

# JesÃ³s H Busto

## List of Publications by Year in descending order

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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	Monitoring of the Rioja red wine production process by <sup>1</sup> H- <sup>15</sup> NMR spectroscopy. Journal of the Science of Food and Agriculture, 2022, 102, 3808-3816.	3.5	5
2	Synthesis of <sup>2,2</sup> -Amino Acids by Stereoselective Alkylation of Isoleucine Derivatives Followed by Nucleophilic Ring Opening of Quaternary Sulfamidates. Journal of Organic Chemistry, 2022, 87, 8730-8743.	3.2	2
3	Toward Enantiomerically Pure <sup>2</sup> -Seleno- <sup>1</sup> -amino Acids via Stereoselective <i>Se</i> -Michael Additions to Chiral Dehydroalanines. Organic Letters, 2021, 23, 1955-1959.	4.6	13
4	Solvent-based strategy improves the direct determination of key parameters in edible fats and oils by <sup>1</sup> H NMR. Journal of the Science of Food and Agriculture, 2020, 100, 1726-1734.	3.5	5
5	Synthesis, conformational analysis and <i>in vivo</i> assays of an anti-cancer vaccine that features an unnatural antigen based on an <sup>2</sup> -iminosugar fragment. Chemical Science, 2020, 11, 3996-4006.	7.4	24
6	Selective modification of sulfamidate-containing peptides. Organic and Biomolecular Chemistry, 2020, 18, 6265-6275.	2.8	4
7	Synthesis of <i>N</i> - <sup>2</sup> -Substituted <sup>1,2</sup> -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
8	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
9	Cell-Penetrating Peptides Containing Fluorescent <i>d</i> -Cysteines. Chemistry - A European Journal, 2018, 24, 7991-8000.	3.3	16
10	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
11	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
12	Water Sculpt 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
13	Substituent Effects on the Reactivity of Cyclic Tertiary Sulfamidates. Journal of Organic Chemistry, 2017, 82, 13250-13255.	3.2	10
14	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
15	Applications of <sup>1</sup> H Nuclear Magnetic Resonance Spectroscopy in Clinical Microbiology. , 2016, , .		3
16	Tn Antigen Mimics Based on <sup>2</sup> -Iminosugars with Affinity for an anti-MUC1 Antibody. Organic Letters, 2016, 18, 3890-3893.	4.6	32
17	Design of <sup>1</sup> - <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
18	Bifunctional Chiral Dehydroalanines for Peptide Coupling and Stereoselective <i>S</i> -Michael Addition. Organic Letters, 2016, 18, 2796-2799.	4.6	29

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19	Mucin architecture behind the immune response: design, evaluation and conformational analysis of an antitumor vaccine derived from an unnatural MUC1 fragment. <i>Chemical Science</i> , 2016, 7, 2294-2301.	7.4	35
20	Deciphering the Non-Equivalence of Serine and Threonine Glycosylation Points: Implications for Molecular Recognition of the Tn Antigen by an anti-MUC1 Antibody. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9830-9834.	13.8	65
21	Synthesis of Mixed $\beta$ - $\gamma$ -Peptides by Site-Selective Ring-Opening of Cyclic Quaternary Sulfamidates. <i>Organic Letters</i> , 2015, 17, 5804-5807.	4.6	18
22	Nuclear Magnetic Resonance (NMR) as a tool for the study of the metabolism of <i>Rickettsia slovaca</i> . <i>Microbes and Infection</i> , 2015, 17, 850-855.	1.9	2
23	Detection of Tumor-Associated Glycopeptides by Lectins: The Peptide Context Modulates Carbohydrate Recognition. <i>ACS Chemical Biology</i> , 2015, 10, 747-756.	3.4	39
24	Proton Nuclear Magnetic Resonance Spectroscopy as a Technique for Gentamicin Drug Susceptibility Studies with <i>Escherichia coli</i> ATCC 25922. <i>Journal of Clinical Microbiology</i> , 2015, 53, 2433-2438.	3.9	13
25	Synthesis and Conformational Analysis of Hybrid $\beta$ -Dipeptides Incorporating $\beta$ -Glycosylated $\beta$ -Amino Acids. <i>Chemistry - A European Journal</i> , 2015, 21, 1156-1168.	3.3	15
26	S-Michael Additions to Chiral Dehydroalanines as an Entry to Glycosylated Cysteines and a Sulfa-Tn Antigen Mimic. <i>Journal of the American Chemical Society</i> , 2014, 136, 789-800.	13.7	42
27	Serine versus Threonine Glycosylation with $\beta$ -GalNAc: Unexpected Selectivity in Their Molecular Recognition with Lectins. <i>Chemistry - A European Journal</i> , 2014, 20, 12616-12627.	3.3	36
28	Influence of Amino Acid Stereocenters on the Formation of Bicyclic N-O-Acetals. <i>Journal of Organic Chemistry</i> , 2014, 79, 2556-2563.	3.2	5
29	Synthesis and conformational analysis of neoglycoconjugates derived from O- and S-glucose. <i>Carbohydrate Research</i> , 2013, 373, 1-8.	2.3	4
30	A Double Diastereoselective Michael-Type Addition as an Entry to Conformationally Restricted Tn Antigen Mimics. <i>Journal of Organic Chemistry</i> , 2013, 78, 10968-10977.	3.2	21
31	NMR Study of Histidine Metabolism during Alcoholic and Malolactic Fermentations of Wine and Their Influence on Histamine Production. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 9464-9469.	5.2	25
32	Chemoselectivity Control in the Reactions of 1,2-Cyclic Sulfamidates with Amines. <i>Chemistry - A European Journal</i> , 2013, 19, 6831-6839.	3.3	20
33	Nuclear magnetic resonance applied to antimicrobial drug susceptibility. <i>Future Microbiology</i> , 2013, 8, 537-547.	2.0	8
34	Ring-Rearrangement Metathesis of 7-Azabornenes as an Entry to Azabicyclo[3.0]alkenones. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3817-3824.	2.4	12
35	Quaternary Chiral $\beta$ -Amino Acids with Pyridinium and Imidazolium Substituents. <i>Chemistry - A European Journal</i> , 2012, 18, 15822-15830.	3.3	14
36	A Biomimetic Approach to Lanthionines. <i>Organic Letters</i> , 2012, 14, 334-337.	4.6	21

