Javier GonzÃ¡lez-SabÃ-n

List of Publications by Year
in descending order

66 papers	1,862 citations	172386 29 h-index	289141 40 g-index
75 all docs	75 docs citations	75 times ranked	1801 citing authors

#	Article	IF	Citations
1	Construction of chemoenzymatic cascade reactions for bridging chemocatalysis and Biocatalysis: Principles, strategies and prospective. Chemical Engineering Journal, 2021, 420, 127659.	6.6	61
2	Expanding the Toolbox of R â€Selective Amine Transaminases by Identification and Characterization of New Members. ChemBioChem, 2021, 22, 1232-1242.	1.3	14
3	Enzymatic Cascade Reactions in Non-Conventional Media. , 2021, , 165-178.		0
4	Novel chiral naphthalimide-cycloalkanediamine conjugates: Design, synthesis and antitumor activity. Bioorganic Chemistry, 2021, 112, 104859.	2.0	5
5	Chemoenzymatic Oxosulfonylationâ€Bioreduction Sequence for the Stereoselective Synthesis of Î²â€Hydroxy Sulfones. ChemSusChem, 2021, , .	3.6	7
6	Copper-catalyzed Goldberg-type Câ€“N coupling in deep eutectic solvents (DESs) and water under aerobic conditions. Organic and Biomolecular Chemistry, 2021, 19, 1773-1779.	1.5	30
7	A one-pot two-step synthesis of tertiary alcohols combining the biocatalytic laccase/TEMPO oxidation system with organolithium reagents in aerobic aqueous media at room temperature. Chemical Communications, 2021, 57, 13534-13537.	2.2	9
8	Nonâ€Conventional Media as Strategy to Overcome the Solvent Dilemma in Chemoenzymatic Tandem Catalysis. ChemCatChem, 2020, 12, 1903-1912.	1.8	47
9	Chemoenzymatic Synthesis of Sertraline. European Journal of Organic Chemistry, 2020, 2020, 510-513.	1.2	11
10	Deep eutectic solvent-catalyzed Meyerâ€“Schuster rearrangement of propargylic alcohols under mild and bench reaction conditions. Chemical Communications, 2020, 56, 15165-15168.	2.2	14
11	DESign of Sustainable One-Pot Chemoenzymatic Organic Transformations in Deep Eutectic Solvents for the Synthesis of 1,2-Disubstituted Aromatic Olefins. Frontiers in Chemistry, 2020, 8, 139.	1.8	23
12	Combination of organocatalytic oxidation of alcohols and organolithium chemistry (RLi) in aqueous media, at room temperature and under aerobic conditions. Chemical Communications, 2020, 56, 8932-8935.	2.2	17
13	Addition of Highly Polarized Organometallic Compounds to Nâ€tertâ€Butanesulfinyl Imines in Deep Eutectic Solvents under Air: Preparation of Chiral Amines of Pharmaceutical Interest. ChemSusChem, 2020, 13, 3583-3588.	3.6	35
14	Using Deep Eutectic Solvents to Overcome Limited Substrate Solubility in the Enzymatic Decarboxylation of Bio-Based Phenolic Acids. ACS Sustainable Chemistry and Engineering, 2019, 7, 16364-16370.	3.2	44
15	Oneâ€pot Synthesis of 4â€Aminocyclohexanol Isomers by Combining a Keto Reductase and an Amine Transaminase. ChemCatChem, 2019, 11, 5794-5799.	1.8	7
16	Enantioselective One-Pot Synthesis of Biaryl-Substituted Amines by Combining Palladium and Enzyme Catalysis in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2019, 7, 5486-5493.	3.2	51
17	Amine Transaminase fromExophiala Xenobioticaâ€”Crystal Structure and Engineering of a Fold IV Transaminase that Naturally Converts Biaryl Ketones. ACS Catalysis, 2019, 9, 1140-1148.	5.5	34
18	Oneâ€Pot Transformation of Ketoximes into Optically Active Alcohols and Amines by Sequential Action of Laccases and Ketoreductases or Ï‰â€Transaminases. ChemCatChem, 2019, 11, 1272-1277.	1.8	20

