JesÃºs Joglar

List of Publications by Year
in descending order

93 papers	3,122 citations	126907 33 h-index	182427 51 g-index
106 all docs	106 docs citations	106 times ranked	2975 citing authors

#	Article	IF	Citations
1	Postprandial LDL phenolic content and LDL oxidation are modulated by olive oil phenolic compounds in humans. Free Radical Biology and Medicine, 2006, 40, 608-616.	2.9	245
2	Fructose-6-phosphate Aldolase in Organic Synthesis:â€‰ Preparation ofd-Fagomine,N-Alkylated Derivatives, and Preliminary Biological Assays. Organic Letters, 2006, 8, 6067-6070.	4.6	136
3	Asymmetric Selfâ€•and Crossâ€Aldol Reactions of Glycolaldehyde Catalyzed by <scp>D</scp>â€Fructoseâ€6â€phosphate Aldolase. Angewandte Chemie - International Edition, 2009, 48, 5521-5525.	13.8	116
4	<scp>D</scp>â€Fructoseâ€6â€phosphate Aldolase in Organic Synthesis: Cascade Chemicalâ€Enzymatic Preparation of Sugarâ€Related Polyhydroxylated Compounds. Chemistry - A European Journal, 2009, 15, 3808-3816.	3.3	104
5	Determination of MDMA and its Metabolites in Blood and Urine by Gas Chromatography-Mass Spectrometry and Analysis of Enantiomers by Capillary Electrophoresis. Journal of Analytical Toxicology, 2002, 26, 157-165.	2.8	98
6	A Mutant <scp>D</scp>â€Fructoseâ€6â€Phosphate Aldolase (Ala129Ser) with Improved Affinity towards Dihydroxyacetone for the Synthesis of Polyhydroxylated Compounds. Advanced Synthesis and Catalysis, 2010, 352, 1039-1046.	4.3	90
7	3,4-Dihydroxymethamphetamine (HHMA). A Major in Vivo 3,4-methylenedioxymethamphetamine (MDMA) Metabolite in Humans. Chemical Research in Toxicology, 2001, 14, 1203-1208.	3.3	89
8	Application of the Ibuka-Yamamoto reaction to a problem in stereochemical communication: a strategy for the stereospecific synthesis and stabilization of the triene substructure of rapamycin through sulfone substitution. Journal of Organic Chemistry, 1991, 56, 5834-5845.	3.2	88
9	Stereoselective Aldol Additions Catalyzed by Dihydroxyacetone Phosphate-Dependent Aldolases in Emulsion Systems: Preparation and Structural Characterization of Linear and Cyclic Iminopolyols from Aminoaldehydes. Chemistry - A European Journal, 2003, 9, 4887-4899.	3.3	88
10	Matrix effects on the bioavailability of resveratrol in humans. Food Chemistry, 2010, 120, 1123-1130.	8.2	71
11	Asymmetric assembly of aldose carbohydrates from formaldehyde and glycolaldehyde by tandem biocatalytic aldol reactions. Nature Chemistry, 2015, 7, 724-729.	13.6	63
12	Combining Aldolases and Transaminases for the Synthesis of 2-Amino-4-hydroxybutanoic Acid. ACS Catalysis, 2017, 7, 1707-1711.	11.2	60
13	Chemoenzymatic Synthesis and Inhibitory Activities of Hyacinthacines A₁ and A₂ Stereoisomers. Advanced Synthesis and Catalysis, 2007, 349, 1661-1666.	4.3	57
14	Dose-dependent metabolic disposition of hydroxytyrosol and formation of mercapturates in rats. Pharmacological Research, 2013, 77, 47-56.	7.1	54
15	Serine Hydroxymethyl Transferase from Streptococcus thermophilus and <scp>L</scp>â€Threonine Aldolase from Escherichia coli as Stereocomplementary Biocatalysts for the Synthesis of Î²â€Hydroxyâ€±,Ï‰â€diamino Acid Derivatives. Chemistry - A European Journal, 2008, 14, 4647-4656.	3.3	53
16	Synthetic studies toward rapamycin: a solution to a problem in chirality merger through use of the Ireland reaction. Journal of Organic Chemistry, 1991, 56, 5826-5834.	3.2	51
17	Antioxidant Activities of Hydroxytyrosol Main Metabolites Do Not Contribute to Beneficial Health Effects after Olive Oil Ingestion. Drug Metabolism and Disposition, 2010, 38, 1417-1421.	3.3	51