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37	Investigations of La Rioja Terroir for Wine Production Using <sup>1</sup> H NMR Metabolomics. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 3452-3461.	5.2	121
38	Cyclohexane Ring as a Tool to Select the Presentation of the Carbohydrate Moiety in Glycosyl Amino Acids. <i>Chemistry - A European Journal</i> , 2012, 18, 5096-5104.	3.3	1
39	Rational design of a Tn antigen mimic. <i>Chemical Communications</i> , 2011, 47, 5319.	4.1	24
40	A Domino Michael/Dieckmann Process as an Entry to $\hat{\pm}$ -(Hydroxymethyl)glutamic Acid. <i>Journal of Organic Chemistry</i> , 2011, 76, 6990-6996.	3.2	10
41	Ring-Rearrangement Metathesis of 1-Substituted 7-Azanorbornenes as an Entry to 1-Azaspiro[4.5]decane systems. <i>Journal of Organic Chemistry</i> , 2011, 76, 3381-3391.	3.2	19
42	Stereocontrolled Ring-Opening of a Hindered Sulfamidate with Nitrogen-Containing Aromatic Heterocycles: Synthesis of Chiral Quaternary Imidazole Derivatives. <i>Journal of Organic Chemistry</i> , 2011, 76, 4034-4042.	3.2	25
43	Engineering <sup>1</sup> O- $\hat{\pm}$ Glycosylation Points in Non-extended Peptides: Implications for the Molecular Recognition of Short Tumor-Associated Glycopeptides. <i>Chemistry - A European Journal</i> , 2011, 17, 3105-3110.	3.3	19
44	Molecular Recognition of $\hat{\pm}$ -GlcNAc Glycopeptides by a Lectin-Like Receptor: Binding Modulation by the Underlying Ser or Thr Amino Acids. <i>ChemBioChem</i> , 2011, 12, 110-117.	2.6	15
45	Cyclobutane Amino Acid Analogues of Furanomycin Obtained by a Formal [2 + 2] Cycloaddition Strategy Promoted by Methylaluminoxane. <i>Journal of Organic Chemistry</i> , 2010, 75, 545-552.	3.2	27
46	Dynamics and Hydration Properties of Small Antifreeze-Like Glycopeptides Containing Non-Natural Amino Acids. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3525-3532.	2.4	13
47	Evidence of Metabolic Transformations of Amino Acids into Higher Alcohols through <sup>13</sup> C NMR Studies of Wine Alcoholic Fermentation. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 4923-4927.	5.2	25
48	The Nature and Sequence of the Amino Acid Aglycone Strongly Modulates the Conformation and Dynamics Effects of Tn Antigen's Clusters. <i>Chemistry - A European Journal</i> , 2009, 15, 3863-3874.	3.3	22
49	A Novel Multistep Mechanism for the Stereocontrolled Ring Opening of Hindered Sulfamidates: Mild, Green, and Efficient Reactivity with Alcohols. <i>Chemistry - A European Journal</i> , 2009, 15, 9810-9823.	3.3	23
50	Insights into the Geometrical Features Underlying $\hat{\pm}$ -GlcNAc Glycosylation: Water Pockets Drastically Modulate the Interactions between the Carbohydrate and the Peptide Backbone. <i>Chemistry - A European Journal</i> , 2009, 15, 7297-7301.	3.3	29
51	A Highly Regioselective Ring-Opening Metathesis-Cross Metathesis Process Modulated by the Electronic Effects of the Cross Metathesis Partner: An Entry to Quaternary Prolines. <i>Journal of Organic Chemistry</i> , 2009, 74, 1736-1739.	3.2	12
52	Conformational Effects of the Non-natural $\hat{\pm}$ -Methylserine on Small Peptides and Glycopeptides. <i>Journal of Organic Chemistry</i> , 2009, 74, 9305-9313.	3.2	13
53	A Thorough Study on the Use of Quantitative <sup>1</sup> H NMR in Rioja Red Wine Fermentation Processes. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 2112-2118.	5.2	73
54	Stabilizing unusual conformations in small peptides and glucopeptides using a hydroxylated cyclobutane amino acid. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2885.	2.8	14

