

Eduardo Busto

List of Publications by Year in descending order

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56
papers

2,599
citations

186265

28
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189892

50
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74
all docs

74
docs citations

74
times ranked

2769
citing authors

#	ARTICLE	IF	CITATIONS
1	Candida antarctica Lipase B: An Ideal Biocatalyst for the Preparation of Nitrogenated Organic Compounds. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 797-812.	4.3	341
2	Hydrolases: catalytically promiscuous enzymes for non-conventional reactions in organic synthesis. <i>Chemical Society Reviews</i> , 2010, 39, 4504.	38.1	267
3	Recent Developments of Cascade Reactions Involving α -Transaminases. <i>ACS Catalysis</i> , 2014, 4, 129-143.	11.2	250
4	Hydrolases in the Stereoselective Synthesis of α -Heterocyclic Amines and Amino Acid Derivatives. <i>Chemical Reviews</i> , 2011, 111, 3998-4035.	47.7	126
5	Transaminases Applied to the Synthesis of High Added-Value Enantiopure Amines. <i>Organic Process Research and Development</i> , 2014, 18, 788-792.	2.7	78
6	Domino Meyer-Schuster/Arylation Reaction of Alkynols or Alkynyl Hydroperoxides with Diazonium Salts Promoted by Visible Light under Dual Gold and Ruthenium Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 1526-1533.	4.3	71
7	Asymmetric Chemoenzymatic Synthesis of Miconazole and Econazole Enantiomers. The Importance of Chirality in Their Biological Evaluation. <i>Journal of Organic Chemistry</i> , 2011, 76, 2115-2122.	3.2	65
8	Chemoenzymatic Synthesis of Rivastigmine Based on Lipase-Catalyzed Processes. <i>Journal of Organic Chemistry</i> , 2009, 74, 5304-5310.	3.2	56
9	Photopromoted Entry to Benzothiophenes, Benzoselenophenes, 3-Hydroxyindoles, Isocoumarins, Benzosultams, and (Thio)flavones by Gold-Catalyzed Arylative Heterocyclization of Alkynes. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2640-2652.	4.3	56
10	Biocatalytic One-Pot Synthesis of L-Tyrosine Derivatives from Monosubstituted Benzenes, Pyruvate, and Ammonia. <i>ACS Catalysis</i> , 2015, 5, 7503-7506.	11.2	54
11	Protein-Mediated Nitroaldol Addition in Aqueous Media. Catalytic Promiscuity or Unspecific Catalysis?. <i>Organic Process Research and Development</i> , 2011, 15, 236-240.	2.7	52
12	Enantioselective Synthesis of 4-(Dimethylamino)pyridines through a Chemical Oxidation-Enzymatic Reduction Sequence. Application in Asymmetric Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2626-2632.	4.3	51
13	Use of Protease from <i>Bacillus licheniformis</i> as Promiscuous Catalyst for Organic Synthesis: Applications in C-C and C-N Bond Formation Reactions. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2345-2353.	4.3	50
14	From Salts to Ionic Liquids by Systematic Structural Modifications: A Rational Approach Towards the Efficient Modular Synthesis of Enantiopure Imidazolium Salts. <i>Chemistry - A European Journal</i> , 2010, 16, 836-847.	3.3	49
15	Polymeric imidazolium ionic liquids as valuable stationary phases in gas chromatography: Chemical synthesis and full characterization. <i>Analytica Chimica Acta</i> , 2012, 721, 173-181.	5.4	46
16	Straightforward Synthesis of Enantiopure 2,3-Dihydrobenzofurans by a Sequential Stereoselective Biotransformation and Chemical Intramolecular Cyclization. <i>Organic Letters</i> , 2010, 12, 3498-3501.	4.6	44
17	Asymmetric Chemoenzymatic Synthesis of Ramatroban Using Lipases and Oxidoreductases. <i>Journal of Organic Chemistry</i> , 2012, 77, 4842-4848.	3.2	44
18	Biocontrolled Formal Inversion or Retention of α -Amino Acids to Enantiopure α - or β -Hydroxyacids. <i>Chemistry - A European Journal</i> , 2014, 20, 11225-11228.	3.3	42

