	Heterocycles 38. Biocatalytic Synthesis of New Heterocyclic Mannich Bases and Derivatives. <i>Molecules</i> , 2015, 20, 12300-12313.	3.8	8

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19	Immobilization of Phenylalanine Ammonia-Lyase on Single-Walled Carbon Nanotubes for Stereoselective Biotransformations in Batch and Continuous-Flow Modes. <i>ChemCatChem</i> , 2015, 7, 1122-1128.	3.7	43
20	Synthesis of enantiopure l-(5-phenylfuran-2-yl)alanines by a sequential multienzyme process. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 1095-1101.	1.8	5
21	Composite Aromatic Boxes for Enzymatic Transformations of Quaternary Ammonium Substrates. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13471-13476.	13.8	20
22	New chemo-enzymatic approaches for the synthesis of (R)- and (S)-bufuralol. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 1316-1322.	1.8	11
23	<i>Candida antarctica</i> lipases acting as versatile catalysts for the synthesis of enantiopure (R)- and (S)-1-(2-phenylthiazol-4-yl)ethanamines. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 107, 114-119.	1.8	6
24	Lipase-catalyzed asymmetric acylation in the chemoenzymatic synthesis of furan-based alcohols. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 142-150.	1.8	15
25	The Interaction of Nitrophenylalanines with Wild Type and Mutant 4-Methylideneimidazole-5-one-less Phenylalanine Ammonia Lyase. <i>ChemCatChem</i> , 2013, 5, 779-783.	3.7	2
26	Heterocycles 32. Efficient kinetic resolution of 1-(2-arylthiazol-4-yl)ethanols and their acetates using lipase B from <i>Candida antarctica</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 94, 88-94.	1.8	9
27	pH-Profiling of thermoactive lipases and esterases: Caveats and further notes. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 571-575.	1.5	12
28	Molecular cloning and characterization of a thermostable esterase/lipase produced by a novel <i>Anoxybacillus flavithermus</i> strain. <i>Journal of General and Applied Microbiology</i> , 2013, 59, 119-134.	0.7	14
29	Preparation of Unnatural Amino Acids with Ammonia-Lyases and 2,3-Aminomutases. <i>Methods in Molecular Biology</i> , 2012, 794, 3-19.	0.9	26
30	Chemoenzymatic Preparation of 1-Heteroarylethanamines of Low Solubility. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 3288-3294.	2.4	18
31	Early transcriptional pattern of angiogenesis induced by EGCG treatment in cervical tumour cells. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 520-530.	3.6	41
32	Biodiesel production using enzymatic transesterification – Current state and perspectives. <i>Renewable Energy</i> , 2012, 39, 10-16.	8.9	358
33	Sequential enzymatic procedure for the preparation of enantiomerically pure 2-heteroaryl-2-hydroxyacetic acids. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 181-187.	1.8	5
34	Chemoenzymatic synthesis of highly enantiomerically enriched secondary alcohols with a thiazolic core. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 474-481.	1.8	9
35	Immobilization to improve the properties of <i>Pseudomonas fluorescens</i> lipase for the kinetic resolution of 3-aryl-3-hydroxy esters. <i>Process Biochemistry</i> , 2012, 47, 119-126.	3.7	22
36	A yellow-laccase with blue-spectroscopic features, from <i>Sclerotinia sclerotiorum</i> . <i>Process Biochemistry</i> , 2012, 47, 968-975.	3.7	43

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37	RECOMBINANT <i>Anoxybacillus flavithermus</i> T1 ESTERASE/LIPASE: OPTIMIZATION OF EXPRESSION AND RECOVERY. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 1915-1922.	0.6	0
38	Lipase mediated sequential resolution of aromatic 1 <sup>o</sup> -hydroxy esters using fatty acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 1672-1679.	1.8	16
39	Chemoenzymatic One-Pot Synthesis of both (R)- and (S)-1,2-ethanediols. <i>ChemCatChem</i> , 2011, 3, 343-346.	3.7	6
40	Lipases A and B from <i>Candida antarctica</i> in the enantioselective acylation of ethyl 3-heteroaryl-3-hydroxypropanoates: aspects on the preparation and enantiopreference. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 315-322.	1.8	29
41	Sequential use of regio- and stereoselective lipases for the efficient kinetic resolution of racemic 1-(5-phenylfuran-2-yl)ethane-1,2-diols. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 675-683.	1.8	7
42	Lipase-catalyzed kinetic resolutions of racemic 1-(10-ethyl-10H-phenothiazin-1,2, and 4-yl)ethanols and their acetates. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 916-923.	1.8	15
43	Lipase-Catalyzed Synthesis of Both Enantiomers of 3-Chloro-1-arylpropan-1-ols. <i>Synthesis</i> , 2011, 2011, 2921-2928.	2.3	1
44	Lipase-catalyzed kinetic resolution of racemic 1-(10-alkyl-10H-phenothiazin-3-yl)ethanols and their butanoates. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 1993-1998.	1.8	17
45	Synthesis of enantiomerically enriched (R)- and (S)-benzofuranyl- and benzo[b]thiophenyl-1,2-ethanediols via enantiopure cyanohydrins as intermediates. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 443-450.	1.8	10
46	Substituent effects on the stereochemical outcome of the baker's yeast-mediated biotransformation of 1 <sup>o</sup> -hydroxy- and 1 <sup>o</sup> -acetoxymethyl-5-phenylfuran-2-yl-ethanones. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 356-364.	1.8	12
47	Enzyme-catalyzed synthesis of (R)- and (S)-3-hydroxy-3-(10-alkyl-10H-phenothiazin-3-yl)propanoic acids. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 365-373.	1.8	17
48	CaL-B a highly selective biocatalyst for the kinetic resolution of furylbenzthiazole-2-yl-ethanols and acetates. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 1999-2004.	1.8	15
49	2-Amino-3-(5-phenylfuran-2-yl)propionic Acids and 5-Phenylfuran-2-ylacrylic Acids are Novel Substrates of Phenylalanine Ammonia-Lyase. <i>Heterocycles</i> , 2010, 82, 1217.	0.7	13
50	Enzyme-catalyzed synthesis of (R)- and (S)-3-heteroaryl-3-hydroxy-propanoic acids and their derivatives. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 489-496.	1.8	17
51	Chemoenzymatic synthesis of (R)- and (S)-1-heteroarylethanols. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2068-2071.	1.8	16
52	Chemoenzymatic preparation of enantiopure l-benzofuranyl- and l-benzo[b]thiophenyl alanines. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 500-511.	1.8	43
53	Lipase-catalyzed kinetic resolution of racemic 1-heteroarylethanols—experimental and QM/MM study. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1844-1852.	1.8	27
54	Baker's yeast-mediated synthesis of (R)- and (S)-heteroaryl-ethane-1,2-diols. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1959-1964.	1.8	14