18	Aldol Additions of Dihydroxyacetone Phosphate toN-Cbz-Amino Aldehydes Catalyzed byL-Fuculose-1-Phosphate Aldolase in Emulsion Systems: Inversion of Stereoselectivity as a Function of the Acceptor Aldehyde. Chemistry - A European Journal, 2005, 11, 1392-1401.	3.3	50

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19	Dihydroxyacetone Phosphate Aldolase Catalyzed Synthesis of Structurally Diverse Polyhydroxylated Pyrrolidine Derivatives and Evaluation of their Glycosidase Inhibitory Properties. Chemistry - A European Journal, 2009, 15, 7310-7328.	3.3	49
20	Stereochemical analysis of 3,4-methylenedioxymethamphetamine and its main metabolites in human samples including the catechol-type metabolite (3,4-dihydroxymethamphetamine). Drug Metabolism and Disposition, 2004, 32, 1001-7.	3.3	46
21	Identification of new ozonation disinfection byproducts of 17Î²-estradiol and estrone in water. Chemosphere, 2011, 84, 1535-1541.	8.2	45
22	Direct analysis of glucuronidated metabolites of main olive oil phenols in human urine after dietary consumption of virgin olive oil. Food Chemistry, 2011, 126, 306-314.	8.2	42
23	Structure-guided redesign of d-fructose-6-phosphate aldolase from E. coli: remarkable activity and selectivity towards acceptor substrates by two-point mutation. Chemical Communications, 2011, 47, 5762.	4.1	41
24	Structureâ€Guided Minimalist Redesign of the <scp>L</scp>â€Fuculoseâ€1â€Phosphate Aldolase Active Site: Expedient Synthesis of Novel Polyhydroxylated Pyrrolizidines and their Inhibitory Properties Against Glycosidases and Intestinal Disaccharidases. Chemistry - A European Journal, 2010, 16, 10691-10706.	3.3	39
25	Untargeted Metabolomics in Doping Control: Detection of New Markers of Testosterone Misuse by Ultrahigh Performance Liquid Chromatography Coupled to High-Resolution Mass Spectrometry. Analytical Chemistry, 2015, 87, 8373-8380.	6.5	39
26	Redesign of the Phosphate Binding Site of <scp>L</scp>â€Rhamnuloseâ€1â€Phosphate Aldolase towards a Dihydroxyacetone Dependent Aldolase. Advanced Synthesis and Catalysis, 2011, 353, 89-99.	4.3	38
27	Detection, synthesis and characterization of metabolites of steroid hormones conjugated with cysteine. Steroids, 2013, 78, 327-336.	1.8	37
28	Screening for anabolic steroids in sports: Analytical strategy based on the detection of phase I and phase II intact urinary metabolites by liquid chromatography tandem mass spectrometry. Journal of Chromatography A, 2015, 1389, 65-75.	3.7	37
29	Biocatalyzed Synthesis and Structural Characterization of Monoglucuronides of Hydroxytyrosol, Tyrosol, Homovanillic Alcohol, and 3-(4â€²-Hydroxyphenyl)propanol. Advanced Synthesis and Catalysis, 2006, 348, 2155-2162.	4.3	35
30	Engineering the Donor Selectivity of <scp>D</scp>â€Fructoseâ€6â€Phosphate Aldolase for Biocatalytic Asymmetric Crossâ€Aldol Additions of Glycolaldehyde. Chemistry - A European Journal, 2014, 20, 12572-12583.	3.3	35
31	Engineered <scp>L</scp>â€Serine Hydroxymethyltransferase from Streptococcus thermophilus for the Synthesis of Î±,Î±â€Dialkylâ€Î±â€Amino Acids. Angewandte Chemie - International Edition, 2015, 54, 3013-3017.	13.8	35
32	Stereochemical analysis of 3,4-methylenedioxymethamphetamine and its main metabolites by gas chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 330-336.	1.5	34
33	Sequential Biocatalytic Aldol Reactions in Multistep Asymmetric Synthesis: Pipecolic Acid, Piperidine and Pyrrolidine (Homo)Iminocyclitol Derivatives from Achiral Building Blocks. Advanced Synthesis and Catalysis, 2014, 356, 3007-3024.	4.3	31