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19	Cutting Short the Asymmetric Synthesis of the Ramatroban Precursor by Employing α -Transaminases. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1937-1942.	4.3	40
20	Vinylation of Unprotected Phenols Using a Biocatalytic System. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10899-10902.	13.8	40
21	Photoinduced Gold-Catalyzed Domino C(sp) Arylation/Oxyarylation of TMS-Terminated Alkynols with Arenediazonium Salts. <i>Journal of Organic Chemistry</i> , 2017, 82, 2177-2186.	3.2	39
22	Highly Stereoselective Chemoenzymatic Synthesis of the 3H-Isobenzofuran Skeleton. Access to Enantiopure 3-Methylphthalides. <i>Organic Letters</i> , 2012, 14, 1444-1447.	4.6	38
23	One-Pot Synthesis of Enantiopure 3,4-Dihydroisocoumarins through Dynamic Reductive Kinetic Resolution Processes. <i>Organic Letters</i> , 2013, 15, 3872-3875.	4.6	38
24	Stereoselective Synthesis of 2,3-Disubstituted Indoline Diastereoisomers by Chemoenzymatic Processes. <i>Journal of Organic Chemistry</i> , 2012, 77, 8049-8055.	3.2	35
25	Enzymatic Desymmetrization of Prochiral 2-Substituted-1,3-Diamines: Preparation of Valuable Nitrogenated Compounds. <i>Journal of Organic Chemistry</i> , 2009, 74, 2571-2574.	3.2	34
26	A synthetic biology approach for the transformation of α -amino acids to the corresponding enantiopure (R)- or (S)- α -hydroxy acids. <i>Chemical Communications</i> , 2015, 51, 2828-2831.	4.1	33
27	Versatile Synthesis of Polyfunctionalized Carbazoles from (3-Iodoindol-2-yl)butynols via a Gold-Catalyzed Intramolecular Iodine-Transfer Reaction. <i>ACS Catalysis</i> , 2015, 5, 3417-3421.	11.2	32
28	Sequential Biocatalytic Aldol Reactions in Multistep Asymmetric Synthesis: Pipecolic Acid, Piperidine and Pyrrolidine (Homo)Iminocyclitol Derivatives from Achiral Building Blocks. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 3007-3024.	4.3	31
29	Biocatalytic trifluoromethylation of unprotected phenols. <i>Nature Communications</i> , 2016, 7, 13323.	12.8	28
30	Enzymatic Preparation of Novel Aminoalkylpyridines using Lipases in Organic Solvents. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1481-1488.	4.3	27
31	Simple and straightforward synthesis of novel enantiopure ionic liquids via efficient enzymatic resolution of (R)-2-(1H-imidazol-1-yl)cyclohexanol. <i>Tetrahedron Letters</i> , 2007, 48, 5251-5254.	1.4	27
32	One-Pot, Two-Module Three-Step Cascade To Transform Phenol Derivatives to Enantiomerically Pure (R)- or (S)-p-Hydroxyphenyl Lactic Acids. <i>ACS Catalysis</i> , 2016, 6, 2393-2397.	11.2	26
33	First Desymmetrization of 1,3-Propanediamine Derivatives in Organic Solvent. Development of a New Route for the Preparation of Optically Active Amines. <i>Organic Letters</i> , 2007, 9, 4203-4206.	4.6	25
34	Evaluation of new ionic liquids as high stability selective stationary phases in gas chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1209-1216.	3.7	25
35	Biocatalytic preparation of optically active 4-(N,N-dimethylamino)pyridines for application in chemical asymmetric catalysis. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1007-1016.	1.8	22
36	Enantiopure Triazolium Salts: Chemoenzymatic Synthesis and Applications in Organocatalysis. <i>ChemCatChem</i> , 2011, 3, 1921-1928.	3.7	20

