Joanne Chory

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161 papers	30,632 citations	87 h-index	173 g-index
173 ext. papers	34,989 ext. citations	17.3 avg, IF	7.14 L-index

#	Paper	IF	Citations
161	A putative leucine-rich repeat receptor kinase involved in brassinosteroid signal transduction. *Cell*, **1997**, 90, 929-38	56.2	1285
160	Activation tagging of the floral inducer FT. *Science*, **1999**, 286, 1962-5	33.3	1126
159	A role for flavin monooxygenase-like enzymes in auxin biosynthesis. *Science*, **2001**, 291, 306-9	33.3	885
158	BES1 accumulates in the nucleus in response to brassinosteroids to regulate gene expression and promote stem elongation. *Cell*, **2002**, 109, 181-91	56.2	858
157	Activation tagging in Arabidopsis. *Plant Physiology*, **2000**, 122, 1003-13	6.6	813
156	Rapid synthesis of auxin via a new tryptophan-dependent pathway is required for shade avoidance in plants. *Cell*, **2008**, 133, 164-76	56.2	757
155	Nuclear-localized BZR1 mediates brassinosteroid-induced growth and feedback suppression of brassinosteroid biosynthesis. *Developmental Cell*, **2002**, 2, 505-13	10.2	749
154	Different plant hormones regulate similar processes through largely nonoverlapping transcriptional responses. *Cell*, **2006**, 126, 467-75	56.2	710
153	Light signal transduction in higher plants. *Annual Review of Genetics*, **2004**, 38, 87-117	14.5	703
152	BRI1 is a critical component of a plasma-membrane receptor for plant steroids. *Nature*, **2001**, 410, 380-3	50.4	635
151	. *Science*,	33.3	
150	dCAPS, a simple technique for the genetic analysis of single nucleotide polymorphisms: experimental applications in Arabidopsis thaliana genetics. *Plant Journal*, **1998**, 14, 387-92	6.9	589
149	A new class of transcription factors mediates brassinosteroid-regulated gene expression in Arabidopsis. *Cell*, **2005**, 120, 249-59	56.2	539
148	Signal transduction mutants of Arabidopsis uncouple nuclear CAB and RBCS gene expression from chloroplast development. *Cell*, **1993**, 74, 787-99	56.2	510
147	Binding of brassinosteroids to the extracellular domain of plant receptor kinase BRI1. *Nature*, **2005**, 433, 167-71	50.4	477
146	Coordination of gene expression between organellar and nuclear genomes. *Nature Reviews Genetics*, **2008**, 9, 383-95	30.1	470
145	Plastid-to-nucleus retrograde signaling. *Annual Review of Plant Biology*, **2006**, 57, 739-59	30.7	450

144	Interdependency of brassinosteroid and auxin signaling in Arabidopsis. *PLoS Biology*, **2004**, 2, E258	9.7	443
143	Arabidopsis thaliana mutant that develops as a light-grown plant in the absence of light. *Cell*, **1989**, 58, 991-9	56.2	422
142	Conversion of tryptophan to indole-3-acetic acid by TRYPTOPHAN AMINOTRANSFERASES OF ARABIDOPSIS and YUCCAs in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18518-23	11.5	418
141	GUN4, a regulator of chlorophyll synthesis and intracellular signaling. *Science*, **2003**, 299, 902-6	33.3	411
140	The extent of linkage disequilibrium in Arabidopsis thaliana. *Nature Genetics*, **2002**, 30, 190-3	36.3	393
139	BRL1 and BRL3 are novel brassinosteroid receptors that function in vascular differentiation in Arabidopsis. *Development (Cambridge)*, **2004**, 131, 5341-51	6.6	391
138	Network discovery pipeline elucidates conserved time-of-day-specific cis-regulatory modules. *PLoS Genetics*, **2008**, 4, e14	6	389
137	Genetic interactions between phytochrome A, phytochrome B, and cryptochrome 1 during Arabidopsis development. *Plant Physiology*, **1998**, 118, 27-35	6.6	385
136	Regulation of flowering time by light quality. *Nature*, **2003**, 423, 881-5	50.4	381
135	Perception of brassinosteroids by the extracellular domain of the receptor kinase BRI1. *Science*, **2000**, 288, 2360-3	33.3	381
134	Brassinosteroid-insensitive-1 is a ubiquitously expressed leucine-rich repeat receptor serine/threonine kinase. *Plant Physiology*, **2000**, 123, 1247-56	6.6	376
133	Light control of plant development. *Annual Review of Cell and Developmental Biology*, **1997**, 13, 203-29	12.6	371
132	PKS1, a substrate phosphorylated by phytochrome that modulates light signaling in Arabidopsis. *Science*, **1999**, 284, 1539-41	33.3	371
131	Brassinosteroids regulate dissociation of BKI1, a negative regulator of BRI1 signaling, from the plasma membrane. *Science*, **2006**, 313, 1118-22	33.3	370
130	BIN2, a new brassinosteroid-insensitive locus in Arabidopsis. *Plant Physiology*, **2001**, 127, 14-22	6.6	356
129	Linking photoreceptor excitation to changes in plant architecture. *Genes and Development*, **2012**, 26, 785-90	12.6	334
128	Molecular mechanisms of steroid hormone signaling in plants. *Annual Review of Cell and Developmental Biology*, **2005**, 21, 177-201	12.6	322
127	The epidermis both drives and restricts plant shoot growth. *Nature*, **2007**, 446, 199-202	50.4	319

