Roberto Solano

List of Publications by Citations

108 papers	18,174 citations	55 h-index	115 g-index
115 ext. papers	21,893 ext. citations	10.4 avg, IF	6.47 L-index

#	Paper	IF	Citations
108	The JAZ family of repressors is the missing link in jasmonate signalling. *Nature*, **2007**, 448, 666-71	50.4	1576
107	JASMONATE-INSENSITIVE1 encodes a MYC transcription factor essential to discriminate between different jasmonate-regulated defense responses in Arabidopsis. *Plant Cell*, **2004**, 16, 1938-50	11.6	925
106	Nuclear events in ethylene signaling: a transcriptional cascade mediated by ETHYLENE-INSENSITIVE3 and ETHYLENE-RESPONSE-FACTOR1. *Genes and Development*, **1998**, 12, 3703-14	12.6	925
105	ETHYLENE RESPONSE FACTOR1 integrates signals from ethylene and jasmonate pathways in plant defense. *Plant Cell*, **2003**, 15, 165-78	11.6	913
104	A conserved MYB transcription factor involved in phosphate starvation signaling both in vascular plants and in unicellular algae. *Genes and Development*, **2001**, 15, 2122-33	12.6	858
103	Activation of the ethylene gas response pathway in Arabidopsis by the nuclear protein ETHYLENE-INSENSITIVE3 and related proteins. *Cell*, **1997**, 89, 1133-44	56.2	776
102	The Arabidopsis bHLH transcription factors MYC3 and MYC4 are targets of JAZ repressors and act additively with MYC2 in the activation of jasmonate responses. *Plant Cell*, **2011**, 23, 701-15	11.6	700
101	NINJA connects the co-repressor TOPLESS to jasmonate signalling. *Nature*, **2010**, 464, 788-91	50.4	679
100	(+)-7-iso-Jasmonoyl-L-isoleucine is the endogenous bioactive jasmonate. *Nature Chemical Biology*, **2009**, 5, 344-50	11.7	669
99	ABA is an essential signal for plant resistance to pathogens affecting JA biosynthesis and the activation of defenses in Arabidopsis. *Plant Cell*, **2007**, 19, 1665-81	11.6	621
98	Constitutive expression of ETHYLENE-RESPONSE-FACTOR1 in Arabidopsis confers resistance to several necrotrophic fungi. *Plant Journal*, **2002**, 29, 23-32	6.9	580
97	Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. *Cell*, **2017**, 171, 287-304.e15	56.2	538
96	DNA-binding specificities of plant transcription factors and their potential to define target genes. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 2367-72	11.5	423
95	A central regulatory system largely controls transcriptional activation and repression responses to phosphate starvation in Arabidopsis. *PLoS Genetics*, **2010**, 6, e1001102	6	408
94	Phytochrome interacting factors 4 and 5 control seedling growth in changing light conditions by directly controlling auxin signaling. *Plant Journal*, **2012**, 71, 699-711	6.9	383
93	Molecular players regulating the jasmonate signalling network. *Current Opinion in Plant Biology*, **2005**, 8, 532-40	9.9	381
92	Influence of cytokinins on the expression of phosphate starvation responsive genes in Arabidopsis. *Plant Journal*, **2000**, 24, 559-67	6.9	315

