

# Francisca Rebolledo

## List of Publications by Year in descending order

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73  
papers

2,150  
citations

159358

30  
h-index

264894

42  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic aminolysis and transamidation reactions. <i>Tetrahedron</i> , 1991, 47, 9207-9214.	1.0	85
2	CAL-B-catalyzed resolution of some pharmacologically interesting $\hat{1}^2$ -substituted isopropylamines. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 1315-1320.	1.8	73
3	Regioselective enzymatic acylation of complex natural products: expanding molecular diversity. <i>Chemical Society Reviews</i> , 2011, 40, 5321.	18.7	69
4	Optically Active Hexaazamacrocycles: Protonation Behavior and Chiral-Anion Recognition. <i>Helvetica Chimica Acta</i> , 2001, 84, 280-295.	1.0	67
5	<i>Candida antarctica</i> lipase catalyzed resolution of ethyl ( $\hat{A}\pm$ )-3-aminobutyrate. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 37-40.	1.8	63
6	Optically active (S)-ketone- and (R)-aldehyde-cyanohydrins via an (R)-oxynitrifase-catalysed transcyanation. Chemoenzymatic syntheses of 2-cyanotetrahydrofuran and 2-cyanotetrahydropyran. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 989-990.	2.0	61
7	Enantioselective acylation of amino alcohols by porcine pancreatic lipase. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 957.	2.0	56
8	Optically Active Dioxatetraazamacrocycles: Chemoenzymatic Syntheses and Applications in Chiral Anion Recognition. <i>Chemistry - A European Journal</i> , 2000, 6, 3331-3338.	1.7	56
9	<i>Candida antarctica</i> B lipase catalysed resolution of ( $\hat{A}\pm$ )-1-(heteroaryl)ethylamines. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 2675-2677.	1.8	55
10	Enantioselective Enzymatic Aminolysis and Ammonolysis of Dimethyl 3-Hydroxyglutarate. Synthesis of (R)-4-Amino-3-hydroxybutanoic Acid. <i>Journal of Organic Chemistry</i> , 1996, 61, 6024-6027.	1.7	53
11	Lipase-catalyzed synthesis of optically active amides in organic media. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 1105-1112.	1.8	50
12	Chemoenzymatic aminolysis and ammonolysis of $\hat{1}^2$ -ketoesters. <i>Tetrahedron Letters</i> , 1993, 34, 6141-6142.	0.7	48
13	Lipase-catalyzed aminolysis and ammonolysis of $\hat{1}^2$ -ketoesters. Synthesis of optically active $\hat{1}^2$ -ketoamides.. <i>Tetrahedron</i> , 1994, 50, 6935-6940.	1.0	48
14	Enantioselective bioreduction of $\hat{1}^2$ -keto sulfones with the fungus <i>Curvularia lunata</i> . <i>Tetrahedron: Asymmetry</i> , 2001, 12, 513-515.	1.8	48
15	Practical enzymatic route to optically active 3-hydroxyamides. Synthesis of 1,3-aminoalcohols. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 2199-2210.	1.8	47
16	<i>Candida antarctica</i> Lipase-Catalyzed Doubly Enantioselective Aminolysis Reactions. Chemoenzymatic Synthesis of 3-Hydroxypyrrolidines and 4-(Silyloxy)-2-oxopyrrolidines with Two Stereogenic Centers. <i>Journal of Organic Chemistry</i> , 1999, 64, 1464-1470.	1.7	45
17	Chemoenzymatic synthesis of azacycloalkan-3-ols. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 3449-3455.	1.8	44
18	trans-Cyclopentane-1,2-diamine: the second youth of the forgotten diamine. <i>Chemical Society Reviews</i> , 2009, 38, 1916.	18.7	44