34	Preparation and reactivity of 2â€Azaâ€1,3â€butadienes: A Dielsâ€Alder route to 5,6â€dihydroâ€2 H â€1,3â€oxazine derivatives. Chemische Berichte, 1985, 118, 3652-3663.	0.2	30
35	Neurotoxic Thioether Adducts of 3,4-Methylenedioxymethamphetamine Identified in Human Urine After Ecstasy Ingestion. Drug Metabolism and Disposition, 2009, 37, 1448-1455.	3.3	30
36	Chemoenzymatic synthesis, structural study and biological activity of novel indolizidine and quinolizidine iminocyclitols. Organic and Biomolecular Chemistry, 2012, 10, 6309.	2.8	30

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37	Synthesis and capillary electrophoretic analysis of enantiomerically enriched reference standards of MDMA and its main metabolites. Bioorganic and Medicinal Chemistry, 2002, 10, 1085-1092.	3.0	29
38	Dielsâ˜'Alder Reactions of 2-Azabutadienes with Aldehydes:Â Ab Initio and Density Functional Theoretical Study of the Reaction Mechanism, Regioselectivity, Acid Catalysis, and Stereoselectivityâ€. Journal of Organic Chemistry, 1997, 62, 3919-3926.	3.2	28
39	Quantitative determination of paroxetine and its 4-hydroxy-3-methoxy metabolite in plasma by high-performance liquid chromatography/electrospray ion trap mass spectrometry: application to pharmacokinetic studies. Rapid Communications in Mass Spectrometry, 2003, 17, 1455-1461.	1.5	28
40	Detection and characterization of clostebol sulfate metabolites in Caucasian population. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1022, 54-63.	2.3	27
41	Highly efficient aldol additions of DHA and DHAP to N-Cbz-amino aldehydes catalyzed by l-rhamnulose-1-phosphate and l-fuculose-1-phosphate aldolases in aqueous borate buffer. Organic and Biomolecular Chemistry, 2011, 9, 8430.	2.8	26
42	Influence of N-amino protecting group on aldolase-catalyzed aldol additions of dihydroxyacetone phosphate to amino aldehydes. Tetrahedron, 2006, 62, 2648-2656.	1.9	25
43	Chemo-enzymatic synthesis and glycosidase inhibitory properties of DAB and LAB derivatives. Organic and Biomolecular Chemistry, 2013, 11, 2005.	2.8	25
44	Evaluation of two glucuronides resistant to enzymatic hydrolysis as markers of testosterone oral administration. Journal of Steroid Biochemistry and Molecular Biology, 2017, 165, 212-218.	2.5	25
45	Biocatalytic Aldol Addition of Simple Aliphatic Nucleophiles to Hydroxyaldehydes. ACS Catalysis, 2018, 8, 8804-8809.	11.2	25
46	Synthesis of Î³-Hydroxy-Î±-amino Acid Derivatives by Enzymatic Tandem Aldol Additionâ€"Transamination Reactions. ACS Catalysis, 2021, 11, 4660-4669.	11.2	25
47	Nucleophile Promiscuity of Engineered Classâ€…II Pyruvate Aldolase YfaU from E.â€…Coli. Angewandte Chemie - International Edition, 2018, 57, 3583-3587.	13.8	22
48	Cytotoxicity and enzymatic activity inhibition in cell lines treated with novel iminosugar derivatives. Glycoconjugate Journal, 2010, 27, 277-285.	2.7	21
49	Structureâ€Guided Engineering of <scp>D</scp>â€Fructoseâ€6â€Phosphate Aldolase for Improved Acceptor Tolerance in Biocatalytic Aldol Additions. Advanced Synthesis and Catalysis, 2015, 357, 1787-1807.	4.3	20
50	2â€Ketoâ€3â€Deoxyâ€<scp>l</scp>â€Rhamnonate Aldolase (YfaU) as Catalyst in Aldol Additions of Pyruvate to Amino Aldehyde Derivatives. Advanced Synthesis and Catalysis, 2017, 359, 2090-2100.	4.3	20
51	Aldolaseâ€Catalyzed Asymmetric Synthesis of Nâ€Heterocycles by Addition of Simple Aliphatic Nucleophiles to Aminoaldehydes. Advanced Synthesis and Catalysis, 2019, 361, 2673-2687.	4.3	19