91	Arabidopsis basic helix-loop-helix transcription factors MYC2, MYC3, and MYC4 regulate glucosinolate biosynthesis, insect performance, and feeding behavior. *Plant Cell*, **2013**, 25, 3117-32	11.6	313
90	Five components of the ethylene-response pathway identified in a screen for weak ethylene-insensitive mutants in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 2992-7	11.5	312
89	The jasmonate pathway: the ligand, the receptor and the core signalling module. *Current Opinion in Plant Biology*, **2009**, 12, 539-47	9.9	248
88	A mutant of the Arabidopsis phosphate transporter PHT1;1 displays enhanced arsenic accumulation. *Plant Cell*, **2007**, 19, 1123-33	11.6	246
87	Structural basis for DNA binding specificity by the auxin-dependent ARF transcription factors. *Cell*, **2014**, 156, 577-89	56.2	243
86	PHOSPHATE TRANSPORTER TRAFFIC FACILITATOR1 is a plant-specific SEC12-related protein that enables the endoplasmic reticulum exit of a high-affinity phosphate transporter in Arabidopsis. *Plant Cell*, **2005**, 17, 3500-12	11.6	221
85	The ZIM domain mediates homo- and heteromeric interactions between Arabidopsis JAZ proteins. *Plant Journal*, **2009**, 59, 77-87	6.9	213
84	Redundancy and specificity in jasmonate signalling. *Current Opinion in Plant Biology*, **2016**, 33, 147-156	9.9	193
83	JAZ repressors set the rhythm in jasmonate signaling. *Current Opinion in Plant Biology*, **2008**, 11, 486-94	9.9	182
82	Interactions Between Signaling Compounds Involved in Plant Defense. *Journal of Plant Growth Regulation*, **2003**, 22, 82-98	4.7	177
81	Early transcriptomic events in microdissected Arabidopsis nematode-induced giant cells. *Plant Journal*, **2010**, 61, 698-712	6.9	173
80	The bacterial effector HopX1 targets JAZ transcriptional repressors to activate jasmonate signaling and promote infection in Arabidopsis. *PLoS Biology*, **2014**, 12, e1001792	9.7	163
79	Dual DNA binding specificity of a petal epidermis-specific MYB transcription factor (MYB.Ph3) from Petunia hybrida.. *EMBO Journal*, **1995**, 14, 1773-1784	13	157
78	Mutations at CRE1 impair cytokinin-induced repression of phosphate starvation responses in Arabidopsis. *Plant Journal*, **2002**, 32, 353-60	6.9	149
77	Arabidopsis homologs of a c-Jun coactivator are present both in monomeric form and in the COP9 complex, and their abundance is differentially affected by the pleiotropic cop/det/fus mutations. *Plant Cell*, **1998**, 10, 1779-90	11.6	144
76	Plant oxylipins: COI1/JAZs/MYC2 as the core jasmonic acid-signalling module. *FEBS Journal*, **2009**, 276, 4682-92	5.7	133
75	Repression of Jasmonate-Dependent Defenses by Shade Involves Differential Regulation of Protein Stability of MYC Transcription Factors and Their JAZ Repressors in Arabidopsis. *Plant Cell*, **2014**, 26, 1967-1980	11.6	125
74	Design of a bacterial speck resistant tomato by CRISPR/Cas9-mediated editing of SlJAZ2. *Plant Biotechnology Journal*, **2019**, 17, 665-673	11.6	121

