

# Jose Manuel Otero Casas

## List of Publications by Year in descending order

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docs citations

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times ranked

1528  
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#	ARTICLE	IF	CITATIONS
1	Highly functionalized cyclic and bicyclic $\alpha$ -amino acids from sugar $\alpha$ -nitroesters. <i>Tetrahedron</i> , 2020, 76, 130837.	1.9	0
2	Hydroxylammonium derivatives for selective active-site lysine modification in the anti-virulence bacterial target DHQ1 enzyme. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3127-3135.	4.5	4
3	Adsorption of Pharmaceutical Pollutants from Water Using Covalent Organic Frameworks. <i>Chemistry - A European Journal</i> , 2018, 24, 10601-10605.	3.3	106
4	6-Deoxyhexoses from <i>R</i> -Rhamnose in the Search for Inducers of the Rhamnose Operon: Synergy of Chemistry and Biotechnology. <i>Chemistry - A European Journal</i> , 2016, 22, 12557-12565.	3.3	8
5	Synthetic Chemical Inducers and Genetic Decoupling Enable Orthogonal Control of the <i>rhaBAD</i> Promoter. <i>ACS Synthetic Biology</i> , 2016, 5, 1136-1145.	3.8	47
6	Structure of the Receptor-Binding Carboxy-Terminal Domain of the Bacteriophage T5 L-Shaped Tail Fibre with and without Its Intra-Molecular Chaperone. <i>Viruses</i> , 2015, 7, 6424-6440.	3.3	46
7	Chemical Modification of a Dehydratase Enzyme Involved in Bacterial Virulence by an Ammonium Derivative: Evidence of its Active Site Covalent Adduct. <i>Journal of the American Chemical Society</i> , 2015, 137, 9333-9343.	13.7	12
8	Irreversible covalent modification of type I dehydroquinase with a stable Schiff base. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 706-716.	2.8	8
9	Exploring the Water-Binding Pocket of the Type II Dehydroquinase Enzyme in the Structure-Based Design of Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 3494-3510.	6.4	8
10	Insights into substrate binding and catalysis in bacterial type I dehydroquinase. <i>Biochemical Journal</i> , 2014, 462, 415-424.	3.7	8
11	Mycobacterium tuberculosis Shikimate Kinase Inhibitors: Design and Simulation Studies of the Catalytic Turnover. <i>Journal of the American Chemical Society</i> , 2013, 135, 12366-12376.	13.7	51
12	Inhibiting and Reversing Amyloid $\beta$ Peptide (1-40) Fibril Formation with Gramicidin S and Engineered Analogues. <i>Chemistry - A European Journal</i> , 2013, 19, 17338-17348.	3.3	39
13	Mechanistic Basis of the Inhibition of Type II Dehydroquinase by (2 <i>S</i> )- and (2 <i>R</i> )-2-Benzyl-3-dehydroquinic Acids. <i>ACS Chemical Biology</i> , 2013, 8, 568-577.	3.4	11
14	Design, Synthesis, and Structural Analysis of Turn Modified $\alpha$ -cyclo-(1 <sup>3</sup> )- $\beta$ -peptide Derivatives toward Crystalline Hexagon-Shaped Cationic Nanochannel Assemblies. <i>Crystal Growth and Design</i> , 2013, 13, 4355-4367.	3.0	6
15	An overview of key routes for the transformation of sugars into carbasugars and related compounds. <i>Carbohydrate Chemistry</i> , 2012, , 263-302.	0.3	13
16	High-resolution structures of <i>Thermus thermophilus</i> enoyl-acyl carrier protein reductase in the apo form, in complex with NAD <sup>+</sup> and in complex with NAD <sup>+</sup> and triclosan. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1139-1148.	0.7	7
17	$\beta$ -Inverted analogs of the antibiotic gramicidin S with an improved biological profile. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6059-6062.	3.0	8
18	A Nitro Sugar-Mediated Stereocontrolled Synthesis of $\alpha$ -Amino Acids: Synthesis of a Polyhydroxylated <i>trans</i> - $\alpha$ -Amino Cyclohexanecarboxylic Acid. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 2969-2979.	2.4	3