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37	Characterization of hexacationic imidazolium ionic liquids as effective and highly stable gas chromatography stationary phases. <i>Journal of Separation Science</i> , 2012, 35, 273-279.	2.5	20
38	Biocatalytic Transamination for the Asymmetric Synthesis of Pyridylalkylamines. Structural and Activity Features in the Reactivity of Transaminases. <i>ACS Catalysis</i> , 2016, 6, 4003-4009.	11.2	20
39	Asymmetric Biocatalytic Synthesis of Fluorinated Pyridines through Transesterification or Transamination: Computational Insights into the Reactivity of Transaminases. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 279-291.	4.3	20
40	Analysis of beer volatiles by polymeric imidazolium-solid phase microextraction coatings: Synthesis and characterization of polymeric imidazolium ionic liquids. <i>Journal of Chromatography A</i> , 2013, 1305, 35-40.	3.7	19
41	Recent Developments in the Preparation of Carbohydrate Derivatives from Achiral Building Blocks by using Aldolases. <i>ChemCatChem</i> , 2016, 8, 2589-2598.	3.7	19
42	Synthesis of Optically Active Heterocyclic Compounds by Preparation of 1,3-Dinitro Derivatives and Enzymatic Enantioselective Desymmetrization of Prochiral Diamines. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 484-493.	2.4	18
43	Chemoenzymatic Synthesis of Enantiomerically Pure <i>syn</i> -Configured 1-Aryl-3-methylisochroman Derivatives. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 111-121.	2.4	18
44	Chemoenzymatic Asymmetric Synthesis of 1,4-Benzoxazine Derivatives: Application in the Synthesis of a Levofloxacin Precursor. <i>Journal of Organic Chemistry</i> , 2015, 80, 3815-3824.	3.2	18
45	Chemoenzymatic synthesis of chiral 4-(N,N-dimethylamino)pyridine derivatives. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 3427-3435.	1.8	17
46	Chemoenzymatic Asymmetric Synthesis of Optically Active Pentane-1,5-diamine Fragments by Means of Lipase-Catalyzed Desymmetrization Transformations. <i>Journal of Organic Chemistry</i> , 2011, 76, 5709-5718.	3.2	16
47	Development of a chemoenzymatic strategy for the synthesis of optically active and orthogonally protected polyamines. <i>Tetrahedron</i> , 2009, 65, 8393-8401.	1.9	15
48	Enantiopure 3-methyl-3,4-dihydroisocoumarins and 3-methyl-1,2,3,4-tetrahydroisoquinolines via chemoenzymatic asymmetric transformations. <i>Catalysis Science and Technology</i> , 2012, 2, 1590.	4.1	12
49	Chemoenzymatic synthesis of optically active 2-(2- or 4-substituted-1H-imidazol-1-yl)cycloalkanol: chiral additives for (l)-proline. <i>Catalysis Science and Technology</i> , 2013, 3, 2596.	4.1	12
50	Dynamic Reductive Kinetic Resolution of Benzyl Ketones using Alcohol Dehydrogenases and Anion Exchange Resins. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 122-131.	4.3	12
51	Chiral Triazolium Salts and Ionic Liquids: From the Molecular Design Vectors to Their Physical Properties through Specific Supramolecular Interactions. <i>Chemistry - A European Journal</i> , 2013, 19, 892-904.	3.3	11
52	A Facile Synthesis of Blue Luminescent [7]Helicenocarbazoles Based on Gold-Catalyzed Rearrangement-Clodinium Migration and Suzuki-Miyaura Benzannulation Reactions. <i>Chemistry - A European Journal</i> , 2018, 24, 7620-7625.	3.3	11
53	Chemoenzymatic Asymmetric Synthesis of Serotonin Receptor Agonist (<i>R</i>)-Frovatriptan. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4057-4064.	2.4	9
54	Systems biocatalysis: para-alkenylation of unprotected phenols. <i>Catalysis Science and Technology</i> , 2016, 6, 8098-8103.	4.1	7

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55	Kinetic resolution of 4-chloro-2-(1-hydroxyalkyl)pyridines using <i>Pseudomonas cepacia</i> lipase. <i>Nature Protocols</i> , 2006, 1, 2061-2067.	12.0	6
56	Computational Study of the Lipase-Mediated Desymmetrisation of 2-Substituted-Propane-1,3-Diamines. <i>ChemBioChem</i> , 2009, 10, 2875-2883.	2.6	5