JosÃ© LuÃ- s Abad

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Inhibitors of sphingolipid metabolism enzymes. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1957-1977.	2.6	156
2	Control of metabolism and signaling of simple bioactive sphingolipids: Implications in disease. Progress in Lipid Research, 2010, 49, 316-334.	11.6	124
3	Dihydroceramide accumulation mediates cytotoxic autophagy of cancer cells via autolysosome destabilization. Autophagy, 2016, 12, 2213-2229.	9.1	118
4	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for Inâ€…Vivo Imaging of Cell Metabolism. Angewandte Chemie - International Edition, 2019, 58, 6911-6915.	13.8	100
5	Detection of DNA Adducts Derived from the Reactive Metabolite of Furan, cis-2-Butene-1,4-dial. Chemical Research in Toxicology, 2006, 19, 414-420.	3.3	87
6	Dihydrosphingomyelin Impairs HIV-1 Infection by Rigidifying Liquid-Ordered Membrane Domains. Chemistry and Biology, 2010, 17, 766-775.	6.0	76
7	Investigating the formation and toxicity of nitrogen transformation products of diclofenac and sulfamethoxazole in wastewater treatment plants. Journal of Hazardous Materials, 2016, 309, 157-164.	12.4	72
8	The anti-cancer drug ABTL0812 induces ER stress-mediated cytotoxic autophagy by increasing dihydroceramide levels in cancer cells. Autophagy, 2021, 17, 1349-1366.	9.1	72
9	C6-Ceramide and targeted inhibition of acid ceramidase induce synergistic decreases in breast cancer cell growth. Breast Cancer Research and Treatment, 2012, 133, 447-458.	2.5	69
10	Dihydroceramide delays cell cycle G1/S transition via activation of ER stress and induction of autophagy. International Journal of Biochemistry and Cell Biology, 2012, 44, 2135-2143.	2.8	66
11	Acid ceramidase as a therapeutic target in metastatic prostate cancer. Journal of Lipid Research, 2013, 54, 1207-1220.	4.2	61
12	Simultaneous determination of diclofenac, its human metabolites and microbial nitration/nitrosation transformation products in wastewaters by liquid chromatography/quadrupole-linear ion trap mass spectrometry. Journal of Chromatography A, 2014, 1347, 63-71.	3.7	59
13	Sex pheromone biosynthetic pathway for disparlure in the gypsy moth, Lymantria dispar. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 809-814.	7.1	53
14	A simple fluorogenic method for determination of acid ceramidase activity and diagnosis of Farber disease. Journal of Lipid Research, 2010, 51, 3542-3547.	4.2	53
15	Is Hydrogen Tunneling Involved in AcylCoA Desaturase Reactions? The Case of a Î”9 Desaturase That Transforms (E)-11-Tetradecenoic Acid into (Z,E)-9,11-Tetradecadienoic Acid. Angewandte Chemie - International Edition, 2000, 39, 3279-3281.	13.8	51
16	Chemical Tools to Investigate Sphingolipid Metabolism and Functions. ChemMedChem, 2007, 2, 580-606.	3.2	50
17	Cellular Changes that Accompany Shedding of Human Corneocytes. Journal of Investigative Dermatology, 2012, 132, 2430-2439.	0.7	48
18	A multifunctional desaturase involved in the biosynthesis of the processionary moth sex pheromone. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16444-16449.	7.1	46

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19	Straightforward Access to Spisulosine and 4,5-Dehydrospisulosine Stereoisomers: Probes for Profiling Ceramide Synthase Activities in Intact Cells. Journal of Organic Chemistry, 2013, 78, 5858-5866.	3.2	43