126	Large-scale identification of single-feature polymorphisms in complex genomes. *Genome Research*, **2003**, 13, 513-23	9.7	307
125	Endosomal signaling of plant steroid receptor kinase BRI1. *Genes and Development*, **2007**, 21, 1598-602	12.6	302
124	Downstream nuclear events in brassinosteroid signalling. *Nature*, **2006**, 441, 96-100	50.4	302
123	Cryptochromes Interact Directly with PIFs to Control Plant Growth in Limiting Blue Light. *Cell*, **2016**, 164, 233-245	56.2	295
122	Nuclear protein phosphatases with Kelch-repeat domains modulate the response to brassinosteroids in Arabidopsis. *Genes and Development*, **2004**, 18, 448-60	12.6	289
121	Phytochrome signaling mechanisms and the control of plant development. *Trends in Cell Biology*, **2011**, 21, 664-71	18.3	281
120	Structural basis of steroid hormone perception by the receptor kinase BRI1. *Nature*, **2011**, 474, 467-71	50.4	279
119	DET1, a negative regulator of light-mediated development and gene expression in arabidopsis, encodes a novel nuclear-localized protein. *Cell*, **1994**, 78, 109-16	56.2	273
118	An Arabidopsis mutant defective in the plastid general protein import apparatus. *Science*, **1998**, 282, 100-3	33.3	261
117	Brassinosteroid perception in the epidermis controls root meristem size. *Development (Cambridge)*, **2011**, 138, 839-48	6.6	253
116	Brassinosteroids modulate the efficiency of plant immune responses to microbe-associated molecular patterns. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 297-302	11.5	238
115	Modulation of brassinosteroid-regulated gene expression by Jumonji domain-containing proteins ELF6 and REF6 in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7618-23	11.5	236
114	Natural variation in light sensitivity of Arabidopsis. *Nature Genetics*, **2001**, 29, 441-6	36.3	229
113	The phosphoenolpyruvate/phosphate translocator is required for phenolic metabolism, palisade cell development, and plastid-dependent nuclear gene expression. *Plant Cell*, **1999**, 11, 1609-22	11.6	228
112	Heme synthesis by plastid ferrochelatase I regulates nuclear gene expression in plants. *Current Biology*, **2011**, 21, 897-903	6.3	224
111	Autoregulation and homodimerization are involved in the activation of the plant steroid receptor BRI1. *Developmental Cell*, **2005**, 8, 855-65	10.2	219
110	Tyrosine phosphorylation controls brassinosteroid receptor activation by triggering membrane release of its kinase inhibitor. *Genes and Development*, **2011**, 25, 232-7	12.6	197
109	Unraveling the paradoxes of plant hormone signaling integration. *Nature Structural and Molecular Biology*, **2010**, 17, 642-5	17.6	195