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19	A Straightforward Deracemization of secâ€Alcohols Combining Organocatalytic Oxidation and Biocatalytic Reduction. European Journal of Organic Chemistry, 2018, 2018, 3031-3035.	1.2	30
20	Chemoenzymatic Approaches to the Synthesis of the Calcimimetic Agent Cinacalcet Employing Transaminases and Ketoreductases. Advanced Synthesis and Catalysis, 2018, 360, 2157-2165.	2.1	23
21	Strengthening the Combination between Enzymes and Metals in Aqueous Medium: Concurrent Rutheniumâ€Catalyzed Nitrile Hydration â€• Asymmetric Ketone Bioreduction. ChemCatChem, 2018, 10, 4676-4682.	1.8	31
22	Front Cover Picture: Chemoenzymatic Approaches to the Synthesis of the Calcimimetic Agent Cinacalcet Employing Transaminases and Ketoreductases (Adv. Synth. Catal. 11/2018). Advanced Synthesis and Catalysis, 2018, 360, 2061-2061.	2.1	0
23	New Insights into the Biosynthesis Pathway of Polyketide Alkaloid Argimycins P in Streptomyces argillaceus. Frontiers in Microbiology, 2018, 9, 252.	1.5	23
24	One-Pot Combination of Metal- and Bio-Catalysis in Water for the Synthesis of Chiral Molecules. Catalysts, 2018, 8, 75.	1.6	49
25	Novel Insights into the Combination of Metalâ€•and Biocatalysis: Cascade Oneâ€Pot Synthesis of Enantiomerically Pure Biaryl Alcohols in Deep Eutectic Solvents. ChemCatChem, 2018, 10, 4417-4423.	1.8	44
26	Programming cascade reactions interfacing biocatalysis with transition-metal catalysis in Deep Eutectic Solvents as biorenewable reaction media. Green Chemistry, 2018, 20, 3468-3475.	4.6	96
27	Exploiting the Biocatalytic Toolbox for the Asymmetric Synthesis of the Heartâ€Rate Reducing Agent Ivabradine. Advanced Synthesis and Catalysis, 2017, 359, 485-493.	2.1	30
28	Hybrid Organo- and Biocatalytic Process for the Asymmetric Transformation of Alcohols into Amines in Aqueous Medium. ACS Catalysis, 2017, 7, 4768-4774.	5.5	42
29	Combination of Metal-Catalyzed Cycloisomerizations and Biocatalysis in Aqueous Media: Asymmetric Construction of Chiral Alcohols, Lactones, and Î³-Hydroxy-Carbonyl Compounds. ACS Catalysis, 2017, 7, 7753-7759.	5.5	41
30	Asymmetric Reduction of Prochiral Ketones by Using Selfâ€Sufficient Heterogeneous Biocatalysts Based on NADPHâ€Dependent Ketoreductases. Chemistry - A European Journal, 2017, 23, 16843-16852.	1.7	61
31	Editorial: Applied Microbiology for Chemical Syntheses. Frontiers in Microbiology, 2017, 8, 1931.	1.5	1
32	From a Sequential to a Concurrent Reaction in Aqueous Medium: Rutheniumâ€Catalyzed Allylic Alcohol Isomerization and Asymmetric Bioreduction. Angewandte Chemie, 2016, 128, 8833-8837.	1.6	13
33	From a Sequential to a Concurrent Reaction in Aqueous Medium: Rutheniumâ€Catalyzed Allylic Alcohol Isomerization and Asymmetric Bioreduction. Angewandte Chemie - International Edition, 2016, 55, 8691-8695.	7.2	54
34	Identification of Mithramycin Analogues with Improved Targeting of the EWS-FLI1 Transcription Factor. Clinical Cancer Research, 2016, 22, 4105-4118.	3.2	56
35	Developing a Biocascade Process: Concurrent Ketone Reduction-Nitrile Hydrolysis of 2-Oxocycloalkanecarbonitriles. Organic Letters, 2016, 18, 3366-3369.	2.4	18
36	Laccase-catalysed biotransformation of collismycin derivatives. A novel enzymatic approach for the cleavage of oximes. Green Chemistry, 2016, 18, 989-994.	4.6	16

