Jordi Bujons

List of Publications by Year
in descending order

80 papers	1,887 citations	218592 26 h-index	302012 39 g-index
88 all docs	88 docs citations	88 times ranked	2620 citing authors

#	Article	IF	Citations
1	Dynamic Combinatorial Optimization of In Vitro and In Vivo Heparin Antidotes. Journal of Medicinal Chemistry, 2022, 65, 4865-4877.	2.9	3
2	Chemoenzymatic Production of Enantiocomplementary 2â€Substituted 3â€Hydroxycarboxylic Acids from l â€Î±â€Amino Acids. Advanced Synthesis and Catalysis, 2021, 363, 2866-2876.	2.1	7
3	Synthesis of Î³-Hydroxy-Î±-amino Acid Derivatives by Enzymatic Tandem Aldol Additionâ€“Transamination Reactions. ACS Catalysis, 2021, 11, 4660-4669.	5.5	25
4	Semaphorin 3Aâ€"Glycosaminoglycans Interaction as Therapeutic Target for Axonal Regeneration. Pharmaceuticals, 2021, 14, 906.	1.7	3
5	Inhibition of Sema-3A Promotes Cell Migration, Axonal Growth, and Retinal Ganglion Cell Survival. Translational Vision Science and Technology, 2021, 10, 16.	1.1	2
6	Titelbild: Liveâ€Cellâ€Templated Dynamic Combinatorial Chemistry (Angew. Chem. 39/2020). Angewandte Chemie, 2020, 132, 16949-16949.	1.6	0
7	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.	6.6	10
8	Liveâ€Cellâ€Templated Dynamic Combinatorial Chemistry. Angewandte Chemie, 2020, 132, 17355-17359.	1.6	5
9	Liveâ€Cellâ€Templated Dynamic Combinatorial Chemistry. Angewandte Chemie - International Edition, 2020, 59, 17202-17206.	7.2	20
10	Chemoenzymatic Hydroxymethylation of Carboxylic Acids by Tandem Stereodivergent Biocatalytic Aldol Reaction and Chemical Decarboxylation. ACS Catalysis, 2019, 9, 7568-7577.	5.5	15
11	Aldolaseâ€Catalyzed Asymmetric Synthesis of Nâ€Heterocycles by Addition of Simple Aliphatic Nucleophiles to Aminoaldehydes. Advanced Synthesis and Catalysis, 2019, 361, 2673-2687.	2.1	19
12	Identification of benzo[cd]indol-2(1H)-ones as novel Atg4B inhibitors via a structure-based virtual screening and a novel AlphaScreen assay. European Journal of Medicinal Chemistry, 2019, 178, 648-666.	2.6	15
13	Nucleophile Promiscuity of Engineered Classâ€…II Pyruvate Aldolase YfaU from E.â€…Coli. Angewandte Chemie, 2018, 130, 3645-3649.	1.6	11
14	Nucleophile Promiscuity of Engineered Classâ€…II Pyruvate Aldolase YfaU from E.â€…Coli. Angewandte Chemie - International Edition, 2018, 57, 3583-3587.	7.2	22
15	Titelbild: Nucleophile Promiscuity of Engineered Classâ€…II Pyruvate Aldolase YfaU from E.â€…Coli (Angew. Chem. 14/2018). Angewandte Chemie, 2018, 130, 3581-3581.	1.6	0
16	Dynamic Covalent Identification of an Efficient Heparin Ligand. Angewandte Chemie, 2018, 130, 12149-12153.	1.6	8
17	Dynamic Covalent Identification of an Efficient Heparin Ligand. Angewandte Chemie - International Edition, 2018, 57, 11973-11977.	7.2	20
18	Biocatalytic Aldol Addition of Simple Aliphatic Nucleophiles to Hydroxyaldehydes. ACS Catalysis, 2018, 8, 8804-8809.	5.5	25