73	An OPR3-independent pathway uses 4,5-didehydrojasmonate for jasmonate synthesis. *Nature Chemical Biology*, **2018**, 14, 171-178	11.7	106
72	Nuclear jasmonate and salicylate signaling and crosstalk in defense against pathogens. *Frontiers in Plant Science*, **2013**, 4, 72	6.2	106
71	Ligand-receptor co-evolution shaped the jasmonate pathway in land plants. *Nature Chemical Biology*, **2018**, 14, 480-488	11.7	105
70	Genome-wide mapping of Arabidopsis thaliana origins of DNA replication and their associated epigenetic marks. *Nature Structural and Molecular Biology*, **2011**, 18, 395-400	17.6	105
69	Improved protein-binding microarrays for the identification of DNA-binding specificities of transcription factors. *Plant Journal*, **2011**, 66, 700-11	6.9	103
68	Modulation of Plant Defenses by Ethylene. *Journal of Plant Growth Regulation*, **2007**, 26, 160-177	4.7	101
67	Cytokinin induces genome-wide binding of the type-B response regulator ARR10 to regulate growth and development in. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5995-E6004	11.5	99
66	The Venus Flytrap Dionaea muscipula Counts Prey-Induced Action Potentials to Induce Sodium Uptake. *Current Biology*, **2016**, 26, 286-95	6.3	92
65	A protein phosphatase 2A catalytic subunit is a negative regulator of abscisic acid signalling. *Plant Journal*, **2007**, 51, 763-78	6.9	85
64	Mitochondrial beta-cyanoalanine synthase is essential for root hair formation in Arabidopsis thaliana. *Plant Cell*, **2010**, 22, 3268-79	11.6	84
63	JAZ2 controls stomata dynamics during bacterial invasion. *New Phytologist*, **2017**, 213, 1378-1392	9.8	80
62	bHLH003, bHLH013 and bHLH017 are new targets of JAZ repressors negatively regulating JA responses. *PLoS ONE*, **2014**, 9, e86182	3.7	78
61	Distinct and conserved transcriptomic changes during nematode-induced giant cell development in tomato compared with Arabidopsis: a functional role for gene repression. *New Phytologist*, **2013**, 197, 1276-1290	9.8	76
60	Ethylene gas: perception, signaling and response. *Current Opinion in Plant Biology*, **1998**, 1, 393-8	9.9	72
59	The cytokinin response factors modulate root and shoot growth and promote leaf senescence in Arabidopsis. *Plant Journal*, **2016**, 85, 134-47	6.9	72
58	Rational design of a ligand-based antagonist of jasmonate perception. *Nature Chemical Biology*, **2014**, 10, 671-6	11.7	63
57	An R2R3-MYB Transcription Factor Regulates Eugenol Production in Ripe Strawberry Fruit Receptacles. *Plant Physiology*, **2015**, 168, 598-614	6.6	62
56	The TRANSPLANTA collection of Arabidopsis lines: a resource for functional analysis of transcription factors based on their conditional overexpression. *Plant Journal*, **2014**, 77, 944-53	6.9	61

55	Integrated multi-omics framework of the plant response to jasmonic acid. *Nature Plants*, **2020**, 6, 290-302	21.5	59
54	The WRKY3 Transcription Factor SlWRKY3 Is Involved in Salt Stress Tolerance in Tomato. *Frontiers in Plant Science*, **2017**, 8, 1343	6.2	57
53	A Single JAZ Repressor Controls the Jasmonate Pathway in Marchantia polymorpha. *Molecular Plant*, **2019**, 12, 185-198	14.4	55
52	FILAMENTOUS FLOWER Is a Direct Target of JAZ3 and Modulates Responses to Jasmonate. *Plant Cell*, **2015**, 27, 3160-74	11.6	55
51	A MYB/ZML Complex Regulates Wound-Induced Lignin Genes in Maize. *Plant Cell*, **2015**, 27, 3245-59	11.6	55
50	The RING E3 Ligase KEEP ON GOING Modulates JASMONATE ZIM-DOMAIN12 Stability. *Plant Physiology*, **2015**, 169, 1405-17	6.6	50
49	Genome-wide analysis of protein disorder in Arabidopsis thaliana: implications for plant environmental adaptation. *PLoS ONE*, **2013**, 8, e55524	3.7	44
48	Protein intrinsic disorder in plants. *Frontiers in Plant Science*, **2013**, 4, 363	6.2	43
47	Deciphering the Molecular Mechanisms Underpinning the Transcriptional Control of Gene Expression by Master Transcriptional Regulators in Arabidopsis Seed. *Plant Physiology*, **2016**, 171, 1099-112	6.6	43
46	Assessing the Role of ETHYLENE RESPONSE FACTOR Transcriptional Repressors in Salicylic Acid-Mediated Suppression of Jasmonic Acid-Responsive Genes. *Plant and Cell Physiology*, **2017**, 58, 266-278	4.9	41
45	The Solanum lycopersicum Zinc Finger2 cysteine-2/histidine-2 repressor-like transcription factor regulates development and tolerance to salinity in tomato and Arabidopsis. *Plant Physiology*, **2014**, 164, 1967-90	6.6	41
44	How Microbes Twist Jasmonate Signaling around Their Little Fingers. *Plants*, **2016**, 5,	4.5	41
43	The transcription factor bZIP14 regulates the TCA cycle in the diatom. *EMBO Journal*, **2017**, 36, 1559-1576	13	39
42	PIF transcription factors link a neighbor threat cue to accelerated reproduction in Arabidopsis. *Nature Communications*, **2019**, 10, 4005	17.4	39
41	A single residue substitution causes a switch from the dual DNA binding specificity of plant transcription factor MYB.Ph3 to the animal c-MYB specificity. *Journal of Biological Chemistry*, **1997**, 272, 2889-95	5.4	39
40	The Naming of Names: Guidelines for Gene Nomenclature in Marchantia. *Plant and Cell Physiology*, **2016**, 57, 257-61	4.9	38
39	Bacterial chemoattraction towards jasmonate plays a role in the entry of Dickeya dadantii through wounded tissues. *Molecular Microbiology*, **2009**, 74, 662-71	4.1	38
38	Heart-rate deflection point and the second heart-rate variability threshold during running exercise in trained boys. *Pediatric Exercise Science*, **2007**, 19, 192-204	2	38