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19	Studies on the Michael addition of naphthoquinones to sugar nitro olefins: first synthesis of polyhydroxylated hexahydro-11H-benzo[a]carbazole-5,6-diones and hexahydro-11bH-benzo[b]carbazole-6,11-diones. <i>Tetrahedron</i> , 2012, 68, 1612-1621.	1.9	15
20	Design, synthesis and structural analysis of mixed $\hat{1}/\hat{2}$ -peptides that adopt stable cyclic hairpin-like conformations. <i>Tetrahedron</i> , 2012, 68, 2391-2400.	1.9	12
21	On a Possible Neutral Charge State for the Catalytic Dyad in $\hat{1}$ -Secretase When Bound to Hydroxyethylene Transition State Analogue Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 3081-3085.	6.4	13
22	A Prodrug Approach for Improving Antituberculosis Activity of Potent Mycobacterium tuberculosis Type II Dehydroquinase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 6063-6084.	6.4	32
23	Target highlights in CASP9: Experimental target structures for the critical assessment of techniques for protein structure prediction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 6-20.	2.6	19
24	Tetrahydrobenzothiophene Derivatives: Conformationally Restricted Inhibitors of Type II Dehydroquinase. <i>ChemMedChem</i> , 2011, 6, 266-272.	3.2	15
25	Evaluation of Readily Accessible Azoles as Mimics of the Aromatic Ring of D-Phenylalanine in the Turn Region of Gramicidin S. <i>ChemMedChem</i> , 2011, 6, 840-847.	3.2	17
26	Exploring the Conformational and Biological Versatility of Turn-Modified Gramicidin S by Using Sugar Amino Acid Homologues that Vary in Ring Size. <i>Chemistry - A European Journal</i> , 2011, 17, 3995-4004.	3.3	33
27	Synthesis and evaluation of strand and turn modified ring-extended gramicidin S derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 3402-3409.	3.0	9
28	Understanding the Key Factors that Control the Inhibition of Type II Dehydroquinase by (2 <i>R</i> ,3 <i>R</i> )-2-Benzyl-3-dehydroquinic Acids. <i>ChemMedChem</i> , 2010, 5, 1726-1733.	3.2	22
29	Gramicidin S Derivatives Containing <i>cis</i> - and <i>trans</i> -Morpholine Amino Acids (MAAs) as Turn Mimetics. <i>Chemistry - A European Journal</i> , 2010, 16, 4259-4265.	3.3	15
30	An Adamantyl Amino Acid Containing Gramicidin S Analogue with Broad Spectrum Antibacterial Activity and Reduced Hemolytic Activity. <i>Chemistry - A European Journal</i> , 2010, 16, 12174-12181.	3.3	33
31	Studies on the transformation of nitrosugars into iminosugars III: synthesis of (2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i> ,6 <i>R</i> )-2-(hydroxymethyl)azepane-3,4,5,6-tetraol and (2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i> ,6 <i>S</i> )-2-(hydroxymethyl)azepane-3,4,5,6-tetraol. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 21-26.	1.8	17
32	Effect of the Protonation State of the Titratable Residues on the Inhibitor Affinity to BACE-1. <i>Biochemistry</i> , 2010, 49, 7255-7263.	2.5	51
33	Structure of the bacteriophage T4 long tail fiber receptor-binding tip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20287-20292.	7.1	159
34	Synthesis and Biological Evaluation of New Nanomolar Competitive Inhibitors of Helicobacter pylori Type II Dehydroquinase. Structural Details of the Role of the Aromatic Moieties with Essential Residues. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 191-200.	6.4	21
35	Bisphosphine-Functionalized Cyclic Decapeptides Based on the Natural Product Gramicidin S: A Potential Scaffold for Transition-Metal Coordination. <i>Chemistry - A European Journal</i> , 2009, 15, 8134-8145.	3.3	17
36	Synthesis and biological evaluation of asymmetric gramicidin S analogues containing modified d-phenylalanine residues. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6318-6328.	3.0	14

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37	Studies on the transformation of nitrosugars into branched chain iminosugars. Part II: Synthesis of (3R,4R,5R,6S)-2,2-bis(hydroxymethyl)azepane-3,4,5,6-tetraol. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 2443-2446.	1.8	22
38	Preliminary Studies on the Michael Addition of Quinones to Nitroolefins: (6bR,10aS)-7,8,9,10,10a,11-Hexahydro-6bH-benzo[a]carbazole-5,6-diones, (4aR,11bS)-1,2,3,4,4a,5-Hexahydro-11bH-benzo[b]carbazole-6,11-diones, and 1,2,3,4-Tetrahydro-5H-benzo[b]carbazole-6,11-diones. <i>Synlett</i> , 2007, 2007, 1399-1402.	1.8	1
39	Preliminary Studies on the Transformation of Nitrosugars into Branched Chain Iminosugars: Synthesis of 1,4-Dideoxy-4-C-hydroxymethyl- 1,4-imino-pentanols. <i>Organic Letters</i> , 2007, 9, 623-626.	4.6	25
40	Total synthesis of (5S,6S)-6-amino-2,8-dimethylnonan-5-ol and (5S,6S)-6-amino-7-cyclohexyl-2-methylheptan-5-ol. <i>Arkivoc</i> , 2007, 2007, 380-388.	0.5	0
41	Preliminary studies on a novel synthesis of $\beta^2$ -amino acids: stereocontrolled transformation of d- and l-glyceraldehyde into 3-amino-2-(2-dimethyl-1,3-dioxolan-4-yl)propanoic acids. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 3063-3066.	1.8	9
42	Preliminary studies on the incorporation of sugars into naphthoquinones: synthesis of (1R,2S,3S,4R,4aS,11bS)-2-(benzyloxy)-1,2,3,4,4a,5-hexahydro-1,3,4-trihydroxy-11bH-benzo[b]carbazole-6,11-dione. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 11-14.	1.8	11
43	Preliminary studies on the synthesis of rancinamycins from nitrosugars: first total synthesis of (3S,4S,5S,6R)-5-benzyloxy-6-hydroxy-3,4-(isopropylidendioxy)-cyclohex-1-enecarbaldehyde. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 4045-4049.	1.8	11