20	Unequivocal Identification of Compounds Formed in the Photodegradation of Fenitrothion in Water/Methanol and Proposal of Selected Transformation Pathways. Journal of Agricultural and Food Chemistry, 1994, 42, 814-821.	5.2	38
21	Inhibitors of sphingosine-1-phosphate metabolism (sphingosine kinases and sphingosine-1-phosphate) Tj ETQq1 1 0.784314 rgBT /Overl	3.2	34
22	Synthesis of a Fluorogenic Analogue of Sphingosineâ€1â€Phosphate and Its Use to Determine Sphingosineâ€1â€Phosphate Lyase Activity. ChemBioChem, 2009, 10, 820-822.	2.6	30
23	15N-Multilabeled Adenine and Guanine Nucleosides. Syntheses of [1,3,NH2-15N3]- and [2-13C-1,3,NH2-15N3]-Labeled Adenosine, Guanosine, 2â€˜-Deoxyadenosine, and 2â€˜-Deoxyguanosine. Journal of Organic Chemistry, 1999, 64, 6575-6582.	3.2	27
24	Azideâ€Tagged Sphingolipids: New Tools for Metabolic Flux Analysis. ChemBioChem, 2015, 16, 641-650.	2.6	24
25	Ceramide Analogue SACLAC Modulates Sphingolipid Levels and <i>MCL-1</i> Splicing to Induce Apoptosis in Acute Myeloid Leukemia. Molecular Cancer Research, 2020, 18, 352-363.	3.4	22
26	Sphingolipid Modulation: A Strategy for Cancer Therapy. Anti-Cancer Agents in Medicinal Chemistry, 2012, 12, 285-302.	1.7	22
27	Synthesis of Dideuterated and Enantiomers of Monodeuterated Tridecanoic Acids at C-9 and C-10 Positions. Journal of Organic Chemistry, 2000, 65, 8582-8588.	3.2	21
28	Substrate-Dependent Stereochemical Course of the (Z)-13-Desaturation Catalyzed by the Processionary Moth Multifunctional Desaturase. Journal of the American Chemical Society, 2007, 129, 15007-15012.	13.7	20
29	Natural Products as Platforms for the Design of Sphingolipid-Related Anticancer Agents. Advances in Cancer Research, 2013, 117, 237-281.	5.0	20
30	Active Site Contacts in the Purine Nucleoside Phosphorylaseâˆ'Hypoxanthine Complex by NMR andab InitioCalculationsâ€. Biochemistry, 2004, 43, 15966-15974.	2.5	19
31	Identification of phototransformation products of sildenafil (Viagra) and its Nâ€demethylated human metabolite under simulated sunlight. Journal of Mass Spectrometry, 2012, 47, 701-711.	1.6	19
32	Synthesis and Use of Stereospecifically Deuterated Analogues of Palmitic Acid To Investigate the Stereochemical Course of the Î”11 Desaturase of the Processionary Moth. Journal of Organic Chemistry, 2004, 69, 7108-7113.	3.2	18
33	Jaspine B induces nonapoptotic cell death in gastric cancer cells independently of its inhibition of ceramide synthase. Journal of Lipid Research, 2017, 58, 1500-1513.	4.2	18
34	Inhibitors of ceramide de novo biosynthesis rescue damages induced by cigarette smoke in airways epithelia. Naunyn-Schmiedeberg's Archives of Pharmacology, 2017, 390, 753-759.	3.0	17
35	Activity-Based Imaging of Acid Ceramidase in Living Cells. Journal of the American Chemical Society, 2019, 141, 7736-7742.	13.7	17
36	2,3:18,19-dioxidosqualene: synthesis and activity as a potent inhibitor of 2,3-oxidosqualene-lanosterol cyclase in rat liver microsomes. Bioorganic and Medicinal Chemistry Letters, 1992, 2, 1239-1242.	2.2	15

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37	Dioxidosqualenes: characterization and activity as inhibitors of 2,3-oxidosqualene-lanosterol cyclase. Journal of Organic Chemistry, 1993, 58, 3991-3997.	3.2	15
38	Stereospecificity of the (Z)-9 desaturase that converts (E)-11-tetradecenoic acid into (Z,E)-9,11-tetradecadienoic acid in the biosynthesis of Spodoptera littoralis sex pheromone. Insect Biochemistry and Molecular Biology, 2001, 31, 799-803.	2.7	15
