

Jos Lus Abad

List of Publications by Citations

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77
papers

1,699
citations

23
h-index

38
g-index

84
ext. papers

1,882
ext. citations

5.3
avg, IF

4.28
L-index

#	Paper	IF	Citations
77	Inhibitors of sphingolipid metabolism enzymes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 1957-77	3.8	143
76	Control of metabolism and signaling of simple bioactive sphingolipids: Implications in disease. <i>Progress in Lipid Research</i> , 2010 , 49, 316-34	14.3	111
75	Dihydroceramide accumulation mediates cytotoxic autophagy of cancer cells via autolysosome destabilization. <i>Autophagy</i> , 2016 , 12, 2213-2229	10.2	85
74	Detection of DNA adducts derived from the reactive metabolite of furan, cis-2-butene-1,4-dial. <i>Chemical Research in Toxicology</i> , 2006 , 19, 414-20	4	72
73	C6-ceramide and targeted inhibition of acid ceramidase induce synergistic decreases in breast cancer cell growth. <i>Breast Cancer Research and Treatment</i> , 2012 , 133, 447-58	4.4	61
72	Dihydrosphingomyelin impairs HIV-1 infection by rigidifying liquid-ordered membrane domains. <i>Chemistry and Biology</i> , 2010 , 17, 766-75		59
71	Investigating the formation and toxicity of nitrogen transformation products of diclofenac and sulfamethoxazole in wastewater treatment plants. <i>Journal of Hazardous Materials</i> , 2016 , 309, 157-64	12.8	58
70	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6911-6915	16.4	56
69	Simultaneous determination of diclofenac, its human metabolites and microbial nitration/nitrosation transformation products in wastewaters by liquid chromatography/quadrupole-linear ion trap mass spectrometry. <i>Journal of Chromatography A</i> , 2014 , 1247, 68-74	4.5	55
68	Dihydroceramide delays cell cycle G1/S transition via activation of ER stress and induction of autophagy. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 2135-43	5.6	55
67	Acid ceramidase as a therapeutic target in metastatic prostate cancer. <i>Journal of Lipid Research</i> , 2013 , 54, 1207-20	6.3	53
66	A simple fluorogenic method for determination of acid ceramidase activity and diagnosis of Farber disease. <i>Journal of Lipid Research</i> , 2010 , 51, 3542-7	6.3	48
65	Sex pheromone biosynthetic pathway for disparlure in the gypsy moth, <i>Lymantria dispar</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 809-14	11.5	47
64	Chemical tools to investigate sphingolipid metabolism and functions. <i>ChemMedChem</i> , 2007 , 2, 580-606	3.7	46
63	Is Hydrogen Tunneling Involved in AcylCoA Desaturase Reactions? The Case of a Delta(9) Desaturase That Transforms (E)-11-Tetradecenoic Acid into (Z,E)-9,11-Tetradecadienoic Acid This work was supported by Comisi� Asesora de Investigaci� Cient�fica y T�cnica (grant AGF 98-0844), Comisi�n para el Desarrollo Cient�fico from the Generalitat de Catalunya (grant 2006SGR 0021) and	16.4	45
62	Cellular changes that accompany shedding of human corneocytes. <i>Journal of Investigative Dermatology</i> , 2012 , 132, 2430-2439 (Spain). <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3279-328	4.3	42
61	A multifunctional desaturase involved in the biosynthesis of the processionary moth sex pheromone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16444-9	11.5	41