52	An application of the evans-prasad 1,3-syn diol synthesis to a stereospecific synthesis of the C10-C27 segment of rapamycin. Tetrahedron Letters, 1993, 34, 3993-3996.	1.4	18
53	Enzymatic Desaturation of Fatty Acids:Â Î"11Desaturase Activity on Cyclopropane Acid Probes. Journal of Organic Chemistry, 2003, 68, 2820-2829.	3.2	18
54	A simple regiospecific synthesis of substituted pyridines from 2-aza-1,3-dienes. Journal of Organic Chemistry, 1988, 53, 5960-5963.	3.2	17

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55	Solid phase synthesis of cyclopropenes. Tetrahedron Letters, 1998, 39, 9819-9822.	1.4	17
56	High-performance liquid chromatography with electrochemical detection applied to the analysis of 3,4-dihydroxymethamphetamine in human plasma and urine. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 769, 313-321.	2.3	17
57	Unsaturated Fatty Alcohol Derivatives of Olive Oil Phenolic Compounds with Potential Low-Density Lipoprotein (LDL) Antioxidant and Antiobesity Properties. Journal of Agricultural and Food Chemistry, 2012, 60, 1067-1074.	5.2	17
58	Aldolase-Catalyzed Synthesis of Conformationally Constrained Iminocyclitols: Preparation of Polyhydroxylated Benzopyrrolizidines and Cyclohexapyrrolizidines. Organic Letters, 2014, 16, 1422-1425.	4.6	17
59	Ultra high performance liquid chromatography tandem mass spectrometric detection of glucuronides resistant to enzymatic hydrolysis: Implications to doping control analysis. Analytica Chimica Acta, 2015, 895, 35-44.	5.4	17
60	Casuarine Stereoisomers from Achiral Substrates: Chemoenzymatic Synthesis and Inhibitory Properties. Journal of Organic Chemistry, 2014, 79, 5386-5389.	3.2	16
61	Treatment with a novel oleic-acidâ€“dihydroxyamphetamine conjugation ameliorates non-alcoholic fatty liver disease in obese Zucker rats. DMM Disease Models and Mechanisms, 2015, 8, 1213-1225.	2.4	16
62	<scp>d</scp>-Fagomine attenuates metabolic alterations induced by a high-energy-dense diet in rats. Food and Function, 2015, 6, 2614-2619.	4.6	16
63	Evaluation of markers out of the steroid profile for the screening of testosterone misuse. Part I: Transdermal administration. Drug Testing and Analysis, 2018, 10, 821-831.	2.6	16
64	In situ aldehyde generation for aldol addition reactions catalyzed by d-fructose-6-phosphate aldolase. Journal of Molecular Catalysis B: Enzymatic, 2012, 84, 102-107.	1.8	15
65	Chemoenzymatic Hydroxymethylation of Carboxylic Acids by Tandem Stereodivergent Biocatalytic Aldol Reaction and Chemical Decarboxylation. ACS Catalysis, 2019, 9, 7568-7577.	11.2	15
66	Serotonergic Neurotoxic Thioether Metabolites of 3,4-Methylenedioxymethamphetamine (MDMA,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Toxicology, 2008, 21, 2272-2279.	3.3	14
67	A simple stereoselective synthesis of primary allylic amines from 4-amino-1-azadienes. Journal of the Chemical Society Chemical Communications, 1989, , 1132.	2.0	13
68	Expedient Synthesis of C â€Aryl Carbohydrates by Consecutive Biocatalytic Benzoin and Aldol Reactions. Chemistry - A European Journal, 2015, 21, 3335-3346.	3.3	13
69	Intramolecular Benzoin Reaction Catalyzed by Benzaldehyde Lyase from Pseudomonas Fluorescens Biovar I. Angewandte Chemie - International Edition, 2017, 56, 5304-5307.	13.8	13
70	Synthesis of the major metabolites of Paroxetine. Bioorganic Chemistry, 2003, 31, 248-258.	4.1	12
71	Engineered <scp>L</scp>â€Serine Hydroxymethyltransferase from Streptococcus thermophilus for the Synthesis of Î±,Î±â€Dialkylâ€Î±â€Amino Acids. Angewandte Chemie, 2015, 127, 3056-3060.	2.0	12