39	Abiotic amidine and guanidine hydrolysis of lamotrigine-N2-glucuronide and related compounds in wastewater: The role of pH and N2-substitution on reaction kinetics. Water Research, 2016, 100, 466-475.	11.3	14
40	Dihydroceramide Desaturase 1 Inhibitors Reduce Amyloid-Î² Levels in Primary Neurons from an Alzheimerâ€™s Disease Transgenic Model. Pharmaceutical Research, 2018, 35, 49.	3.5	14
41	High yield protection of purine ribonucleosides for H-phosphonate RNA synthesis. Tetrahedron Letters, 1997, 38, 7135-7138.	1.4	13
42	Activity of neutral and alkaline ceramidases on fluorogenic N-acylated coumarin-containing aminodiols. Journal of Lipid Research, 2015, 56, 2019-2028.	4.2	13
43	Internal Oxidosqualenes: Determination of Absolute Configuration and Activity as Inhibitors of Purified Pig Liver Squalene Epoxidase. Journal of Organic Chemistry, 1995, 60, 3648-3656.	3.2	12
44	Ceramidases in Hematological Malignancies: Senseless or Neglected Target?. Anti-Cancer Agents in Medicinal Chemistry, 2011, 11, 830-843.	1.7	12
45	3-Ketosphinganine provokes the accumulation of dihydroshingolipids and induces autophagy in cancer cells. Molecular BioSystems, 2016, 12, 1166-1173.	2.9	12
46	The first fluorogenic sensor for sphingosine-1-phosphate lyase activity in intact cells. Chemical Communications, 2017, 53, 5441-5444.	4.1	12
47	3-Deoxy-3,4-dehydro analogs of XM462. Preparation and activity on sphingolipid metabolism and cell fate. Bioorganic and Medicinal Chemistry, 2012, 20, 3173-3179.	3.0	11
48	Analysis of the neurotoxic effects of neuropathic organophosphorus compounds in adult zebrafish. Scientific Reports, 2018, 8, 4844.	3.3	11
49	Novel Chemoenzymatic Strategy for the Synthesis of Enantiomerically Pure Secondary Alcohols with Sterically Similar Substituents. Journal of Organic Chemistry, 2003, 68, 5351-5356.	3.2	10
50	Structure elucidation of phototransformation products of unapproved analogs of the erectile dysfunction drug sildenafil in artificial freshwater with UPLCâ€Q Exactiveâ€MS. Journal of Mass Spectrometry, 2014, 49, 1279-1289.	1.6	10
51	Synthesis of deuterated fatty acids to investigate the biosynthetic pathway of disparlure, the sex pheromone of the Gypsy Moth, Lymantria dispar. Lipids, 2004, 39, 397-401.	1.7	9
52	Click and count: specific detection of acid ceramidase activity in live cells. Chemical Science, 2020, 11, 13044-13051.	7.4	9
53	Discovery of deoxyceramide analogs as highly selective ACER3 inhibitors in live cells. European Journal of Medicinal Chemistry, 2021, 216, 113296.	5.5	9
54	2,3,18,19-Dioxidosqualene Stereoisomers:Â Characterization and Activity as Inhibitors of Purified Pig Liver 2,3-Oxidosqualeneâˆ'Lanosterol Cyclase. Journal of Organic Chemistry, 1996, 61, 7603-7607.	3.2	8

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55	In situ synthesis of fluorescent membrane lipids (ceramides) using click chemistry. Journal of Chemical Biology, 2012, 5, 119-123.	2.2	8
56	Fluorescent Polyene Ceramide Analogues as Membrane Probes. Langmuir, 2015, 31, 2484-2492.	3.5	8
57	A straightforward synthesis of the CERT inhibitor (1â€²R,3â€²S)-HPA-12. Tetrahedron Letters, 2015, 56, 1706-1708.	1.4	8
58	Synthesis of fluorinated analogs of myristic acid as potential inhibitors of egyptian armyworm (Spodoptera littorialis) Î”11 desaturasedesaturase. Lipids, 2003, 38, 865-871.	1.7	7