60	Unequivocal Identification of Compounds Formed in the Photodegradation of Fenitrothion in Water/Methanol and Proposal of Selected Transformation Pathways. <i>Journal of Agricultural and Food Chemistry</i> , 1994 , 42, 814-821	5.7	36
59	Straightforward access to spisulosine and 4,5-dehydrospisulosine stereoisomers: probes for profiling ceramide synthase activities in intact cells. <i>Journal of Organic Chemistry</i> , 2013 , 78, 5858-66	4.2	35
58	The anti-cancer drug ABTL0812 induces ER stress-mediated cytotoxic autophagy by increasing dihydroceramide levels in cancer cells. <i>Autophagy</i> , 2021 , 17, 1349-1366	10.2	30
57	Synthesis of a fluorogenic analogue of sphingosine-1-phosphate and its use to determine sphingosine-1-phosphate lyase activity. <i>ChemBioChem</i> , 2009 , 10, 820-2	3.8	26
56	¹⁵ N-Multilabeled Adenine and Guanine Nucleosides. Syntheses of [1,3,NH(2)-(15)N(3)]- and [2-(13)C-1,3,NH(2)-(15)N(3)]-Labeled Adenosine, Guanosine, 2SDeoxyadenosine, and 2SDeoxyguanosine. <i>Journal of Organic Chemistry</i> , 1999 , 64, 6575-6582	4.2	26
55	Inhibitors of sphingosine-1-phosphate metabolism (sphingosine kinases and sphingosine-1-phosphate lyase). <i>Chemistry and Physics of Lipids</i> , 2016 , 197, 69-81	3.7	24
54	Synthesis of dideuterated and enantiomers of monodeuterated tridecanoic acids at C-9 and C-10 positions. <i>Journal of Organic Chemistry</i> , 2000 , 65, 8582-8	4.2	20
53	Sphingolipid modulation: a strategy for cancer therapy. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2012 , 12, 285-302	2.2	20
52	Substrate-dependent stereochemical course of the (Z)-13-desaturation catalyzed by the processionary moth multifunctional desaturase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15007-12	16.4	18
51	Active site contacts in the purine nucleoside phosphorylase-hypoxanthine complex by NMR and ab initio calculations. <i>Biochemistry</i> , 2004 , 43, 15966-74	3.2	18
50	Synthesis and use of stereospecifically deuterated analogues of palmitic Acid to investigate the stereochemical course of the delta11 desaturase of the processionary moth. <i>Journal of Organic Chemistry</i> , 2004 , 69, 7108-13	4.2	18
49	Azide-tagged sphingolipids: new tools for metabolic flux analysis. <i>ChemBioChem</i> , 2015 , 16, 641-50	3.8	17
48	Identification of phototransformation products of sildenafil (Viagra) and its N-demethylated human metabolite under simulated sunlight. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 701-11	2.2	16
47	Natural products as platforms for the design of sphingolipid-related anticancer agents. <i>Advances in Cancer Research</i> , 2013 , 117, 237-81	5.9	15
46	Activity-Based Imaging of Acid Ceramidase in Living Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7736-7742	16.4	14
45	Stereospecificity of the (Z)-9 desaturase that converts (E)-11-tetradecenoic acid into (Z,E)-9,11-tetradecadienoic acid in the biosynthesis of <i>Spodoptera littoralis</i> sex pheromone. <i>Insect Biochemistry and Molecular Biology</i> , 2001 , 31, 799-803	4.5	14
44	2,3:18,19-dioxidosqualene: synthesis and activity as a potent inhibitor of 2,3-oxidosqualene-lanosterol cyclase in rat liver microsomes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1992 , 2, 1239-1242	2.9	14
43	Jaspine B induces nonapoptotic cell death in gastric cancer cells independently of its inhibition of ceramide synthase. <i>Journal of Lipid Research</i> , 2017 , 58, 1500-1513	6.3	13

42	Dioxidosqualenes: characterization and activity as inhibitors of 2,3-oxidosqualene-lanosterol cyclase. <i>Journal of Organic Chemistry</i> , 1993 , 58, 3991-3997	4.2	13
41	Inhibitors of ceramide de novo biosynthesis rescue damages induced by cigarette smoke in airways epithelia. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2017 , 390, 753-759	3.4	12
40	Ceramidases in hematological malignancies: senseless or neglected target?. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2011 , 11, 830-43	2.2	12
39	Internal Oxidosqualenes: Determination of Absolute Configuration and Activity as Inhibitors of Purified Pig Liver Squalene Epoxidase. <i>Journal of Organic Chemistry</i> , 1995 , 60, 3648-3656	4.2	12
38	Ceramide Analogue SACLAC Modulates Sphingolipid Levels and Splicing to Induce Apoptosis in Acute Myeloid Leukemia. <i>Molecular Cancer Research</i> , 2020 , 18, 352-363	6.6	12
37	High yield protection of purine ribonucleosides for H-phosphonate RNA synthesis. <i>Tetrahedron Letters</i> , 1997 , 38, 7135-7138	2	11
36	Abiotic amidine and guanidine hydrolysis of lamotrigine-N2-glucuronide and related compounds in wastewater: The role of pH and N2-substitution on reaction kinetics. <i>Water Research</i> , 2016 , 100, 466-475	12.5	11
35	The first fluorogenic sensor for sphingosine-1-phosphate lyase activity in intact cells. <i>Chemical Communications</i> , 2017 , 53, 5441-5444	5.8	10
34	Analysis of the neurotoxic effects of neuropathic organophosphorus compounds in adult zebrafish. <i>Scientific Reports</i> , 2018 , 8, 4844	4.9	10
33	Activity of neutral and alkaline ceramidases on fluorogenic N-acylated coumarin-containing aminodiols. <i>Journal of Lipid Research</i> , 2015 , 56, 2019-28	6.3	9
32	Dihydroceramide Desaturase 1 Inhibitors Reduce Amyloid- β Levels in Primary Neurons from an Alzheimer's Disease Transgenic Model. <i>Pharmaceutical Research</i> , 2018 , 35, 49	4.5	9
31	A straightforward synthesis of the CERT inhibitor (1 <i>R</i> ,3 <i>S</i>)-HPA-12. <i>Tetrahedron Letters</i> , 2015 , 56, 1706-1708	8	8
30	3-Deoxy-3,4-dehydro analogs of XM462. Preparation and activity on sphingolipid metabolism and cell fate. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 3173-9	3.4	8
29	Structure elucidation of phototransformation products of unapproved analogs of the erectile dysfunction drug sildenafil in artificial freshwater with UPLC-Q Exactive-MS. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 1279-89	2.2	8
28	Novel chemoenzymatic strategy for the synthesis of enantiomerically pure secondary alcohols with sterically similar substituents. <i>Journal of Organic Chemistry</i> , 2003 , 68, 5351-6	4.2	8
27	Synthesis of deuterated fatty acids to investigate the biosynthetic pathway of disparlure, the sex pheromone of the gypsy moth, <i>Lymantria dispar</i> . <i>Lipids</i> , 2004 , 39, 397-401	1.6	7
26	2,3,18,19-Dioxidosqualene Stereoisomers: Characterization and Activity as Inhibitors of Purified Pig Liver 2,3-Oxidosqualene-Lanosterol Cyclase. <i>Journal of Organic Chemistry</i> , 1996 , 61, 7603-7607	4.2	7
25	In situ synthesis of fluorescent membrane lipids (ceramides) using click chemistry. <i>Journal of Chemical Biology</i> , 2012 , 5, 119-23		6