37	Organization of repeated sequences in species of the genus Avena. *Theoretical and Applied Genetics* , **1992**, 83, 602-7	6	36
36	Isolation of RNA from laser-capture-microdissected giant cells at early differentiation stages suitable for differential transcriptome analysis. *Molecular Plant Pathology*, **2009**, 10, 523-35	5.7	33
35	Arabidopsis SWC4 Binds DNA and Recruits the SWR1 Complex to Modulate Histone H2A.Z Deposition at Key Regulatory Genes. *Molecular Plant*, **2018**, 11, 815-832	14.4	32
34	Characterization of wheat (Triticum aestivum) TIFY family and role of Triticum Durum TdTIFY11a in salt stress tolerance. *PLoS ONE*, **2018**, 13, e0200566	3.7	32
33	Jasmonate-Related MYC Transcription Factors Are Functionally Conserved in. *Plant Cell*, **2019**, 31, 2491-2509	11.6	31
32	CUL3 E3 ubiquitin ligases regulate MYC2, MYC3, and MYC4 stability and JA responses. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 6205-6215	11.5	30
31	Coordination of Chloroplast Development through the Action of the GNC and GLK Transcription Factor Families. *Plant Physiology*, **2018**, 178, 130-147	6.6	30
30	Reactome array: forging a link between metabolome and genome. *Science*, **2009**, 326, 252-7	33.3	30
29	Novel players fine-tune plant trade-offs. *Essays in Biochemistry*, **2015**, 58, 83-100	7.6	30
28	An Ancient COI1-Independent Function for Reactive Electrophilic Oxylipins in Thermotolerance. *Current Biology*, **2020**, 30, 962-971.e3	6.3	29
27	Characterization of the cytokinin-responsive transcriptome in rice. *BMC Plant Biology*, **2016**, 16, 260	5.3	27
26	A rationally designed JAZ subtype-selective agonist of jasmonate perception. *Nature Communications*, **2018**, 9, 3654	17.4	25
25	Identification of plant transcription factor target sequences. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2017**, 1860, 21-30	6	24
24	The JA-pathway MYC transcription factors regulate photomorphogenic responses by targeting HY5 gene expression. *Plant Journal*, **2020**, 102, 138-152	6.9	24
23	The fungal phytotoxin lasiojasmonate A activates the plant jasmonic acid pathway. *Journal of Experimental Botany*, **2018**, 69, 3095-3102	7	21
22	MYB.Ph3 transcription factor from Petunia hybrida induces similar DNA-bending/distortions on its two types of binding site. *Plant Journal*, **1995**, 8, 673-82	6.9	21
21	An Evolutionarily Ancient Immune System Governs the Interactions between Pseudomonas syringae and an Early-Diverging Land Plant Lineage. *Current Biology*, **2019**, 29, 2270-2281.e4	6.3	20
20	Target validation of plant microRNAs. *Methods in Molecular Biology*, **2011**, 732, 187-208	1.4	20