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37	Expanding the Chemical Diversity of the Antitumoral Compound Mithramycin by Combinatorial Biosynthesis and Biocatalysis: The Quest for Mithralogs with Improved Therapeutic Window. Planta Medica, 2015, 81, 1326-1338.	0.7	30
38	Chemoenzymatic one-pot synthesis in an aqueous medium: combination of metal-catalysed allylic alcohol isomerisationâ€“asymmetric bioamination. Chemical Communications, 2015, 51, 10937-10940.	2.2	46
39	Abstract 1612: Identification of mithramycin analogs with improved targeting of the EWS/FLI1 transcription factor. , 2015, , .		1
40	Generation by mutasynthesis of potential neuroprotectant derivatives of the bipyridyl collismycin A. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5707-5709.	1.0	8
41	Enzymatic transesterification of pharmacologically interesting Î²-aminocycloalkanol precursors. Tetrahedron: Asymmetry, 2013, 24, 1421-1425.	1.8	9
42	Engineering the Biosynthesis of the Polyketide-Nonribosomal Peptide Collismycin A for Generation of Analogs with Neuroprotective Activity. Chemistry and Biology, 2013, 20, 1022-1032.	6.2	35
43	Lipase-catalyzed preparation of chromomycin A3 analogues and biological evaluation for anticancer activity. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4310-4313.	1.0	1
44	A Novel Mithramycin Analogue with High Antitumor Activity and Less Toxicity Generated by Combinatorial Biosynthesis. Journal of Medicinal Chemistry, 2012, 55, 5813-5825.	2.9	71
45	Regioselective Enzymatic Acylation of Aureolic Acids to Obtain Novel Analogues with Improved Antitumor Activity. Advanced Synthesis and Catalysis, 2012, 354, 1500-1508.	2.1	6
46	Elucidating the Biosynthetic Pathway for the Polyketide-Nonribosomal Peptide Collismycin A: Mechanism for Formation of the 2,2â€²-bipyridyl Ring. Chemistry and Biology, 2012, 19, 399-413.	6.2	46
47	Straightforward preparation of biologically active 1-aryl- and 1-heteroarylpropan-2-amines in enantioenriched form. Organic and Biomolecular Chemistry, 2011, 9, 2274.	1.5	33
48	Regioselective enzymatic acylation of complex natural products: expanding molecular diversity. Chemical Society Reviews, 2011, 40, 5321.	18.7	69
49	The chromomycin CmmA acetyltransferase: a membraneâ€bound enzyme as a tool for increasing structural diversity of the antitumour mithramycin. Microbial Biotechnology, 2011, 4, 226-238.	2.0	27
50	Highly efficient chemoenzymatic syntheses of trans-2-aminocyclopentanol derivatives. Journal of Molecular Catalysis B: Enzymatic, 2009, 59, 111-115.	1.8	7
51	An efficient chemoenzymatic method to prepare optically active primaryâ€“tertiary trans-cycloalkane-1,2-diamines. Tetrahedron, 2009, 65, 8028-8034.	1.0	9
52	trans-Cyclopentane-1,2-diamine: the second youth of the forgotten diamine. Chemical Society Reviews, 2009, 38, 1916.	18.7	44
53	Chemoenzymatic preparation of optically active anthracene derivatives. Tetrahedron: Asymmetry, 2008, 19, 2589-2593.	1.8	7
54	Cycloalkane-1,2-diamine derivatives as chiral solvating agents. Study of the structural variables controlling the NMR enantiodiscrimination of chiral carboxylic acids. Tetrahedron, 2008, 64, 7709-7717.	1.0	38

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55	An improved chemoenzymatic synthesis of both enantiomers of trans-cyclopentane-1,2-diamine. Tetrahedron: Asymmetry, 2008, 19, 751-755.	1.8	16
56	A Biocatalytic Approach to Synthesizing Optically Active Orthogonally Protectedtrans-Cyclopentane-1,2-Diamine Derivatives. Journal of Organic Chemistry, 2007, 72, 1309-1314.	1.7	26
57	New pincer-like receptor derived from trans-cyclopentane-1,2-diamine as a chiral shift reagent for carboxylic acids. Tetrahedron: Asymmetry, 2007, 18, 1981-1985.	1.8	23
58	Chemoenzymatic syntheses of novel ligands derived from trans-cyclohexane-1,2-diamine: application in the enantioselective addition of diethylzinc to aromatic aldehydes. Tetrahedron: Asymmetry, 2006, 17, 449-454.	1.8	17
59	Redesigning the mechanism of the lipase-catalysed aminolysis of esters. Tetrahedron: Asymmetry, 2006, 17, 1264-1274.	1.8	16
60	Optically activetrans-2-aminocyclopentanols: Chemoenzymatic preparation and application as chiral ligands. Biotechnology Journal, 2006, 1, 835-841.	1.8	6
61	Enantioselective acylation of rac-2-phenylcycloalkanamines catalyzed by lipases. Tetrahedron: Asymmetry, 2005, 16, 3070-3076.	1.8	18
62	Kinetic Resolution of 1-Biaryl- and 1-(Pyridylphenyl)alkan-1-ols Catalysed by the Lipase B fromCandida antarctica. Advanced Synthesis and Catalysis, 2005, 347, 695-702.	2.1	18
63	Chemoenzymatic Preparation of Optically Activetrans-Cyclohexane-1,2-diamine Derivatives: An Efficient Synthesis of the Analgesic U-(â^')-50,488. Chemistry - A European Journal, 2004, 10, 5788-5794.	1.7	38
64	Kinetic resolution of (Â±)-trans- and (Â±)-cis-2-phenylcyclopentanamine by CALB-catalyzed aminolysis of esters: the key role of the leaving group. Tetrahedron: Asymmetry, 2004, 15, 481-488.	1.8	43
65	Chemoenzymatic preparation of optically active Î²-amino-cyclohexanols and their application in the enantioselective addition of diethylzinc to benzaldehyde. Tetrahedron: Asymmetry, 2004, 15, 1335-1341.	1.8	21
66	CAL-B-catalyzed resolution of some pharmacologically interesting Î²â€“substituted isopropylamines. Tetrahedron: Asymmetry, 2002, 13, 1315-1320.	1.8	73