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19	Combining Aldolases and Transaminases for the Synthesis of 2-Amino-4-hydroxybutanoic Acid. ACS Catalysis, 2017, 7, 1707-1711.	5.5	60
20	The first fluorogenic sensor for sphingosine-1-phosphate lyase activity in intact cells. Chemical Communications, 2017, 53, 5441-5444.	2.2	12
21	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.	2.1	20
22	Entropy-driven homochiral self-sorting of a dynamic library. Chemical Communications, 2017, 53, 4274-4277.	2.2	17
23	Intramolecular Benzoin Reaction Catalyzed by Benzaldehyde Lyase from Pseudomonas Fluorescens Biovar I. Angewandte Chemie - International Edition, 2017, 56, 5304-5307.	7.2	13
24	Cationic Peptides and Peptidomimetics Bind Glycosaminoglycans as Potential Sema3A Pathway Inhibitors. Biophysical Journal, 2016, 110, 1291-1303.	0.2	17
25	Studies on the inhibition of sphingosine-1-phosphate lyase by stabilized reaction intermediates and stereodefined azido phosphates. European Journal of Medicinal Chemistry, 2016, 123, 905-915.	2.6	2
26	Bacterial versus human sphingosine-1-phosphate lyase (S1PL) in the design of potential S1PL inhibitors. Bioorganic and Medicinal Chemistry, 2016, 24, 4381-4389.	1.4	3
27	Positional Scanning Synthesis of a Peptoid Library Yields New Inducers of Apoptosis that Target Karyopherins and Tubulin. ChemBioChem, 2015, 16, 1580-1587.	1.3	10
28	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.	2.1	20
29	Saltâ€Induced Adaptation of a Dynamic Combinatorial Library of Pseudopeptidic Macrocycles: Unraveling the Electrostatic Effects in Mixed Aqueous Media. Chemistry - A European Journal, 2015, 21, 6869-6878.	1.7	30
30	Efficient Synthesis of Conformationally Restricted Apoptosis Inhibitors Bearing a Triazole Moiety. Chemistry - A European Journal, 2015, 21, 14122-14128.	1.7	12
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, 2015, 127, 3056-3060.	1.6	12
32	Expedient Synthesis of C â€Aryl Carbohydrates by Consecutive Biocatalytic Benzoin and Aldol Reactions. Chemistry - A European Journal, 2015, 21, 3335-3346.	1.7	13
33	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.	7.2	35
34	Synthesis and Evaluation of Hydroxymethylaminocyclitols as Glycosidase Inhibitors. Journal of Organic Chemistry, 2015, 80, 3512-3529.	1.7	17
35	Asymmetric assembly of aldose carbohydrates from formaldehyde and glycolaldehyde by tandem biocatalytic aldol reactions. Nature Chemistry, 2015, 7, 724-729.	6.6	63
36	Apaf-1 Inhibitors Protect from Unwanted Cell Death in In Vivo Models of Kidney Ischemia and Chemotherapy Induced Ototoxicity. PLoS ONE, 2014, 9, e110979.	1.1	22

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37	Inhibition of dihydroceramide desaturase activity by the sphingosine kinase inhibitor SKI II. Journal of Lipid Research, 2014, 55, 1711-1720.	2.0	66
38	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.	1.7	35
39	Selective chaperone effect of aminocyclitol derivatives on G202R and other mutant glucocerebrosidases causing Gaucher disease. International Journal of Biochemistry and Cell Biology, 2014, 54, 245-254.	1.2	8
40	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.	2.1	31
41	Optimizing the control of apoptosis by amide/triazole isosteric substitution in a constrained peptoid. European Journal of Medicinal Chemistry, 2013, 63, 892-896.	2.6	18
42	15N NMR spectroscopic and theoretical GIAO-DFT studies for the unambiguous characterization of disubstituted 1,2,3-triazoles. Organic and Biomolecular Chemistry, 2013, 11, 7318.	1.5	15
43	Chemo-enzymatic synthesis and glycosidase inhibitory properties of DAB and LAB derivatives. Organic and Biomolecular Chemistry, 2013, 11, 2005.	1.5	25
44	Allopregnanolone and Pregnanolone Analogues Modified in the C Ring: Synthesis and Activity. Journal of Medicinal Chemistry, 2013, 56, 2323-2336.	2.9	11
45	Chemoenzymatic synthesis, structural study and biological activity of novel indolizidine and quinolizidine iminocyclitols. Organic and Biomolecular Chemistry, 2012, 10, 6309.	1.5	30
46	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.	1.5	26
47	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.	2.2	41
48	Computational Prediction of Structureâ^'Activity Relationships for the Binding of Aminocyclitols to Î²-Glucocerebrosidase. Journal of Chemical Information and Modeling, 2011, 51, 601-611.	2.5	14
49	New Glucocerebrosidase Inhibitors by Exploration of Chemical Diversity of N-Substituted Aminocyclitols Using Click Chemistry and in Situ Screening. Journal of Medicinal Chemistry, 2011, 54, 2069-2079.	2.9	36
50	Triazine-Based Vanilloid 1 Receptor Open Channel Blockers: Design, Synthesis, Evaluation, and SAR Analysis. Journal of Medicinal Chemistry, 2011, 54, 7441-7452.	2.9	21
51	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.	2.1	38
52	Chemical Modulation of Peptoids: Synthesis and Conformational Studies on Partially Constrained Derivatives. Chemistry - A European Journal, 2011, 17, 7927-7939.	1.7	33
53	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.	1.7	39
54	Click Chemistry Approach to New N-Substituted Aminocyclitols as Potential Pharmacological Chaperones for Gaucher Disease. Journal of Medicinal Chemistry, 2010, 53, 5248-5255.	2.9	55

