Jos Lus Abad

List of Publications by Year in Descending Order

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	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	4.4	0
76	Discovery of deoxyceramide analogs as highly selective ACER3 inhibitors in live cells. *European Journal of Medicinal Chemistry*, **2021**, 216, 113296	6.8	5
75	The anti-cancer drug ABTL0812 induces ER stress-mediated cytotoxic autophagy by increasing dihydroceramide levels in cancer cells. *Autophagy*, **2021**, 17, 1349-1366	10.2	30
74	Synthesis and characterization of bichromophoric 1-deoxyceramides as FRET probes. *Organic and Biomolecular Chemistry*, **2021**, 19, 2456-2467	3.9	2
73	A Mechanism-Based Sphingosine-1-phosphate Lyase Inhibitor. *Journal of Organic Chemistry*, **2020**, 85, 419-429	4.2	1
72	Ceramide Analogue SACLAC Modulates Sphingolipid Levels and Splicing to Induce Apoptosis in Acute Myeloid Leukemia. *Molecular Cancer Research*, **2020**, 18, 352-363	6.6	12
71	Click and count: specific detection of acid ceramidase activity in live cells. *Chemical Science*, **2020**, 11, 13044-13051	9.4	6
70	Activity-Based Imaging of Acid Ceramidase in Living Cells. *Journal of the American Chemical Society*, **2019**, 141, 7736-7742	16.4	14
69	SCOTfluors: Small, Conjugatable, Orthogonal, and Tunable Fluorophores for In Vivo Imaging of Cell Metabolism. *Angewandte Chemie - International Edition*, **2019**, 58, 6911-6915	16.4	56
68	New fluorogenic probes for neutral and alkaline ceramidases. *Journal of Lipid Research*, **2019**, 60, 1174-1181	4.9	4
67	Rotational spectroscopy of organophosphorous chemical agents: cresyl and phenyl saligenin phosphates. *Physical Chemistry Chemical Physics*, **2019**, 21, 16418-16422	3.6	
66	Dihydroceramide Desaturase 1 Inhibitors Reduce Amyloid-β Levels in Primary Neurons from an Alzheimer's Disease Transgenic Model. *Pharmaceutical Research*, **2018**, 35, 49	4.5	9
65	Analysis of the neurotoxic effects of neuropathic organophosphorus compounds in adult zebrafish. *Scientific Reports*, **2018**, 8, 4844	4.9	10
64	Azide-tagged sphingolipids for the proteome-wide identification of C16-ceramide-binding proteins. *Chemical Communications*, **2018**, 54, 13742-13745	5.8	5
63	Clearly Detectable, Kinetically Restricted Solid-Solid Phase Transition in cis-Ceramide Monolayers. *Langmuir*, **2018**, 34, 11749-11758	4	3
62	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	3.4	12
61	The first fluorogenic sensor for sphingosine-1-phosphate lyase activity in intact cells. *Chemical Communications*, **2017**, 53, 5441-5444	5.8	10

