

# Jose M Alonso

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106 papers	22,162 citations	67 h-index	118 g-index
118 ext. papers	25,354 ext. citations	13.9 avg, IF	6.3 L-index

#	Paper	IF	Citations
106	A Ribo-Seq Method to Study Genome-Wide Translational Regulation in Plants.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2494, 61-98	1.4	0
105	Leveraging synthetic biology approaches in plant hormone research. <i>Current Opinion in Plant Biology</i> , <b>2021</b> , 60, 101998	9.9	6
104	Auxin Interactions with Other Hormones in Plant Development. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2021</b> , 13,	10.2	5
103	A G protein-coupled receptor-like module regulates cellulose synthase secretion from the endomembrane system in Arabidopsis. <i>Developmental Cell</i> , <b>2021</b> , 56, 1484-1497.e7	10.2	6
102	To Fight or to Grow: The Balancing Role of Ethylene in Plant Abiotic Stress Responses.. <i>Plants</i> , <b>2021</b> , 11,	4.5	4
101	Regulation of ovule initiation by gibberellins and brassinosteroids in tomato and Arabidopsis: two plant species, two molecular mechanisms. <i>Plant Journal</i> , <b>2020</b> , 102, 1026-1041	6.9	9
100	Structure-Function Analysis of Interallelic Complementation in Transheterozygotes. <i>Plant Physiology</i> , <b>2020</b> , 183, 1110-1125	6.6	2
99	RiboSimR: A Tool for Simulation and Power Analysis of Ribo-seq Data. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 121-133	0.9	1
98	An Improved Recombineering Toolset for Plants. <i>Plant Cell</i> , <b>2020</b> , 32, 100-122	11.6	10
97	Development of a relative quantification method for infrared matrix-assisted laser desorption electrospray ionization mass spectrometry imaging of Arabidopsis seedlings. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34, e8616	2.2	5
96	Gibberellin-mediated RGA-LIKE1 degradation regulates embryo sac development in Arabidopsis. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 7059-7072	7	4
95	RGL2 controls flower development, ovule number and fertility in Arabidopsis. <i>Plant Science</i> , <b>2019</b> , 281, 82-92	5.3	12
94	RiboStreamR: a web application for quality control, analysis, and visualization of Ribo-seq data. <i>BMC Genomics</i> , <b>2019</b> , 20, 422	4.5	9
93	A mechanistic framework for auxin dependent Arabidopsis root hair elongation to low external phosphate. <i>Nature Communications</i> , <b>2018</b> , 9, 1409	17.4	79
92	Microtubule-Dependent Confinement of a Cell Signaling and Actin Polymerization Control Module Regulates Polarized Cell Growth. <i>Current Biology</i> , <b>2018</b> , 28, 2459-2466.e4	6.3	23
91	Gibberellins negatively modulate ovule number in plants. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	21
90	Local Auxin Biosynthesis Is a Key Regulator of Plant Development. <i>Developmental Cell</i> , <b>2018</b> , 47, 306-318.e5	6.5	127

89	Transcriptomic Analysis in Strawberry Fruits Reveals Active Auxin Biosynthesis and Signaling in the Ripe Receptacle. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 889	6.2	38
88	Auxin catabolism unplugged: Role of IAA oxidation in auxin homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10742-4	11.5	21
87	Genome-Wide Search for Translated Upstream Open Reading Frames in Arabidopsis Thaliana. <i>IEEE Transactions on Nanobioscience</i> , <b>2016</b> , 15, 148-57	3.4	9
86	A Ribosome Footprinting Protocol for Plants. <i>Bio-protocol</i> , <b>2016</b> , 6,	0.9	2