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55	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.	1.7	49
56	Novel separation of bioactive catechin derivatives from complex plant mixtures by anion-exchange chromatography. Separation and Purification Technology, 2008, 62, 317-322.	3.9	7
57	Activity of B-Nor Analogues of Neurosteroids on the GABAAReceptor in Primary Neuronal Cultures. Journal of Medicinal Chemistry, 2006, 49, 3225-3234.	2.9	27
58	Biosynthesis of 10,12-dienoic fatty acids by a bifunctional Î”11desaturase in Spodoptera littoralis. Insect Biochemistry and Molecular Biology, 2006, 36, 634-641.	1.2	29
59	Allosteric positive interaction of thymol with the GABAA receptor in primary cultures of mouse cortical neurons. Neuropharmacology, 2006, 50, 25-35.	2.0	113
60	Influence of N-amino protecting group on aldolase-catalyzed aldol additions of dihydroxyacetone phosphate to amino aldehydes. Tetrahedron, 2006, 62, 2648-2656.	1.0	25
61	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.	1.7	50
62	Studies on Toxic Oil Syndrome:Â Stereoselective Hydrolysis of 3-(Phenylamino)propane-1,2-diol Esters by Human Pancreatic Lipase. Chemical Research in Toxicology, 2004, 17, 889-895.	1.7	7
63	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.	1.7	88
64	The organochlorine pesticides Î³-hexachlorocyclohexane (lindane), Î±-endosulfan and dieldrin differentially interact with GABAA and glycine-gated chloride channels in primary cultures of cerebellar granule cells. Neuroscience, 2003, 117, 397-403.	1.1	83
65	Metabolism of (R)- and (S)-3-(Phenylamino)propane-1,2-diol in C57BL/6- and A/J-Strain Mice. Identification of New Metabolites with Potential Toxicological Significance to the Toxic Oil Syndrome. Chemical Research in Toxicology, 2001, 14, 1097-1106.	1.7	15
66	Metabolism of R,S Enantiomers of 3-Phenylamino-1,2-Propanediol, a Compound Associated with the Toxic Oil Syndrome, in C57BL/6- and A/J-Strain Mice. Advances in Experimental Medicine and Biology, 2001, 500, 525-529.	0.8	1
67	Cytochrome c Peroxidaseâ”Cytochrome c Complex:â€‰ Locating the Second Binding Domain on Cytochrome c Peroxidase with Site-Directed Mutagenesis. Biochemistry, 2000, 39, 10132-10139.	1.2	52
68	Mutants That Alter the Covalent Structure of Catalase Hydroperoxidase II from Escherichia coli xs. Journal of Biological Chemistry, 1999, 274, 27717-27725.	1.6	30
69	Biotransformation and Clearance of 3-(Phenylamino)propane-1,2-diol, a Compound Present in Samples Related to Toxic Oil Syndrome, in C57BL/6 and A/J Mice. Chemical Research in Toxicology, 1999, 12, 1127-1137.	1.7	18
70	NÎµ,NÎµ-Dimethyl-lysine cytochrome c as an NMR probe for lysine involvement in proteinâ€“protein complex formation. Biochemical Journal, 1998, 332, 439-449.	1.7	24
71	Charge Reversal of a Critical Active-Site Residue of Cytochrome-c Peroxidase. Characterization of the Arg48Glu Variant. FEBS Journal, 1997, 243, 72-84.	0.2	21
72	Mutagenic evidence concerning the location of two binding sites for cytochrome C on the surface of cytochrome C peroxidase. Journal of Inorganic Biochemistry, 1995, 59, 432.	1.5	0

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73	Aflatoxin M1 8,9-Epoxide: Preparation and Mutagenic Activity. Chemical Research in Toxicology, 1995, 8, 328-332.	1.7	12
74	A Convenient Synthesis of the Toxicophoric Furo[2,3-b]benzofuran Fragment Present in Aflatoxin M1. Synlett, 1994, 1994, 437-438.	1.0	4
75	A study of the interconversion between 3,4-dihydro-4-formyl-2-hydroxy-2H-benzopyran and 2,3,3a,8a-tetrahydro-2-hydroxyfuro[2,3-b]benzofuran moieties, and its application to a formal synthesis of (Â±)-aflatoxin B1. Tetrahedron, 1994, 50, 7597-7610.	1.0	10
76	A convenient entry to the toxicophoric furo[2,3-b] benzofuran fragment present in aflatoxins. Tetrahedron Letters, 1992, 33, 6387-6388.	0.7	4
77	Synthesis and mutagenicity of the aflatoxin B1 model 3a,8a-dihydro-4,6-dimethoxyfuro[2,3-b]benzofuran and its 2,3-epoxy derivative. Journal of Agricultural and Food Chemistry, 1991, 39, 1723-1728.	2.4	5
78	Use of dimethyldioxirane in the preparation of highly reactive compounds: First direct epoxidation of precocenes. Tetrahedron Letters, 1990, 31, 5235-5236.	0.7	35
79	NEW CARBON-PHOSPHORUS BOND CONTAINING COMPOUND IN THE REACTION OF 2-ACETYLTHIOPHENE WITH PHOSPHORUS PENTACHLORIDE. Phosphorus, Sulfur and Silicon and the Related Elements, 1990, 54, 205-207.	0.8	1
80	Enantioselective enzymic sterol synthesis by ultrasonically stimulated bakers' yeast. Journal of the American Chemical Society, 1988, 110, 604-606.	6.6	47