72	Evaluation of markers out of the steroid profile for the screening of testosterone misuse. Part II: Intramuscular administration. Drug Testing and Analysis, 2018, 10, 849-859.	2.6	12

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73	Nucleophile Promiscuity of Engineered Classâ€…II Pyruvate Aldolase YfaU from E.â€…Coli. Angewandte Chemie, 2018, 130, 3645-3649.	2.0	11
74	Reaction of 3-amino-2-alkenimines with alkali metals: unexpected synthesis of substituted 4-(arylamino)quinolines. Journal of Organic Chemistry, 1989, 54, 2596-2598.	3.2	10
75	Synthesis of 1,3-Amino Alcohols from 2-Aza-1,3-dienes by Reduction of 5,6-Dihydro-2H-1,3-oxazines. Synthesis, 1991, 1991, 387-393.	2.3	10
76	Trapping of Cyclopropenyl Radicals by 5,5-Dimethyl-1-pyrroline-N-oxide. Journal of Organic Chemistry, 1999, 64, 5096-5099.	3.2	10
77	Synthesis and evaluation of diverse analogs of amygdalin as potential peptidomimetics of peptide T. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1493-1496.	2.2	10
78	Synthesis and characterization of 6Î²â€hydroxyandrosterone and 6Î²â€hydroxyetiocholanolone conjugated with glucuronic acid. Drug Testing and Analysis, 2015, 7, 247-252.	2.6	10
79	Biocatalytic Construction of Quaternary Centers by Aldol Addition of 3,3-Disubstituted 2-Oxoacid Derivatives to Aldehydes. Journal of the American Chemical Society, 2020, 142, 19754-19762.	13.7	10
80	Silylation of 2-Aza-1,3-dienes. The first example of a thermally stable N-trimethyl-silyldivinylamine. Journal of the Chemical Society Chemical Communications, 1986, , 361.	2.0	8
81	Unexpected formation of N-(2-cyclopropenyl)phthalimides in the photosensitized decarboxylation of N-(2-cyclopropenylcarbonyloxy)phthalimides. Tetrahedron Letters, 1998, 39, 1079-1082.	1.4	8
82	Stereoselective Syntheses of Allylic Amines Through Reduction of 1-Azadiene Intermediates. Tetrahedron, 2000, 56, 8179-8187.	1.9	8
83	LCâ€MS/MS detection of unaltered glucuronoconjugated metabolites of metandienone. Drug Testing and Analysis, 2017, 9, 534-544.	2.6	8
84	Reduction of 5,6-dihydro-2H-1,3-oxazines. A simple approach to 1,3-aminoalcohols from 2-aza-1,3-dienes. Tetrahedron Letters, 1989, 30, 2001-2004.	1.4	7
85	Synthesis of Fatty Acid Amides of Catechol Metabolites that Exhibit Antiobesity Properties. ChemMedChem, 2010, 5, 1781-1787.	3.2	7
86	Intramolecular Benzoin Reaction Catalyzed by Benzaldehyde Lyase from Pseudomonas Fluorescens Biovar I. Angewandte Chemie, 2017, 129, 5388-5391.	2.0	7
87	Chemoenzymatic Production of Enantiocomplementary 2â€Substituted 3â€Hydroxycarboxylic Acids from l â€Î±â€Amino Acids. Advanced Synthesis and Catalysis, 2021, 363, 2866-2876.	4.3	7
88	Ionization and collision induced dissociation of steroid bisglucuronides. Journal of Mass Spectrometry, 2017, 52, 759-769.	1.6	5
89	Synthesis and NMR configurational study of imidazo[2,1-b]thiazoles from 1H-1,4-diazepine-7(6H)-thiones. Tetrahedron, 1993, 49, 6619-6626.	1.9	4
90	Effects of MDMA (ecstasy) and two of its metabolites on rat embryos in vitro. Reproductive Toxicology, 2012, 34, 57-65.	2.9	3

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91	Novel Strategies in Aldolase-Catalyzed Synthesis of Iminosugars. , 0, , 299-311.		1
92	Titelbild: Nucleophile Promiscuity of Engineered Classâ€…II Pyruvate Aldolase YfaU from E.â€…Coli (Angew. Chem. 14/2018). Angewandte Chemie, 2018, 130, 3581-3581.	2.0	0
93	Carbonâ€“Carbon Bond-Forming Enzymes for the Synthesis of Non-natural Amino Acids. Methods in Molecular Biology, 2012, 794, 73-85.	0.9	0