85	Cutting Out the Middle Man in Light-Hormone Interactions. <i>Developmental Cell</i> , <b>2016</b> , 39, 524-526	10.2	2
84	50 years of Arabidopsis research: highlights and future directions. <i>New Phytologist</i> , <b>2016</b> , 209, 921-44	9.8	128
83	Auxin influx carriers control vascular patterning and xylem differentiation in Arabidopsis thaliana. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005183	6	52
82	Gene-specific translation regulation mediated by the hormone-signaling molecule EIN2. <i>Cell</i> , <b>2015</b> , 163, 684-97	56.2	184
81	Transcriptional control of tissue formation throughout root development. <i>Science</i> , <b>2015</b> , 350, 426-30	33.3	84
80	REGULATOR OF BULB BIOGENESIS1 (RBB1) Is Involved in Vacuole Bulb Formation in Arabidopsis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125621	3.7	13
79	CESA TRAFFICKING INHIBITOR inhibits cellulose deposition and interferes with the trafficking of cellulose synthase complexes and their associated proteins KORRIGAN1 and POM2/CELLULOSE SYNTHASE INTERACTIVE PROTEIN1. <i>Plant Physiology</i> , <b>2015</b> , 167, 381-93	6.6	28
78	A recombineering-based gene tagging system for Arabidopsis. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1227, 233-43	1.4	7
77	A Stacking-Based Approach to Identify Translated Upstream Open Reading Frames in Arabidopsis Thaliana. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 138-149	0.9	4
76	The Arabidopsis 14-3-3 protein RARE COLD INDUCIBLE 1A links low-temperature response and ethylene biosynthesis to regulate freezing tolerance and cold acclimation. <i>Plant Cell</i> , <b>2014</b> , 26, 3326-42	11.6	122
75	Systems analysis of auxin transport in the Arabidopsis root apex. <i>Plant Cell</i> , <b>2014</b> , 26, 862-75	11.6	151
74	Genetic aspects of auxin biosynthesis and its regulation. <i>Physiologia Plantarum</i> , <b>2014</b> , 151, 3-12	4.6	59
73	Arabidopsis transformation with large bacterial artificial chromosomes. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1062, 271-83	1.4	6
72	Local auxin sources orient the apical-basal axis in Arabidopsis embryos. <i>Current Biology</i> , <b>2013</b> , 23, 2506-12	12.3	138

71	Ethylene signaling: simple ligand, complex regulation. <i>Current Opinion in Plant Biology</i> , <b>2013</b> , 16, 554-60	9.9	209
70	Kinetic analysis of Arabidopsis glucosyltransferase UGT74B1 illustrates a general mechanism by which enzymes can escape product inhibition. <i>Biochemical Journal</i> , <b>2013</b> , 450, 37-46	3.8	12
69	Functional characterization of type-B response regulators in the Arabidopsis cytokinin response. <i>Plant Physiology</i> , <b>2013</b> , 162, 212-24	6.6	63
68	Molecular mechanisms of ethylene-auxin interaction. <i>Molecular Plant</i> , <b>2013</b> , 6, 1734-7	14.4	22
67	Arabidopsis SABRE and CLASP interact to stabilize cell division plane orientation and planar polarity. <i>Nature Communications</i> , <b>2013</b> , 4, 2779	17.4	49
66	AUX/LAX genes encode a family of auxin influx transporters that perform distinct functions during Arabidopsis development. <i>Plant Cell</i> , <b>2012</b> , 24, 2874-85	11.6	280
65	Bypassing transcription: a shortcut in cytokinin-auxin interactions. <i>Developmental Cell</i> , <b>2011</b> , 21, 608-10	10.2	9