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55	Experimental and quantum chemical study on the vibrational spectroscopy of N-methylphenothiazines: Part 1. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 63, 349-360.	3.9	1
56	Role of chemical structure in molecular recognition by transferrin. <i>Journal of Molecular Recognition</i> , 2006, 19, 270-274.	2.1	7
57	NIR surface enhanced Raman spectroscopy and bands assignment by DFT calculations of non-natural $\beta$ -amino acids. <i>Chemical Physics</i> , 2005, 310, 189-199.	1.9	16
58	Biocatalytic enantioselective preparation of phenothiazine-based cyanohydrin acetates: kinetic and dynamic kinetic resolution. <i>Tetrahedron</i> , 2004, 60, 10533-10540.	1.9	38
59	Chemo-enzymatic Preparation of Hydroxymethyl Ketones.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
60	Optically Active 1-(Benzofuran-2-yl)ethanols and Ethane-1,2-diols by Enantiotopic Selective Bioreductions.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
61	Preparation of Novel Phenylfuran-Based Cyanohydrin Esters: Lipase-Catalyzed Kinetic and Dynamic Resolution.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
62	<i>Candida antarctica</i> lipase A in the dynamic resolution of novel furylbenzotiazol-based cyanohydrin acetates. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 619-627.	1.8	39
63	Optically active 1-(benzofuran-2-yl)ethanols and ethane-1,2-diols by enantiotopic selective bioreductions. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 1495-1501.	1.8	47
64	Preparation of novel phenylfuran-based cyanohydrin esters: lipase-catalysed kinetic and dynamic resolution. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 1895-1904.	1.8	35
65	Kinetic resolution of 1-(benzofuran-2-yl)ethanols by lipase-catalyzed enantiomer selective reactions. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 1943-1949.	1.8	32
66	Raman, Infrared, and Surface-Enhanced Raman Spectroscopy in Combination with ab Initio and Density Functional Theory Calculations on 10-Isopropyl-10H-phenothiazine-5-oxide. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1811-1818.	2.5	40
67	BIOORGANIC SYNTHESIS OF SOME (5-BENZOTHAZOL-2-YL -FURAN-2-YL)- METHANOLS IN CELL CATALYSIS USING SACCHAROMYCES CEREVISIAE. <i>Heterocyclic Communications</i> , 2002, 8, .	1.2	2
68	Baker's yeast mediated preparation of (10-alkyl-10H-phenothiazin-3-yl)methanols. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 17, 241-248.	1.8	17
69	Surface enhanced Raman spectroscopy of 5-(4-fluor-phenyl)-furan-2 carbaldehyde adsorbed on silver colloid. <i>Vibrational Spectroscopy</i> , 2002, 29, 251-255.	2.2	22
70	Vibrational spectroscopic investigations of 5-(4-fluor-phenyl)-furan-2 carbaldehyde. <i>Vibrational Spectroscopy</i> , 2002, 29, 235-239.	2.2	9
71	Synthesis of optically active 3-substituted-10-alkyl-10H-phenothiazine-5-oxides by enantioselective biotransformations. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 211-221.	1.8	15
72	Separation of N-alkyl phenothiazine sulfones by HPTLC using an optimum mobile phase. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2002, 28, 385-389.	2.8	3

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73	Chemo-enzymatic preparation of hydroxymethyl ketones. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 2400-2402.	1.3	10
74	SELECTIVE OXIDATION METHODS FOR PREPARATION OF N-ALKYLPHENOTHIAZINE SULFOXIDES AND SULFONES. Heterocyclic Communications, 2001, 7, .	1.2	11
75	BAKERS' YEAST-MEDIATED REDUCTIONS OF SOME NITRO-DIBENZOFURANS. Heterocyclic Communications, 1997, 3, .	1.2	1
76	Prediction of the lipophilicity of some plant growth-stimulating amido esters of ethanolamine using reversed-phase thin-layer chromatography. Journal of Chromatography A, 1994, 675, 282-285.	3.7	13