JesÃºs H Busto

List of Publications by Year
in descending order

96 papers	2,231 citations	201674 27 h-index	289244 40 g-index
105 all docs	105 docs citations	105 times ranked	2049 citing authors

#	Article	IF	Citations
1	Serine versus Threonine Glycosylation:â€‰ The Methyl Group Causes a Drastic Alteration on the Carbohydrate Orientation and on the Surrounding Water Shell. Journal of the American Chemical Society, 2007, 129, 9458-9467.	13.7	127
2	Investigations of La Rioja Terroir for Wine Production Using ¹H NMR Metabolomics. Journal of Agricultural and Food Chemistry, 2012, 60, 3452-3461.	5.2	121
3	New Insights into Î±-GalNAcâˆ'Ser Motif:â€‰ Influence of Hydrogen Bonding versus Solvent Interactions on the Preferred Conformation. Journal of the American Chemical Society, 2006, 128, 14640-14648.	13.7	78
4	A Thorough Study on the Use of Quantitative ¹H NMR in Rioja Red Wine Fermentation Processes. Journal of Agricultural and Food Chemistry, 2009, 57, 2112-2118.	5.2	73
5	Deciphering the Nonâ€Equivalence of Serine and Threonine <i>O</i>â€Glycosylation Points: Implications for Molecular Recognition of the Tn Antigen by an antiâ€MUC1 Antibody. Angewandte Chemie - International Edition, 2015, 54, 9830-9834.	13.8	65
6	Selective Michaelâˆ'Aldol Reaction by Use of Sterically Hindered Aluminum Aryloxides as Lewis Acids:â€‰ An Easy Approach to Cyclobutane Amino Acids. Organic Letters, 2005, 7, 3597-3600.	4.6	51
7	Structure-Based Design of Potent Tumor-Associated Antigens: Modulation of Peptide Presentation by Single-Atom O/S or O/Se Substitutions at the Glycosidic Linkage. Journal of the American Chemical Society, 2019, 141, 4063-4072.	13.7	51
8	SN2 vs. E2 on quaternary centres: an application to the synthesis of enantiopure Î²2,2-amino acids. Chemical Communications, 2004, , 980-981.	4.1	47
9	Time Course of the Evolution of Malic and Lactic Acids in the Alcoholic and Malolactic Fermentation of Grape Must by Quantitative1H NMR (qHNMR) Spectroscopy. Journal of Agricultural and Food Chemistry, 2006, 54, 4715-4720.	5.2	47
10	S-Michael Additions to Chiral Dehydroalanines as an Entry to Glycosylated Cysteines and a Sulfa-Tn Antigen Mimic. Journal of the American Chemical Society, 2014, 136, 789-800.	13.7	42
11	Detection of Tumor-Associated Glycopeptides by Lectins: The Peptide Context Modulates Carbohydrate Recognition. ACS Chemical Biology, 2015, 10, 747-756.	3.4	39
12	New synthesis of 7-azabicyclo[2.2.1]heptane-1-carboxylic acid. Tetrahedron, 2001, 57, 545-548.	1.9	38
13	Stereoselective Synthesis of Orthogonally Protected Î±-Methylnorlanthionine. Organic Letters, 2006, 8, 2855-2858.	4.6	38
14	Effect of Î²-O-Glucosylation onL-Ser andL-Thr Diamides: A Bias toward Î±-Helical Conformations. Chemistry - A European Journal, 2006, 12, 7864-7871.	3.3	36
15	Theoretical Evidence for Pyramidalized Bicyclic Serine Enolates in Highly Diastereoselective Alkylations. Chemistry - A European Journal, 2007, 13, 4840-4848.	3.3	36
16	Serine versus Threonine Glycosylation with Î±â€<i>O</i>â€GalNAc: Unexpected Selectivity in Their Molecular Recognition with Lectins. Chemistry - A European Journal, 2014, 20, 12616-12627.	3.3	36
17	Mucin architecture behind the immune response: design, evaluation and conformational analysis of an antitumor vaccine derived from an unnatural MUC1 fragment. Chemical Science, 2016, 7, 2294-2301.	7.4	35