64	A small-molecule screen identifies L-kynurenine as a competitive inhibitor of TAA1/TAR activity in ethylene-directed auxin biosynthesis and root growth in Arabidopsis. <i>Plant Cell</i> , <b>2011</b> , 23, 3944-60	11.6	248
63	A recombineering-based gene tagging system for Arabidopsis. <i>Plant Journal</i> , <b>2011</b> , 66, 712-23	6.9	47
62	The Arabidopsis YUCCA1 flavin monooxygenase functions in the indole-3-pyruvic acid branch of auxin biosynthesis. <i>Plant Cell</i> , <b>2011</b> , 23, 3961-73	11.6	261
61	A combinatorial interplay among the 1-aminocyclopropane-1-carboxylate isoforms regulates ethylene biosynthesis in Arabidopsis thaliana. <i>Genetics</i> , <b>2009</b> , 183, 979-1003	4	208
60	Ethylene signaling and response: where different regulatory modules meet. <i>Current Opinion in Plant Biology</i> , <b>2009</b> , 12, 548-55	9.9	196
59	Local auxin biosynthesis modulates gradient-directed planar polarity in Arabidopsis. <i>Nature Cell Biology</i> , <b>2009</b> , 11, 731-8	23.4	141
58	TAA1-mediated auxin biosynthesis is essential for hormone crosstalk and plant development. <i>Cell</i> , <b>2008</b> , 133, 177-91	56.2	808
57	The Arabidopsis phytochrome-interacting factor PIF7, together with PIF3 and PIF4, regulates responses to prolonged red light by modulating phyB levels. <i>Plant Cell</i> , <b>2008</b> , 20, 337-52	11.6	261
56	Potential sites of bioactive gibberellin production during reproductive growth in Arabidopsis. <i>Plant Cell</i> , <b>2008</b> , 20, 320-36	11.6	175
55	A WD40 domain cyclophilin interacts with histone H3 and functions in gene repression and organogenesis in Arabidopsis. <i>Plant Cell</i> , <b>2007</b> , 19, 2403-16	11.6	53
54	Multilevel interactions between ethylene and auxin in Arabidopsis roots. <i>Plant Cell</i> , <b>2007</b> , 19, 2169-85	11.6	416

53	An adapter ligation-mediated PCR method for high-throughput mapping of T-DNA inserts in the Arabidopsis genome. <i>Nature Protocols</i> , <b>2007</b> , 2, 2910-7	18.8	96
52	Genome-wide high-resolution mapping of exosome substrates reveals hidden features in the Arabidopsis transcriptome. <i>Cell</i> , <b>2007</b> , 131, 1340-53	56.2	258
51	The Arabidopsis histidine phosphotransfer proteins are redundant positive regulators of cytokinin signaling. <i>Plant Cell</i> , <b>2006</b> , 18, 3073-87	11.6	313
50	PCR-based screening for insertional mutants. <i>Methods in Molecular Biology</i> , <b>2006</b> , 323, 163-72	1.4	8
49	PHYTOCHROME KINASE SUBSTRATE 1 is a phototropin 1 binding protein required for phototropism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 10134-9	11.5	138
48	RACK1 mediates multiple hormone responsiveness and developmental processes in Arabidopsis. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 2697-708	7	107
47	Downregulation of ClpR2 leads to reduced accumulation of the ClpPRS protease complex and defects in chloroplast biogenesis in Arabidopsis. <i>Plant Cell</i> , <b>2006</b> , 18, 1704-21	11.6	100
46	Molecular mechanisms of ethylene signaling in Arabidopsis. <i>Molecular BioSystems</i> , <b>2006</b> , 2, 165-73		55
45	Localization of iron in Arabidopsis seed requires the vacuolar membrane transporter VIT1. <i>Science</i> , <b>2006</b> , 314, 1295-8	33.3	496
44	CDPKs CPK6 and CPK3 function in ABA regulation of guard cell S-type anion- and Ca(2+)-permeable channels and stomatal closure. <i>PLoS Biology</i> , <b>2006</b> , 4, e327	9.7	446