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55	Highly chemoselective reactions on hindered sulfamidates with oxygenated nucleophiles. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 443-449.	1.8	22
56	Non-natural Amino Acids as Modulating Agents of the Conformational Space of Model Glycopeptides. <i>Chemistry - A European Journal</i> , 2008, 14, 7042-7058.	3.3	24
57	Synthesis of 2-amino-1,3-diols incorporating the cyclobutane ring. <i>Tetrahedron</i> , 2008, 64, 9088-9092.	1.9	2
58	$\hat{1}\pm$ -Alkylation versus retro-O-Michael/ $\hat{1}^3$ -alkylation of bicyclic N,O-acetals: an entry to $\hat{1}\pm$ -methylthreonine. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2829-2834.	1.8	10
59	Role of the Countercation in Diastereoselective Alkylations of Pyramidalized Bicyclic Serine Enolates. An Easy Approach to $\hat{1}\pm$ -Benzylserine. <i>Journal of Organic Chemistry</i> , 2007, 72, 5399-5402.	3.2	28
60	Serine versus Threonine Glycosylation: The Methyl Group Causes a Drastic Alteration on the Carbohydrate Orientation and on the Surrounding Water Shell. <i>Journal of the American Chemical Society</i> , 2007, 129, 9458-9467.	13.7	127
61	Theoretical Evidence for Pyramidalized Bicyclic Serine Enolates in Highly Diastereoselective Alkylations. <i>Chemistry - A European Journal</i> , 2007, 13, 4840-4848.	3.3	36
62	Mechanistic study of the ring-size modulation in Michael-Dieckmann type reactions of 2-acylaminoacrylates with ketene diethyl acetal. <i>New Journal of Chemistry</i> , 2007, 31, 224-229.	2.8	9
63	Time Course of the Evolution of Malic and Lactic Acids in the Alcoholic and Malolactic Fermentation of Grape Must by Quantitative $^1\text{H}$ NMR (qHNMR) Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 4715-4720.	5.2	47
64	Conformational Analysis of 2-Substituted Cyclobutane- $\hat{1}\pm$ -amino Acid Derivatives. A Synergistic Experimental and Computational Study. <i>Journal of Organic Chemistry</i> , 2006, 71, 1869-1878.	3.2	19
65	New Insights into $\hat{1}\pm$ -GalNAc $\hat{1}$ -Ser Motif: Influence of Hydrogen Bonding versus Solvent Interactions on the Preferred Conformation. <i>Journal of the American Chemical Society</i> , 2006, 128, 14640-14648.	13.7	78
66	$\text{S}_{\text{N}}2$ Reaction of Sulfur Nucleophiles with Hindered Sulfamidates: $\hat{1}$ Enantioselective Synthesis of $\hat{1}\pm$ -Methylisocysteine. <i>Journal of Organic Chemistry</i> , 2006, 71, 1692-1695.	3.2	32
67	Stereoselective Synthesis of Orthogonally Protected $\hat{1}\pm$ -Methylnorlanthionine. <i>Organic Letters</i> , 2006, 8, 2855-2858.	4.6	38
68	Effect of $\hat{1}^2$ -O-Glycosylation on L-Ser and L-Thr Diamides: A Bias toward $\hat{1}\pm$ -Helical Conformations. <i>Chemistry - A European Journal</i> , 2006, 12, 7864-7871.	3.3	36
69	Synthesis of 2-methyl- and 2-methylenecyclobutane amino acids. <i>Tetrahedron</i> , 2005, 61, 4165-4172.	1.9	13
70	Synthesis of Cyclobutane Serine Analogues. <i>Journal of Organic Chemistry</i> , 2005, 70, 330-333.	3.2	29
71	Selective Michael-Aldol Reaction by Use of Sterically Hindered Aluminum Aryloxides as Lewis Acids: An Easy Approach to Cyclobutane Amino Acids. <i>ChemInform</i> , 2005, 36, no.	0.0	0
72	$\text{S}_{\text{N}}2$ vs $\text{E}2$ on Quaternary Centers: An Easy Approach to Chiral $\hat{1}^2,2$ -Amino Acids from Cyclic Sulfamidates. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005, 180, 1459-1460.	1.6	5