60	Rotational spectra of tetracyclic quinolizidine alkaloids: does a water molecule flip sparteine?. *Physical Chemistry Chemical Physics*, **2017**, 19, 17553-17559	3.6	3
59	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	3.7	
58	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	6.3	13
57	From the configurational preference of dihydroceramide desaturase-1 towards unsaturated substrates to the discovery of a new inhibitor. *Chemical Communications*, **2017**, 53, 4394-4397	5.8	5
56	Inhibitors of sphingosine-1-phosphate metabolism (sphingosine kinases and sphingosine-1-phosphate lyase). *Chemistry and Physics of Lipids*, **2016**, 197, 69-81	3.7	24
55	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	6.8	2
54	Dihydroceramide accumulation mediates cytotoxic autophagy of cancer cells via autolysosome destabilization. *Autophagy*, **2016**, 12, 2213-2229	10.2	85
53	Bacterial versus human sphingosine-1-phosphate lyase (S1PL) in the design of potential S1PL inhibitors. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 4381-4389	3.4	3
52	Investigating the formation and toxicity of nitrogen transformation products of diclofenac and sulfamethoxazole in wastewater treatment plants. *Journal of Hazardous Materials*, **2016**, 309, 157-64	12.8	58
51	Approaches to polyunsaturated sphingolipids: new conformationally restrained analogs with minimal structural modifications. *Tetrahedron*, **2016**, 72, 605-612	2.4	
50	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	12.5	11
49	3-Ketosphinganine provokes the accumulation of dihydroshingolipids and induces autophagy in cancer cells. *Molecular BioSystems*, **2016**, 12, 1166-73		5
48	Azide-tagged sphingolipids: new tools for metabolic flux analysis. *ChemBioChem*, **2015**, 16, 641-50	3.8	17
47	A straightforward synthesis of the CERT inhibitor (1?R,3?S)-HPA-12. *Tetrahedron Letters*, **2015**, 56, 1706-1708	2	8
46	Activity of neutral and alkaline ceramidases on fluorogenic N-acylated coumarin-containing aminodiols. *Journal of Lipid Research*, **2015**, 56, 2019-28	6.3	9
45	Fluorescent polyene ceramide analogues as membrane probes. *Langmuir*, **2015**, 31, 2484-92	4	5
44	Chemical Probes of Sphingolipid Metabolizing Enzymes **2015**, 437-469		1
43	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	4.5	55

42	Structure elucidation of phototransformation products of unapproved analogs of the erectile dysfunction drug sildenafil in artificial freshwater with UPLC-Q Exactive-MS. *Journal of Mass Spectrometry*, **2014**, 49, 1279-89	2.2	8
41	Natural products as platforms for the design of sphingolipid-related anticancer agents. *Advances in Cancer Research*, **2013**, 117, 237-81	5.9	15
40	Straightforward access to spisulosine and 4,5-dehydrospisulosine stereoisomers: probes for profiling ceramide synthase activities in intact cells. *Journal of Organic Chemistry*, **2013**, 78, 5858-66	4.2	35
39	Acid ceramidase as a therapeutic target in metastatic prostate cancer. *Journal of Lipid Research*, **2013**, 54, 1207-20	6.3	53
38	3-Deoxy-3,4-dehydro analogs of XM462. Preparation and activity on sphingolipid metabolism and cell fate. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 3173-9	3.4	8
37	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, 2135-43	5.6	55
36	Identification of phototransformation products of sildenafil (Viagra) and its N-demethylated human metabolite under simulated sunlight. *Journal of Mass Spectrometry*, **2012**, 47, 701-11	2.2	16
35	In situ synthesis of fluorescent membrane lipids (ceramides) using click chemistry. *Journal of Chemical Biology*, **2012**, 5, 119-23		6
34	C6-ceramide and targeted inhibition of acid ceramidase induce synergistic decreases in breast cancer cell growth. *Breast Cancer Research and Treatment*, **2012**, 133, 447-58	4.4	61
33	Cellular changes that accompany shedding of human corneocytes. *Journal of Investigative Dermatology*, **2012**, 132, 2430-2439	4.3	42
32	Sphingolipid modulation: a strategy for cancer therapy. *Anti-Cancer Agents in Medicinal Chemistry*, **2012**, 12, 285-302	2.2	20
31	Ceramidases in hematological malignancies: senseless or neglected target?. *Anti-Cancer Agents in Medicinal Chemistry*, **2011**, 11, 830-43	2.2	12
30	A simple fluorogenic method for determination of acid ceramidase activity and diagnosis of Farber disease. *Journal of Lipid Research*, **2010**, 51, 3542-7	6.3	48
29	Control of metabolism and signaling of simple bioactive sphingolipids: Implications in disease. *Progress in Lipid Research*, **2010**, 49, 316-34	14.3	111
28	Dihydrosphingomyelin impairs HIV-1 infection by rigidifying liquid-ordered membrane domains. *Chemistry and Biology*, **2010**, 17, 766-75		59
27	Synthesis of a fluorogenic analogue of sphingosine-1-phosphate and its use to determine sphingosine-1-phosphate lyase activity. *ChemBioChem*, **2009**, 10, 820-2	3.8	26
26	Substrate-dependent stereochemical course of the (Z)-13-desaturation catalyzed by the processionary moth multifunctional desaturase. *Journal of the American Chemical Society*, **2007**, 129, 15007-12	16.4	18
25	Synthesis and use of deuterated palmitic acids to decipher the cryptoregiochemistry of a Delta13 desaturation. *Journal of Organic Chemistry*, **2007**, 72, 760-4	4.2	4