18	The Use of Fluoroproline in MUC1 Antigen Enables Efficient Detection of Antibodies in Patients with Prostate Cancer. Journal of the American Chemical Society, 2017, 139, 18255-18261.	13.7	33

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19	Water Sculpts the Distinctive Shapes and Dynamics of the Tumor-Associated Carbohydrate Tn Antigens: Implications for Their Molecular Recognition. Journal of the American Chemical Society, 2018, 140, 9952-9960.	13.7	33
20	SN2 Reaction of Sulfur Nucleophiles with Hindered Sulfamidates:Â Enantioselective Synthesis of Î±-Methylisocysteine. Journal of Organic Chemistry, 2006, 71, 1692-1695.	3.2	32
21	Tn Antigen Mimics Based on <i>sp</i>²-Iminosugars with Affinity for an anti-MUC1 Antibody. Organic Letters, 2016, 18, 3890-3893.	4.6	32
22	exo-2-Phenyl-7-azabicyclo[2.2.1]heptane-1-carboxylic acid: A new constrained proline analogue. Tetrahedron Letters, 1995, 36, 7123-7126.	1.4	31
23	Synthesis of Cyclobutane Serine Analogues. Journal of Organic Chemistry, 2005, 70, 330-333.	3.2	29
24	Insights into the Geometrical Features Underlying Î²â€‹<i>O</i>â€GlcNAc Glycosylation: Water Pockets Drastically Modulate the Interactions between the Carbohydrate and the Peptide Backbone. Chemistry - A European Journal, 2009, 15, 7297-7301.	3.3	29
25	Bifunctional Chiral Dehydroalanines for Peptide Coupling and Stereoselective <i>S</i>-Michael Addition. Organic Letters, 2016, 18, 2796-2799.	4.6	29
26	Asymmetric Hetero Dielsâˆ'Alder as an Access to Carbacephams. Journal of Organic Chemistry, 2002, 67, 598-601.	3.2	28
27	Reactivity of (Z)-4-arylidene-5(4H)-oxazolones: [4+2] cycloaddition versus [4+3] cycloaddition/nucleophilic trapping. Tetrahedron Letters, 2002, 43, 4167-4170.	1.4	28
28	A Convenient Enantioselective Synthesis of (S)-Î±-Trifluoromethylisoserine. Journal of Organic Chemistry, 2005, 70, 5721-5724.	3.2	28
29	Role of the Countercation in Diastereoselective Alkylations of Pyramidalized Bicyclic Serine Enolates. An Easy Approach to Î±-Benzylserine. Journal of Organic Chemistry, 2007, 72, 5399-5402.	3.2	28
30	Cyclobutane Amino Acid Analogues of Furanomycin Obtained by a Formal [2 + 2] Cycloaddition Strategy Promoted by Methylaluminoxane. Journal of Organic Chemistry, 2010, 75, 545-552.	3.2	27
31	Evidence of Metabolic Transformations of Amino Acids into Higher Alcohols through ¹³C NMR Studies of Wine Alcoholic Fermentation. Journal of Agricultural and Food Chemistry, 2010, 58, 4923-4927.	5.2	25
32	Stereocontrolled Ring-Opening of a Hindered Sulfamidate with Nitrogen-Containing Aromatic Heterocycles: Synthesis of Chiral Quaternary Imidazole Derivatives. Journal of Organic Chemistry, 2011, 76, 4034-4042.	3.2	25
33	NMR Study of Histidine Metabolism during Alcoholic and Malolactic Fermentations of Wine and Their Influence on Histamine Production. Journal of Agricultural and Food Chemistry, 2013, 61, 9464-9469.	5.2	25
34	A new efficient synthesis of 2-phenyl-4-oxo-1-amino-cyclohexanecarboxylic acids. Tetrahedron, 1994, 50, 12989-12998.	1.9	24
35	Nonâ€natural Amino Acids as Modulating Agents of the Conformational Space of Model Glycopeptides. Chemistry - A European Journal, 2008, 14, 7042-7058.	3.3	24
36	Rational design of a Tn antigen mimic. Chemical Communications, 2011, 47, 5319.	4.1	24