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73	A Convenient Enantioselective Synthesis of (S)- $\beta$ -Trifluoromethylisoserine. <i>Journal of Organic Chemistry</i> , 2005, 70, 5721-5724.	3.2	28
74	Selective Michael $\beta$ -Aldol Reaction by Use of Sterically Hindered Aluminum Aryloxides as Lewis Acids: An Easy Approach to Cyclobutane Amino Acids. <i>Organic Letters</i> , 2005, 7, 3597-3600.	4.6	51
75	$\beta$ -Methylserinals as an access to $\beta$ -methyl- $\beta$ -hydroxyamino acids: application in the synthesis of all stereoisomers of $\beta$ -methylthreonine. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 719-724.	1.8	17
76	New syntheses of enantiopure 2-methyl isoserines. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 131-137.	1.8	12
77	SN <sub>2</sub> vs. E <sub>2</sub> on quaternary centres: an application to the synthesis of enantiopure $\beta$ -2,2-amino acids. <i>Chemical Communications</i> , 2004, , 980-981.	4.1	47
78	Addition of Organolithium Reagents to AHC Methyl Ester. An Approach to New $\beta$ -Amino Ketones.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
79	Conformational analysis of N-Boc-N,O-isopropylidene- $\beta$ -serinals. A combined DFT and NMR study. <i>Tetrahedron</i> , 2003, 59, 5713-5718.	1.9	10
80	Synthesis of enantiopure ( $\beta$ -Me)Dip and other $\beta$ -methylated $\beta$ -branched amino acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 399-405.	1.8	18
81	Diastereoselective synthesis of protected 4-epi-vancosamine from (S)-N-Boc-N,O-isopropylidene- $\beta$ -methylserinal. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 1037-1043.	1.8	8
82	Enantiopure Synthesis of All Four Stereoisomers of Carbapenam-3-carboxylic Acid Methyl Ester. <i>Journal of Organic Chemistry</i> , 2003, 68, 2889-2894.	3.2	13
83	Understanding the Unusual Regioselectivity in the Nucleophilic Ring-Opening Reactions of gem-Disubstituted Cyclic Sulfates. Experimental and Theoretical Studies. <i>Journal of Organic Chemistry</i> , 2003, 68, 4506-4513.	3.2	18
84	Reactivity of 2-acylaminoacrylates with ketene diethyl acetal; [2 + 2] cycloadditions vs. tandem condensations Electronic supplementary information (ESI) available: general procedures. See <a href="http://www.rsc.org/suppdata/cc/b3/b302000b/">http://www.rsc.org/suppdata/cc/b3/b302000b/</a> . <i>Chemical Communications</i> , 2003, , 1376.	4.1	18
85	Incorporation of AHC into Model Dipeptides as an Inducer of a $\beta$ -Turn with a Distorted Amide Bond. Conformational Analysis. <i>Journal of Organic Chemistry</i> , 2002, 67, 4241-4249.	3.2	17
86	Asymmetric Hetero Diels $\beta$ -Alder as an Access to Carbacephams. <i>Journal of Organic Chemistry</i> , 2002, 67, 598-601.	3.2	28
87	Synthesis of enantiopure analogues of 3-hydroxyproline and derivatives. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 625-632.	1.8	22
88	Synthesis, activity and theoretical study of ABT-418 analogues. <i>Tetrahedron</i> , 2002, 58, 4505-4511.	1.9	8
89	Addition of organolithium reagents to AHC methyl ester. An approach to new $\beta$ -amino ketones. <i>Tetrahedron</i> , 2002, 58, 10167-10171.	1.9	13
90	$\beta$ -Turn modulation by the incorporation of c6Ser into Xaa-Pro dipeptide. <i>Tetrahedron Letters</i> , 2002, 43, 1429-1432.	1.4	9

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91	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
92	Synthesis of 7-azabicyclo[2.2.1]heptane derivatives via bridgehead radicals. Tetrahedron, 2002, 58, 1193-1197.	1.9	8
93	New synthesis of 7-azabicyclo[2.2.1]heptane-1-carboxylic acid. Tetrahedron, 2001, 57, 545-548.	1.9	38
94	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
95	A new efficient synthesis of 2-phenyl-4-oxo-1-amino-cyclohexanecarboxylic acids. Tetrahedron, 1994, 50, 12989-12998.	1.9	24
96	Strategies for the Synthesis of Selenocysteine Derivatives. Synthesis, 0, , .	2.3	0