24	Chemical tools to investigate sphingolipid metabolism and functions. *ChemMedChem*, **2007**, 2, 580-606	3.7	46
23	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, 16444-9	11.5	41
22	Synthesis and use of probes to investigate the cryptoregiochemistry of the first animal acetylenase. *Journal of Organic Chemistry*, **2006**, 71, 7558-64	4.2	6
21	Detection of DNA adducts derived from the reactive metabolite of furan, cis-2-butene-1,4-dial. *Chemical Research in Toxicology*, **2006**, 19, 414-20	4	72
20	Inhibitors of sphingolipid metabolism enzymes. *Biochimica Et Biophysica Acta - Biomembranes*, **2006**, 1758, 1957-77	3.8	143
19	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	1.6	7
18	Arylacetic acid derivatization of 2,3- and internal erythro-squalene diols. Separation and absolute configuration determination. *Tetrahedron*, **2004**, 60, 11519-11525	2.4	2
17	Active site contacts in the purine nucleoside phosphorylase--hypoxanthine complex by NMR and ab initio calculations. *Biochemistry*, **2004**, 43, 15966-74	3.2	18
16	Synthesis and use of stereospecifically deuterated analogues of palmitic Acid to investigate the stereochemical course of the delta11 desaturase of the processionary moth. *Journal of Organic Chemistry*, **2004**, 69, 7108-13	4.2	18
15	Synthesis of fluorinated analogs of myristic acid as potential inhibitors of Egyptian armyworm (Spodoptera littoralis) delta11 desaturase. *Lipids*, **2003**, 38, 865-71	1.6	6
14	Novel chemoenzymatic strategy for the synthesis of enantiomerically pure secondary alcohols with sterically similar substituents. *Journal of Organic Chemistry*, **2003**, 68, 5351-6	4.2	8
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, 809-14	11.5	47
12	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	4.5	14
11	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 Cientfica y Tnica (grant AGF 98-0844),	16.4	45
10	Synthesis of dideuterated and enantiomers of monodeuterated tridecanoic acids at C-9 and C-10 positions. *Journal of Organic Chemistry*, **2000**, 65, 8582-8	4.2	20
9	15N-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. *Journal of Organic Chemistry*, **1999**, 64, 6575-6582	4.2	26
8	Use of 13C tags with specifically 15N-labeled DNA and RNA. *Biopolymers*, **1998**, 48, 57-63	2.2	3
7	High yield protection of purine ribonucleosides for H-phosphonate RNA synthesis. *Tetrahedron Letters*, **1997**, 38, 7135-7138	2	11

6	2,3,18,19-Dioxidosqualene Stereoisomers: Characterization and Activity as Inhibitors of Purified Pig Liver 2,3-Oxidosqualene-Lanosterol Cyclase. *Journal of Organic Chemistry*, **1996**, 61, 7603-7607	4.2	7
5	Internal Oxidosqualenes: Determination of Absolute Configuration and Activity as Inhibitors of Purified Pig Liver Squalene Epoxidase. *Journal of Organic Chemistry*, **1995**, 60, 3648-3656	4.2	12
4	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	5.7	36
3	Dioxidosqualenes: characterization and activity as inhibitors of 2,3-oxidosqualene-lanosterol cyclase. *Journal of Organic Chemistry*, **1993**, 58, 3991-3997	4.2	13
2	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	2.9	3
1	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	2.9	14