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19	Selective ammonolysis and aminolysis of dimethyl succinate. Synthesis of optically active N-alkylsuccinimides. <i>Tetrahedron</i> , 1995, 51, 1495-1502.	1.0	43
20	Kinetic resolution of (R)-trans- and (S)-cis-2-phenylcyclopentanamine by CALB-catalyzed aminolysis of esters: the key role of the leaving group. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 481-488.	1.8	43
21	A simple procedure for the preparation of chiral amides. <i>Tetrahedron Letters</i> , 1988, 29, 6973-6974.	0.7	42
22	Hybrid Organo- and Biocatalytic Process for the Asymmetric Transformation of Alcohols into Amines in Aqueous Medium. <i>ACS Catalysis</i> , 2017, 7, 4768-4774.	5.5	42
23	Enzymatic ammonolysis of ethyl (R)-4-chloro-3-hydroxybutanoate. Chemoenzymatic syntheses of both enantiomers of pyrrolidin-3-ol and 5-(chloromethyl)-1,3-oxazolidin-2-one. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 721-726.	1.8	38
24	Chemoenzymatic Preparation of Optically Active trans-Cyclohexane-1,2-diamine Derivatives: An Efficient Synthesis of the Analgesic U-(R)-50,488. <i>Chemistry - A European Journal</i> , 2004, 10, 5788-5794.	1.7	38
25	Cycloalkane-1,2-diamine derivatives as chiral solvating agents. Study of the structural variables controlling the NMR enantiodiscrimination of chiral carboxylic acids. <i>Tetrahedron</i> , 2008, 64, 7709-7717.	1.0	38
26	Sequential biocatalytic resolution of (R)-trans-cyclohexane-1,2-diamine. Chemoenzymatic synthesis of an optically active polyamine. <i>Chemical Communications</i> , 1996, , 2471-2472.	2.2	37
27	Lipase-catalysed enantioselective acylation of N-protected or unprotected 2-aminoalkan-1-ols. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1992, , 2885-2889.	0.9	35
28	Straightforward preparation of biologically active 1-aryl- and 1-heteroarylpropan-2-amines in enantioenriched form. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2274.	1.5	33
29	Enzymatic synthesis of amides with two chiral centres. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 1386.	2.0	32
30	Strengthening the Combination between Enzymes and Metals in Aqueous Medium: Concurrent Ruthenium-Catalyzed Nitrile Hydration and Asymmetric Ketone Bioreduction. <i>ChemCatChem</i> , 2018, 10, 4676-4682.	1.8	31
31	Synthesis of Hydrazides Through an Enzymatic Hydrazinolysis Reaction. <i>Synthesis</i> , 1991, 1991, 350-352.	1.2	30
32	A Straightforward Deracemization of <i>sec</i> -Alcohols Combining Organocatalytic Oxidation and Biocatalytic Reduction. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3031-3035.	1.2	30
33	Enzymatic synthesis of propargylamides. <i>Tetrahedron Letters</i> , 1989, 30, 5345-5346.	0.7	29
34	Enantioselective reduction of $\beta$ -keto amides by the fungus <i>Mortierella isabellina</i> . <i>Tetrahedron: Asymmetry</i> , 1997, 8, 3035-3038.	1.8	29
35	Chemoenzymatic syntheses of two optically active hexa-azamacrocycles. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 367-374.	1.8	29
36	Biotransformations of benzoylacetonitrile with the fungus <i>Curvularia lunata</i> : highly diastereo- and enantioselective synthesis of $\beta$ -alkyl $\beta$ -hydroxy nitriles and $\beta$ -amino alcohols. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 307-309.	1.3	28

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37	A Biocatalytic Approach to Synthesizing Optically Active Orthogonally Protected trans-Cyclopentane-1,2-Diamine Derivatives. <i>Journal of Organic Chemistry</i> , 2007, 72, 1309-1314.	1.7	26
38	Enzymatic one-pot resolution of two nucleophiles: alcohol and amine. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 1459-1463.	1.8	25
39	New pincer-like receptor derived from trans-cyclopentane-1,2-diamine as a chiral shift reagent for carboxylic acids. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 1981-1985.	1.8	23
40	An enzymatic method for the preparation of chiral diamides. <i>Tetrahedron: Asymmetry</i> , 1990, 1, 277-278.	1.8	22
41	Enzymatic aminolysis of non-activated diesters with diamines. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 829.	0.9	22
42	Bioreduction of 2-oxocyclopentanecarboxamides: syntheses of optically active 2-aminomethyl- and 2-aminocyclopentanols. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 473-486.	1.8	22
43	Chemoenzymatic preparation of optically active $\hat{1}^2$ -amino-cyclohexanols and their application in the enantioselective addition of diethylzinc to benzaldehyde. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 1335-1341.	1.8	21
44	Study of the enantioselectivity of the CAL-B-catalysed transesterification of $\hat{1}^{\pm}$ -substituted $\hat{1}^{\pm}$ -propylmethanols and $\hat{1}^{\pm}$ -substituted benzyl alcohols. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 3047-3052.	1.8	19
45	Enzymatic synthesis of 3-hydroxybutyramides and their conversion to optically active 1,3-aminoalcohols. <i>Tetrahedron: Asymmetry</i> , 1992, 3, 1519-1522.	1.8	18
46	Enantioselective acylation of rac-2-phenylcycloalkanamines catalyzed by lipases. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 3070-3076.	1.8	18
47	Kinetic Resolution of 1-Biaryl- and 1-(Pyridylphenyl)alkan-1-ols Catalysed by the Lipase B from <i>Candida antarctica</i> . <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 695-702.	2.1	18
48	Enzymatic Dynamic Kinetic Resolution of ( $\hat{A}^{\pm}$ )-cis-N-(Alkoxy carbonyl)cyclopentane-1,2-diamines based on Spontaneous Racemization. <i>Organic Letters</i> , 2010, 12, 3602-3605.	2.4	18
49	Developing a Biocascade Process: Concurrent Ketone Reduction-Nitrile Hydrolysis of 2-Oxocycloalkanecarbonitriles. <i>Organic Letters</i> , 2016, 18, 3366-3369.	2.4	18
50	Kinetic Resolution of ( $\hat{A}^{\pm}$ )-1-Phenylbutan-1-ol by Means of CALB-Catalyzed Aminolyses: A Study on the Role of the Amine in the Alcohol Resolution. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 646-654.	2.1	17
51	Chemoenzymatic syntheses of novel ligands derived from trans-cyclohexane-1,2-diamine: application in the enantioselective addition of diethylzinc to aromatic aldehydes. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 449-454.	1.8	17
52	Optically active tetraazamacrocycles analogous to cyclam. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 2515-2522.	1.8	16
53	Redesigning the mechanism of the lipase-catalysed aminolysis of esters. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1264-1274.	1.8	16
54	An improved chemoenzymatic synthesis of both enantiomers of trans-cyclopentane-1,2-diamine. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 751-755.	1.8	16