43	Moving forward in reverse: genetic technologies to enable genome-wide phenomic screens in Arabidopsis. <i>Nature Reviews Genetics</i> , <b>2006</b> , 7, 524-36	30.1	197
42	A Link between ethylene and auxin uncovered by the characterization of two root-specific ethylene-insensitive mutants in Arabidopsis. <i>Plant Cell</i> , <b>2005</b> , 17, 2230-42	11.6	385
41	Phytochrome-specific type 5 phosphatase controls light signal flux by enhancing phytochrome stability and affinity for a signal transducer. <i>Cell</i> , <b>2005</b> , 120, 395-406	56.2	133
40	Arabidopsis ethylene signaling pathway. <i>Science Signaling</i> , <b>2005</b> , 2005, cm4	8.8	34
39	An Arabidopsis NPR1-like gene, NPR4, is required for disease resistance. <i>Plant Journal</i> , <b>2005</b> , 41, 304-18	6.9	112
38	NPH4/ARF7 and ARF19 promote leaf expansion and auxin-induced lateral root formation. <i>Plant Journal</i> , <b>2005</b> , 43, 118-30	6.9	312
37	Ethylene signalling and response pathway: a unique signalling cascade with a multitude of inputs and outputs. <i>Physiologia Plantarum</i> , <b>2005</b> , 123, 195-206	4.6	67
36	Ethylene signaling pathway. <i>Science Signaling</i> , <b>2005</b> , 2005, cm3	8.8	11

35	Class III homeodomain-leucine zipper gene family members have overlapping, antagonistic, and distinct roles in Arabidopsis development. <i>Plant Cell</i> , <b>2005</b> , 17, 61-76	11.6	530
34	Functional genomic analysis of the AUXIN/INDOLE-3-ACETIC ACID gene family members in Arabidopsis thaliana. <i>Plant Cell</i> , <b>2005</b> , 17, 3282-300	11.6	265
33	Auxin response factors ARF6 and ARF8 promote jasmonic acid production and flower maturation. <i>Development (Cambridge)</i> , <b>2005</b> , 132, 4107-18	6.6	464
32	Multiple type-B response regulators mediate cytokinin signal transduction in Arabidopsis. <i>Plant Cell</i> , <b>2005</b> , 17, 3007-18	11.6	315
31	Functional genomic analysis of the AUXIN RESPONSE FACTOR gene family members in Arabidopsis thaliana: unique and overlapping functions of ARF7 and ARF19. <i>Plant Cell</i> , <b>2005</b> , 17, 444-63	11.6	699
30	A homolog of prokaryotic thiol disulfide transporter CcdA is required for the assembly of the cytochrome b6f complex in Arabidopsis chloroplasts. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 32474-82	5.4	79
29	The phytochrome-interacting transcription factor, PIF3, acts early, selectively, and positively in light-induced chloroplast development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 16091-8	11.5	244
28	Type-A Arabidopsis response regulators are partially redundant negative regulators of cytokinin signaling. <i>Plant Cell</i> , <b>2004</b> , 16, 658-71	11.6	503
27	GCR1 can act independently of heterotrimeric G-protein in response to brassinosteroids and gibberellins in Arabidopsis seed germination. <i>Plant Physiology</i> , <b>2004</b> , 135, 907-15	6.6	148
26	Regulation of flowering time in Arabidopsis by K homology domain proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 12759-64	11.5	128
25	CBF2/DREB1C is a negative regulator of CBF1/DREB1B and CBF3/DREB1A expression and plays a central role in stress tolerance in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 3985-90	11.5	413
24	Della proteins and gibberellin-regulated seed germination and floral development in Arabidopsis. <i>Plant Physiology</i> , <b>2004</b> , 135, 1008-19	6.6	431
23	The ethylene signaling pathway. <i>Science</i> , <b>2004</b> , 306, 1513-5	33.3	168