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37	Synthesis, conformational analysis and <i>in vivo</i> assays of an anti-cancer vaccine that features an unnatural antigen based on an sp²-iminosugar fragment. Chemical Science, 2020, 11, 3996-4006.	7.4	24
38	A Novel Multistep Mechanism for the Stereocontrolled Ring Opening of Hindered Sulfamidates: Mild, Green, and Efficient Reactivity with Alcohols. Chemistry - A European Journal, 2009, 15, 9810-9823.	3.3	23
39	Synthesis of enantiopure analogues of 3-hydroxyproline and derivatives. Tetrahedron: Asymmetry, 2002, 13, 625-632.	1.8	22
40	Highly chemoselective reactions on hindered sulfamidates with oxygenated nucleophiles. Tetrahedron: Asymmetry, 2008, 19, 443-449.	1.8	22
41	The Nature and Sequence of the Amino Acid Aglycone Strongly Modulates the Conformation and Dynamics Effects of Tn Antigen's Clusters. Chemistry - A European Journal, 2009, 15, 3863-3874.	3.3	22
42	A Biomimetic Approach to Lanthionines. Organic Letters, 2012, 14, 334-337.	4.6	21
43	A Double Diastereoselective Michael-Type Addition as an Entry to Conformationally Restricted Tn Antigen Mimics. Journal of Organic Chemistry, 2013, 78, 10968-10977.	3.2	21
44	Chemoselectivity Control in the Reactions of 1,2â€Cyclic Sulfamidates with Amines. Chemistry - A European Journal, 2013, 19, 6831-6839.	3.3	20
45	Design of Î±-<i>S</i>-Neoglycopeptides Derived from MUC1 with a Flexible and Solvent-Exposed Sugar Moiety. Journal of Organic Chemistry, 2016, 81, 5929-5941.	3.2	20
46	Conformational Analysis of 2-Substituted Cyclobutane-Î±-amino Acid Derivatives. A Synergistic Experimental and Computational Study. Journal of Organic Chemistry, 2006, 71, 1869-1878.	3.2	19
47	Ring-Rearrangement Metathesis of 1-Substituted 7-Azanorbornenes as an Entry to 1-Azaspiro[4.5]decane systems. Journal of Organic Chemistry, 2011, 76, 3381-3391.	3.2	19
48	Engineering <i>O</i>â€Glycosylation Points in Nonâ€extended Peptides: Implications for the Molecular Recognition of Short Tumorâ€Associated Glycopeptides. Chemistry - A European Journal, 2011, 17, 3105-3110.	3.3	19
49	Synthesis of enantiopure (Î±Me)Dip and other Î±-methylated Î²-branched amino acid derivatives. Tetrahedron: Asymmetry, 2003, 14, 399-405.	1.8	18
50	Understanding the Unusual Regioselectivity in the Nucleophilic Ring-Opening Reactions of gem-Disubstituted Cyclic Sulfates. Experimental and Theoretical Studies. Journal of Organic Chemistry, 2003, 68, 4506-4513.	3.2	18
51	Reactivity of 2-acylaminoacrylates with ketene diethyl acetal; [2 + 2] cycloadditions vs. tandem condensationsElectronic supplementary information (ESI) available: general procedures. See http://www.rsc.org/suppdata/cc/b3/b302000b/. Chemical Communications, 2003, , 1376.	4.1	18
52	Synthesis of Mixed Î±/Î²^{2,2}-Peptides by Site-Selective Ring-Opening of Cyclic Quaternary Sulfamidates. Organic Letters, 2015, 17, 5804-5807.	4.6	18
53	Incorporation of Ahc into Model Dipeptides as an Inducer of a Î²-Turn with a Distorted Amide Bond. Conformational Analysis. Journal of Organic Chemistry, 2002, 67, 4241-4249.	3.2	17
54	Î±-Methylserinals as an access to Î±-methyl-Î²-hydroxyamino acids: application in the synthesis of all stereoisomers of Î±-methylthreonine. Tetrahedron: Asymmetry, 2004, 15, 719-724.	1.8	17