24	Synthesis and use of probes to investigate the cryptoregiochemistry of the first animal acetylenase. <i>Journal of Organic Chemistry</i> , 2006 , 71, 7558-64	4.2	6
23	Synthesis of fluorinated analogs of myristic acid as potential inhibitors of Egyptian armyworm (<i>Spodoptera littoralis</i>) delta11 desaturase. <i>Lipids</i> , 2003 , 38, 865-71	1.6	6
22	Click and count: specific detection of acid ceramidase activity in live cells. <i>Chemical Science</i> , 2020 , 11, 13044-13051	9.4	6
21	From the configurational preference of dihydroceramide desaturase-1 towards Δ unsaturated substrates to the discovery of a new inhibitor. <i>Chemical Communications</i> , 2017 , 53, 4394-4397	5.8	5
20	Fluorescent polyene ceramide analogues as membrane probes. <i>Langmuir</i> , 2015 , 31, 2484-92	4	5
19	Discovery of deoxyceramide analogs as highly selective ACER3 inhibitors in live cells. <i>European Journal of Medicinal Chemistry</i> , 2021 , 216, 113296	6.8	5
18	3-Ketosphinganine provokes the accumulation of dihydroshingolipids and induces autophagy in cancer cells. <i>Molecular BioSystems</i> , 2016 , 12, 1166-73		5
17	Azide-tagged sphingolipids for the proteome-wide identification of C16-ceramide-binding proteins. <i>Chemical Communications</i> , 2018 , 54, 13742-13745	5.8	5
16	New fluorogenic probes for neutral and alkaline ceramidases. <i>Journal of Lipid Research</i> , 2019 , 60, 1174-1181	4.1	4
15	Synthesis and use of deuterated palmitic acids to decipher the cryptoregiochemistry of a Δ 13 desaturation. <i>Journal of Organic Chemistry</i> , 2007 , 72, 760-4	4.2	4
14	Rotational spectra of tetracyclic quinolizidine alkaloids: does a water molecule flip sparteine?. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17553-17559	3.6	3
13	Bacterial versus human sphingosine-1-phosphate lyase (S1PL) in the design of potential S1PL inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 4381-4389	3.4	3
12	Use of ^{13}C tags with specifically ^{15}N -labeled DNA and RNA. <i>Biopolymers</i> , 1998 , 48, 57-63	2.2	3
11	Epoxidation of 6,7- and 10,11-oxidosqualenes by the squalene epoxidase present in rat liver microsomes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1993 , 3, 2581-2586	2.9	3
10	Clearly Detectable, Kinetically Restricted Solid-Solid Phase Transition in cis-Ceramide Monolayers. <i>Langmuir</i> , 2018 , 34, 11749-11758	4	3
9	Studies on the inhibition of sphingosine-1-phosphate lyase by stabilized reaction intermediates and stereodefined azido phosphates. <i>European Journal of Medicinal Chemistry</i> , 2016 , 123, 905-915	6.8	2
8	Arylacetic acid derivatization of 2,3- and internal erythro-squalene diols. Separation and absolute configuration determination. <i>Tetrahedron</i> , 2004 , 60, 11519-11525	2.4	2
7	Synthesis and characterization of bichromophoric 1-deoxyceramides as FRET probes. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 2456-2467	3.9	2

6	Chemical Probes of Sphingolipid Metabolizing Enzymes 2015 , 437-469		1
5	A Mechanism-Based Sphingosine-1-phosphate Lyase Inhibitor. <i>Journal of Organic Chemistry</i> , 2020 , 85, 419-429	4.2	1
4	Chirality-Puckering correlation and intermolecular interactions in Sphingosines: Rotational spectroscopy of jaspine B3 and its monohydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 267, 120531	4.4	0
3	Stereoselective preparation of quaternary 2-vinyl sphingosines and ceramides and their effect on basal sphingolipid metabolism. <i>Chemistry and Physics of Lipids</i> , 2017 , 205, 34-41	3.7	
2	Approaches to polyunsaturated sphingolipids: new conformationally restrained analogs with minimal structural modifications. <i>Tetrahedron</i> , 2016 , 72, 605-612	2.4	
1	Rotational spectroscopy of organophosphorous chemical agents: cresyl and phenyl saligenin phosphates. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16418-16422	3.6	