19	Genome-wide identification of small RNA targets based on target enrichment and microarray hybridizations. *Plant Journal*, **2009**, 59, 840-50	6.9	18
18	The fruit-specific transcription factor FaDOF2 regulates the production of eugenol in ripe fruit receptacles. *Journal of Experimental Botany*, **2017**, 68, 4529-4543	7	17
17	Potato CYCLING DOF FACTOR 1 and its lncRNA counterpart StFLORE link tuber development and drought response. *Plant Journal*, **2021**, 105, 855-869	6.9	13
16	Omega hydroxylated JA-Ile is an endogenous bioactive jasmonate that signals through the canonical jasmonate signaling pathway. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2019**, 1864, 158520	5	12
15	Pull-down analysis of interactions among jasmonic acid core signaling proteins. *Methods in Molecular Biology*, **2013**, 1011, 159-71	1.4	12
14	Isolation of Natural Fungal Pathogens from Marchantia polymorpha Reveals Antagonism between Salicylic Acid and Jasmonate during Liverwort-Fungus Interactions. *Plant and Cell Physiology*, **2020**, 61, 265-275	4.9	12
13	Characterizing the involvement of FaMADS9 in the regulation of strawberry fruit receptacle development. *Plant Biotechnology Journal*, **2020**, 18, 929-943	11.6	10
12	A new functional JAZ degron sequence in strawberry JAZ1 revealed by structural and interaction studies on the COI1-JA-Ile/COR-JAZs complexes. *Scientific Reports*, **2020**, 10, 11310	4.9	9
11	A non-DNA-binding activity for the ATHB4 transcription factor in the control of vegetation proximity. *New Phytologist*, **2017**, 216, 798-813	9.8	8
10	High-throughput analysis of protein-DNA binding affinity. *Methods in Molecular Biology*, **2014**, 1062, 697-709	1.4	6
9	Marchantia polymorpha model reveals conserved infection mechanisms in the vascular wilt fungal pathogen Fusarium oxysporum. *New Phytologist*, **2021**,	9.8	3
8	Interactions of JAZ Repressors with Anthocyanin Biosynthesis-Related Transcription Factors of Fragaria ananassa. *Agronomy*, **2020**, 10, 1586	3.6	2
7	Bacterial chemoattraction towards jasmonate plays a role in the entry of Dickeya dadantii through wounded tissues. *Molecular Microbiology*, **2009**, 74, 1543-1543	4.1	1
6	An evolutionarily ancient fatty acid desaturase is required for the synthesis of hexadecatrienoic acid, which is the main source of the bioactive jasmonate in Marchantia polymorpha. *New Phytologist*, **2021**, 233, 1401	9.8	1
5	SARS-CoV-2 Fears Green: The Chlorophyll Catabolite Pheophorbide A Is a Potent Antiviral. *Pharmaceuticals*, **2021**, 14,	5.2	1
4	Redox feedback regulation of ANAC089 signaling alters seed germination and stress response. *Cell Reports*, **2021**, 35, 109263	10.6	1
3	A small molecule antagonizes jasmonic acid perception and auxin responses in vascular and non-vascular plants		1
2	DNA features beyond the transcription factor binding site specify target recognition by plant MYC2-related bHLH proteins. *Plant Communications*, **2021**, 2, 100232	9	0

1	A small molecule antagonizes jasmonic acid perception and auxin responses in vascular and nonvascular plants. *Plant Physiology*, **2021**, 187, 1399-1413	6.6	0