59	From the configurational preference of dihydroceramide desaturase-1 towards Î”⁶-unsaturated substrates to the discovery of a new inhibitor. Chemical Communications, 2017, 53, 4394-4397.	4.1	7
60	Azide-tagged sphingolipids for the proteome-wide identification of C16-ceramide-binding proteins. Chemical Communications, 2018, 54, 13742-13745.	4.1	7
61	Synthesis and Use of Probes to Investigate the Cryptoregiochemistry of the First Animal Acetylenase. Journal of Organic Chemistry, 2006, 71, 7558-7564.	3.2	6
62	Clearly Detectable, Kinetically Restricted Solidâ€"Solid Phase Transition in cis-Ceramide Monolayers. Langmuir, 2018, 34, 11749-11758.	3.5	6
63	Use of13C tags with specifically15N-labeled DNA and RNA. Biopolymers, 1998, 48, 57-63.	2.4	5
64	New fluorogenic probes for neutral and alkaline ceramidases. Journal of Lipid Research, 2019, 60, 1174-1181.	4.2	5
65	A Mechanism-Based Sphingosine-1-phosphate Lyase Inhibitor. Journal of Organic Chemistry, 2020, 85, 419-429.	3.2	5
66	Epoxidation of 6,7- and 10,11-oxidosqualenes by the squalene epoxidase present in rat liver microsomes. Bioorganic and Medicinal Chemistry Letters, 1993, 3, 2581-2586.	2.2	4
67	Synthesis and Use of Deuterated Palmitic Acids to Decipher the Cryptoregiochemistry of a Î”13Desaturation. Journal of Organic Chemistry, 2007, 72, 760-764.	3.2	4
68	Rotational spectra of tetracyclic quinolizidine alkaloids: does a water molecule flip sparteine?. Physical Chemistry Chemical Physics, 2017, 19, 17553-17559.	2.8	4
69	Synthesis and characterization of bichromophoric 1-deoxyceramides as FRET probes. Organic and Biomolecular Chemistry, 2021, 19, 2456-2467.	2.8	4
70	Methuosis Contributes to Jaspine-B-Induced Cell Death. International Journal of Molecular Sciences, 2022, 23, 7257.	4.1	4
71	Bacterial versus human sphingosine-1-phosphate lyase (S1PL) in the design of potential S1PL inhibitors. Bioorganic and Medicinal Chemistry, 2016, 24, 4381-4389.	3.0	3
72	Arylacetic acid derivatization of 2,3- and internal erythro-squalene diols. Separation and absolute configuration determination. Tetrahedron, 2004, 60, 11519-11525.	1.9	2

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73	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.	5.5	2
74	Approaches to polyunsaturated sphingolipids: new conformationally restrained analogs with minimal structural modifications. Tetrahedron, 2016, 72, 605-612.	1.9	2
75	An Unexpected Access to a New Sphingoid Base Containing a Vinyl Sulfide Unit. Synlett, 2010, 2010, 2950-2952.	1.8	1
76	Chemical Probes of Sphingolipid Metabolizing Enzymes. , 2015, , 437-469.		1
77	Chirality-Puckering correlation and intermolecular interactions in Sphingosines: Rotational spectroscopy of jaspine B3 and its monohydrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 267, 120531.	3.9	1
78	In Situ Synthesis of Fluorescent Membrane Lipids (Ceramides) using Click Chemistry. Biophysical Journal, 2013, 104, 373a.	0.5	0
79	Stereoselective preparation of quaternary 2-vinyl sphingosines and ceramides and their effect on basal sphingolipid metabolism. Chemistry and Physics of Lipids, 2017, 205, 34-41.	3.2	0
80	Rotational spectroscopy of organophosphorous chemical agents: cresyl and phenyl saligenin phosphates. Physical Chemistry Chemical Physics, 2019, 21, 16418-16422.	2.8	0