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55	Cellâ€Penetrating Peptides Containing Fluorescent <scp>d</scp>â€Cysteines. Chemistry - A European Journal, 2018, 24, 7991-8000.	3.3	16
56	Molecular Recognition of Î²â€<i>O</i>â€GlcNAc Glycopeptides by a Lectinâ€Like Receptor: Binding Modulation by the Underlying Ser or Thr Amino Acids. ChemBioChem, 2011, 12, 110-117.	2.6	15
57	Synthesis and Conformational Analysis of Hybrid Î±/Î²â€Dipeptides Incorporating <i>S</i>â€Glycosylâ€Î²^{2,2}â€Amino Acids. Chemistry - A European Journal, 2015, 21, 1156-1168.	3.3	15
58	Stabilizing unusual conformations in small peptides and glucopeptides using a hydroxylated cyclobutane amino acid. Organic and Biomolecular Chemistry, 2009, 7, 2885.	2.8	14
59	Quaternary Chiral Î²^{2,2}â€Amino Acids with Pyridinium and Imidazolium Substituents. Chemistry - A European Journal, 2012, 18, 15822-15830.	3.3	14
60	Addition of organolithium reagents to Ahc methyl ester. An approach to new Î±-amino ketones. Tetrahedron, 2002, 58, 10167-10171.	1.9	13
61	Enantiopure Synthesis of All Four Stereoisomers of Carbapenam-3-carboxylic Acid Methyl Ester. Journal of Organic Chemistry, 2003, 68, 2889-2894.	3.2	13
62	Synthesis of 2-methyl- and 2-methylenecyclobutane amino acids. Tetrahedron, 2005, 61, 4165-4172.	1.9	13
63	Conformational Effects of the Non-natural Î±-Methylserine on Small Peptides and Glycopeptides. Journal of Organic Chemistry, 2009, 74, 9305-9313.	3.2	13
64	Dynamics and Hydration Properties of Small Antifreezeâ€Like Glycopeptides Containing Nonâ€Natural Amino Acids. European Journal of Organic Chemistry, 2010, 2010, 3525-3532.	2.4	13
65	Proton Nuclear Magnetic Resonance Spectroscopy as a Technique for Gentamicin Drug Susceptibility Studies with Escherichia coli ATCC 25922. Journal of Clinical Microbiology, 2015, 53, 2433-2438.	3.9	13
66	Synthesis of <i>N</i>_{Î²}-Substituted Î±,Î²-Diamino Acids via Stereoselective <i>N</i>-Michael Additions to a Chiral Bicyclic Dehydroalanine. Journal of Organic Chemistry, 2020, 85, 3134-3145.	3.2	13
67	Toward Enantiomerically Pure Î²-Seleno-Î±-amino Acids via Stereoselective <i>Se</i>-Michael Additions to Chiral Dehydroalanines. Organic Letters, 2021, 23, 1955-1959.	4.6	13
68	New syntheses of enantiopure 2-methyl isoserines. Tetrahedron: Asymmetry, 2004, 15, 131-137.	1.8	12
69	A Highly Regioselective Ring-Opening Metathesisâˆ'Cross Metathesis Process Modulated by the Electronic Effects of the Cross Metathesis Partner: An Entry to Quaternary Prolines. Journal of Organic Chemistry, 2009, 74, 1736-1739.	3.2	12
70	Ringâ€Rearrangement Metathesis of 7â€AzaÂnorbornenes as an Entry to 1â€Azabicyclo[<i>n</i>.3.0]alkenones. European Journal of Organic Chemistry, 2013, 2013, 3817-3824.	2.4	12
71	Tn Antigen Mimics by Ring-Opening of Chiral Cyclic Sulfamidates with Carbohydrate C1-<i>S</i>- and C1-<i>O</i>-Nucleophiles. Journal of Organic Chemistry, 2018, 83, 4973-4980.	3.2	12
72	Conformational analysis of N-Boc-N,O-isopropylidene-Î±-serinals. A combined DFT and NMR study. Tetrahedron, 2003, 59, 5713-5718.	1.9	10

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73	Î±-Alkylation versus retro-O-Michael/Î³-alkylation of bicyclic N,O-acetals: an entry to Î±-methylthreonine. Tetrahedron: Asymmetry, 2008, 19, 2829-2834.	1.8	10
74	A Domino Michael/Dieckmann Process as an Entry to Î±-(Hydroxymethyl)glutamic Acid. Journal of Organic Chemistry, 2011, 76, 6990-6996.	3.2	10