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55	Chemoenzymatic approach to optically active 1,4-dihydropyridine derivatives. <i>Tetrahedron</i> , 2015, 71, 3976-3984.	1.0	16
56	Enzymatic Selective Transformations of Diethyl Fumarate. <i>Tetrahedron</i> , 1995, 51, 7715-7720.	1.0	15
57	Chemoenzymatic synthesis of optically active phenolic 3,4-dihydropyridin-2-ones: a way to access enantioenriched 1,4-dihydropyridine and benzodiazepine derivatives. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5171-5181.	1.5	14
58	Biotransformation of cycloalkanediones by microorganisms; Stereoselective reduction of (i <sup>1</sup> / <sub>2</sub> )-camphorquinone. <i>Biotechnology Letters</i> , 1991, 13, 245-248.	1.1	12
59	Chemoenzymatic preparation of optically active 4-aryl-5-carboxy-6-methyl-3,4-dihydro-2(1H)-pyridone derivatives. <i>Tetrahedron</i> , 2014, 70, 4675-4684.	1.0	11
60	Enzymatic hydrolysis of 2,2,2-trifluoroethyl $\alpha$ -chloro- $\beta$ -phenylacetate in organic media. <i>Biotechnology Letters</i> , 1991, 13, 867-870.	1.1	9
61	An efficient chemoenzymatic method to prepare optically active primary-tertiary trans-cycloalkane-1,2-diamines. <i>Tetrahedron</i> , 2009, 65, 8028-8034.	1.0	9
62	Chemoenzymatic synthesis of orthogonally protected (3R,4R)- and (3S,4S)-trans-3-amino-4-hydroxypyrrolidines. <i>Tetrahedron</i> , 2013, 69, 5407-5412.	1.0	9
63	Enzymatic resolution of (R,S)-1-ferrocenylethylamine. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 1047-1050.	1.8	8
64	Multi-Choice Enzymatic Resolutions of Racemic Secondary Alcohols Using <i>Candida antarctica</i> Lipase B. A Collaborative Experiment for Advanced Undergraduates. <i>Journal of Chemical Education</i> , 2005, 82, 930.	1.1	7
65	Chemoenzymatic preparation of optically active anthracene derivatives. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2589-2593.	1.8	7
66	Highly efficient chemoenzymatic syntheses of trans-2-aminocyclopentanol derivatives. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 59, 111-115.	1.8	7
67	Enantioselective bacterial hydrolysis of amido esters and diamides derived from (R,S)-trans-cyclopropane-1,2-dicarboxylic acid. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 615-623.	1.5	7
68	Amine Transaminase Mediated Synthesis of Optically Pure Piperazinones and 1,4-Diazepanones. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 1326-1336.	2.1	7
69	CHEMOENZYMATIC SYNTHESSES OF POLYAMINES AND TETRAAZAMACROCYCLES. <i>Synthetic Communications</i> , 2002, 32, 2441-2452.	1.1	6
70	Optically active trans-2-aminocyclopentanols: Chemoenzymatic preparation and application as chiral ligands. <i>Biotechnology Journal</i> , 2006, 1, 835-841.	1.8	6
71	Chemoenzymatic preparation of optically active trans- and cis-cyclohex-4-ene-1,2-diamine and trans-6-aminocyclohex-3-enol derivatives. <i>Tetrahedron</i> , 2012, 68, 7670-7674.	1.0	5
72	Highly efficient asymmetric bioreduction of 1-aryl-2-(azaaryl)ethanones. Chemoenzymatic synthesis of lanicemine. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8214-8220.	1.5	4

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73	Chemoenzymatic Preparation of Optically Active $\beta$ -Aminocyclohexanols and Their Application in the Enantioselective Addition of Diethylzinc to Benzaldehyde.. ChemInform, 2004, 35, no.	0.1	0