22	Flagellin is not a major defense elicitor in <i>Ralstonia solanacearum</i> cells or extracts applied to Arabidopsis thaliana. <i>Molecular Plant-Microbe Interactions</i> , <b>2004</b> , 17, 696-706	3.6	90
21	Convergence of signaling pathways in the control of differential cell growth in Arabidopsis. <i>Developmental Cell</i> , <b>2004</b> , 7, 193-204	10.2	253
20	Enhanced fitness conferred by naturally occurring variation in the circadian clock. <i>Science</i> , <b>2003</b> , 302, 1049-53	33.3	347
19	Five components of the ethylene-response pathway identified in a screen for weak ethylene-insensitive mutants in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 2992-7	11.5	312
18	Isolation and characterization of phyC mutants in Arabidopsis reveals complex crosstalk between phytochrome signaling pathways. <i>Plant Cell</i> , <b>2003</b> , 15, 1962-80	11.6	159

17	Chloroplast to nucleus communication triggered by accumulation of Mg-protoporphyrinIX. <i>Nature</i> , <b>2003</b> , 421, 79-83	50.4	484
16	T-DNA mutagenesis in Arabidopsis. <i>Methods in Molecular Biology</i> , <b>2003</b> , 236, 177-88	1.4	37
15	GUN4, a regulator of chlorophyll synthesis and intracellular signaling. <i>Science</i> , <b>2003</b> , 299, 902-6	33.3	411
14	Arabidopsis RIN4 is a target of the type III virulence effector AvrRpt2 and modulates RPS2-mediated resistance. <i>Cell</i> , <b>2003</b> , 112, 379-89	56.2	731
13	Genome-wide insertional mutagenesis of Arabidopsis thaliana. <i>Science</i> , <b>2003</b> , 301, 653-7	33.3	4165
12	A growth regulatory loop that provides homeostasis to phytochrome a signaling. <i>Plant Cell</i> , <b>2003</b> , 15, 2966-78	11.6	60
11	The beta-subunit of the Arabidopsis G protein negatively regulates auxin-induced cell division and affects multiple developmental processes. <i>Plant Cell</i> , <b>2003</b> , 15, 393-409	11.6	269
10	Mutations in the Ca <sup>2+</sup> /H <sup>+</sup> transporter CAX1 increase CBF/DREB1 expression and the cold-acclimation response in Arabidopsis. <i>Plant Cell</i> , <b>2003</b> , 15, 2940-51	11.6	148
9	De-etiolated 1 and damaged DNA binding protein 1 interact to regulate Arabidopsis photomorphogenesis. <i>Current Biology</i> , <b>2002</b> , 12, 1462-72	6.3	188
8	A role for peroxisomes in photomorphogenesis and development of Arabidopsis. <i>Science</i> , <b>2002</b> , 297, 405-9	33.3	128
7	NPSN11 is a cell plate-associated SNARE protein that interacts with the syntaxin KNOLLE. <i>Plant Physiology</i> , <b>2002</b> , 129, 530-9	6.6	73
6	Trp-dependent auxin biosynthesis in Arabidopsis: involvement of cytochrome P450s CYP79B2 and CYP79B3. <i>Genes and Development</i> , <b>2002</b> , 16, 3100-12	12.6	467
5	An Arabidopsis circadian clock component interacts with both CRY1 and phyB. <i>Nature</i> , <b>2001</b> , 410, 487-90	50.4	183
4	Phototropin-related NPL1 controls chloroplast relocation induced by blue light. <i>Nature</i> , <b>2001</b> , 410, 952-4	50.4	405
3	Involvement of NRAMP1 from Arabidopsis thaliana in iron transport. <i>Biochemical Journal</i> , <b>2000</b> , 347, 749	3.8	121
2	Sequence and analysis of chromosome 1 of the plant Arabidopsis thaliana. <i>Nature</i> , <b>2000</b> , 408, 816-20	50.4	183
1	RESPONSIVE-TO-ANTAGONIST1, a Menkes/Wilson disease-related copper transporter, is required for ethylene signaling in Arabidopsis. <i>Cell</i> , <b>1999</b> , 97, 383-93	56.2	351