75	Substituent Effects on the Reactivity of Cyclic Tertiary Sulfamidates. Journal of Organic Chemistry, 2017, 82, 13250-13255.	3.2	10
76	Î²-Turn modulation by the incorporation of c6Ser into Xaa-Pro dipeptide. Tetrahedron Letters, 2002, 43, 1429-1432.	1.4	9
77	Mechanistic study of the ring-size modulation in Michaelâ€"Dieckmann type reactions of 2-acylaminoacrylates with ketene diethyl acetal. New Journal of Chemistry, 2007, 31, 224-229.	2.8	9
78	Synthesis, activity and theoretical study of ABT-418 analogues. Tetrahedron, 2002, 58, 4505-4511.	1.9	8
79	Synthesis of 7-azabicyclo[2.2.1]heptane derivatives via bridgehead radicals. Tetrahedron, 2002, 58, 1193-1197.	1.9	8
80	Diastereoselective synthesis of protected 4-epi-vancosamine from (S)-N-Boc-N,O-isopropylidene-Î±-methylserinal. Tetrahedron: Asymmetry, 2003, 14, 1037-1043.	1.8	8
81	Nuclear magnetic resonance applied to antimicrobial drug susceptibility. Future Microbiology, 2013, 8, 537-547.	2.0	8
82	SN2 vs E2 on Quaternary Centers: An Easy Approach to Chiral Î²2,2-Amino Acids from Cyclic Sulfamidates. Phosphorus, Sulfur and Silicon and the Related Elements, 2005, 180, 1459-1460.	1.6	5
83	Influence of Amino Acid Stereocenters on the Formation of Bicyclic <i>N</i>,<i>O</i>-Acetals. Journal of Organic Chemistry, 2014, 79, 2556-2563.	3.2	5
84	Oxygen by Carbon Replacement at the Glycosidic Linkage Modulates the Sugar Conformation in Tn Antigen Mimics. ACS Omega, 2018, 3, 18142-18152.	3.5	5
85	Solventâ€based strategy improves the direct determination of key parameters in edible fats and oils by 1 H NMR. Journal of the Science of Food and Agriculture, 2020, 100, 1726-1734.	3.5	5
86	Monitoring of the Rioja red wine production process by <scp>¹H</scp>â€‹<scp>NMR</scp> spectroscopy. Journal of the Science of Food and Agriculture, 2022, 102, 3808-3816.	3.5	5
87	Synthesis and conformational analysis of neoglycoconjugates derived from O- and S-glucose. Carbohydrate Research, 2013, 373, 1-8.	2.3	4
88	Selective modification of sulfamidate-containing peptides. Organic and Biomolecular Chemistry, 2020, 18, 6265-6275.	2.8	4
89	Applications of 1H Nuclear Magnetic Resonance Spectroscopy in Clinical Microbiology. , 2016, , .		3
90	Synthesis of 2-amino-1,3-diols incorporating the cyclobutane ring. Tetrahedron, 2008, 64, 9088-9092.	1.9	2

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91	Nuclear Magnetic Resonance (NMR) as a tool for the study of the metabolism of Rickettsia slovaca. Microbes and Infection, 2015, 17, 850-855.	1.9	2
92	Synthesis of Î²^{2,2}-Amino Acids by Stereoselective Alkylation of Isoserine Derivatives Followed by Nucleophilic Ring Opening of Quaternary Sulfamidates. Journal of Organic Chemistry, 2022, 87, 8730-8743.	3.2	2
93	Cyclohexane Ring as a Tool to Select the Presentation of the Carbohydrate Moiety in Glycosyl Amino Acids. Chemistry - A European Journal, 2012, 18, 5096-5104.	3.3	1
94	Addition of Organolithium Reagents to Ahc Methyl Ester. An Approach to New Î±-Amino Ketones.. ChemInform, 2003, 34, no.	0.0	0
95	Selective Michaelâ€"Aldol Reaction by Use of Sterically Hindered Aluminum Aryloxides as Lewis Acids: An Easy Approach to Cyclobutane Amino Acids.. ChemInform, 2005, 36, no.	0.0	0
96	Strategies for the Synthesis of Selenocysteine Derivatives. Synthesis, 0, , .	2.3	0