108	Chemical inhibition of a subset of Arabidopsis thaliana GSK3-like kinases activates brassinosteroid signaling. *Chemistry and Biology*, **2009**, 16, 594-604		189
107	De-etiolated 1 and damaged DNA binding protein 1 interact to regulate Arabidopsis photomorphogenesis. *Current Biology*, **2002**, 12, 1462-72	6.3	188
106	Cryptochrome 1 and phytochrome B control shade-avoidance responses in Arabidopsis via partially independent hormonal cascades. *Plant Journal*, **2011**, 67, 195-207	6.9	182
105	Molecular mechanism of action of plant DRM de novo DNA methyltransferases. *Cell*, **2014**, 157, 1050-60	56.2	179
104	Arabidopsis MYB30 is a direct target of BES1 and cooperates with BES1 to regulate brassinosteroid-induced gene expression. *Plant Journal*, **2009**, 58, 275-86	6.9	176
103	An histidine covalent receptor and butenolide complex mediates strigolactone perception. *Nature Chemical Biology*, **2016**, 12, 787-794	11.7	176
102	A morning-specific phytohormone gene expression program underlying rhythmic plant growth. *PLoS Biology*, **2008**, 6, e225	9.7	174
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99	Arabidopsis HEMERA/pTAC12 initiates photomorphogenesis by phytochromes. *Cell*, **2010**, 141, 1230-40	56.2	164
98	Genome-wide patterns of single-feature polymorphism in Arabidopsis thaliana. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 12057-62	11.5	147
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86	Subset of heat-shock transcription factors required for the early response of Arabidopsis to excess light. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 14474-9	11.5	108
85	Internalization and vacuolar targeting of the brassinosteroid hormone receptor BRI1 are regulated by ubiquitination. *Nature Communications*, **2015**, 6, 6151	17.4	106
84	Methylation of a phosphatase specifies dephosphorylation and degradation of activated brassinosteroid receptors. *Science Signaling*, **2011**, 4, ra29	8.8	106
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82	Genomics tools for QTL analysis and gene discovery. *Current Opinion in Plant Biology*, **2004**, 7, 132-6	9.9	103
81	Quantitative trait loci controlling light and hormone response in two accessions of Arabidopsis thaliana. *Genetics*, **2002**, 160, 683-96	4	101
80	The growth-defense pivot: crisis management in plants mediated by LRR-RK surface receptors. *Trends in Biochemical Sciences*, **2014**, 39, 447-56	10.3	100
79	A crucial role for the putative Arabidopsis topoisomerase VI in plant growth and development. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 10191-6	11.5	98
78	New Arabidopsis cue mutants suggest a close connection between plastid- and phytochrome regulation of nuclear gene expression. *Plant Physiology*, **1998**, 118, 803-15	6.6	96
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74	Crosstalk in cellular signaling: background noise or the real thing?. *Developmental Cell*, **2011**, 21, 985-91	10.2	87
73	Stressed Out About Hormones: How Plants Orchestrate Immunity. *Cell Host and Microbe*, **2019**, 26, 163-172	17.4	85

72	Cotyledon-Generated Auxin Is Required for Shade-Induced Hypocotyl Growth in Brassica rapa. *Plant Physiology*, **2014**, 165, 1285-1301	6.6	85
71	Amino acid polymorphisms in Arabidopsis phytochrome B cause differential responses to light. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3157-62	11.5	85
70	Genetically encoded photoswitching of actin assembly through the Cdc42-WASP-Arp2/3 complex pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12797-802	11.5	83
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66	Light-response quantitative trait loci identified with composite interval and eXtreme array mapping in Arabidopsis thaliana. *Genetics*, **2004**, 167, 907-17	4	74
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64	Growth coordination and the shoot epidermis. *Current Opinion in Plant Biology*, **2008**, 11, 42-8	9.9	70
63	Co-targeting RNA Polymerases IV and V Promotes Efficient De Novo DNA Methylation in Arabidopsis. *Cell*, **2019**, 176, 1068-1082.e19	56.2	68
62	Steroid signaling in plants: from the cell surface to the nucleus. *BioEssays*, **2001**, 23, 1028-36	4.1	68
61	The epidermis coordinates auxin-induced stem growth in response to shade. *Genes and Development*, **2016**, 30, 1529-41	12.6	68
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57	Integration of Light and Photoperiodic Signaling in Transcriptional Nuclear Foci. *Developmental Cell* , **2015**, 35, 311-21	10.2	56
56	Tyrosine phosphorylation regulates the activity of phytochrome photoreceptors. *Cell Reports*, **2013** , 3, 1970-9	10.6	55
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54	Chimeric Activators and Repressors Define HY5 Activity and Reveal a Light-Regulated Feedback Mechanism. *Plant Cell*, **2020**, 32, 967-983	11.6	52
53	Mapping transcription factor interactome networks using HaloTag protein arrays. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4238-47	11.5	52
52	RNA-directed DNA methylation involves co-transcriptional small-RNA-guided slicing of polymerase V transcripts in Arabidopsis. *Nature Plants*, **2018**, 4, 181-188	11.5	51
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50	The Many Models of Strigolactone Signaling. *Trends in Plant Science*, **2020**, 25, 395-405	13.1	48
49	The Arabidopsis Transcriptome Responds Specifically and Dynamically to High Light Stress. *Cell Reports*, **2019**, 29, 4186-4199.e3	10.6	46
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44	Dancing in the dark: darkness as a signal in plants. *Plant, Cell and Environment*, **2017**, 40, 2487-2501	8.4	40
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42	GSNOR provides plant tolerance to iron toxicity via preventing iron-dependent nitrosative and oxidative cytotoxicity. *Nature Communications*, **2019**, 10, 3896	17.4	35
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35	High-Resolution Laser Scanning Reveals Plant Architectures that Reflect Universal Network Design Principles. *Cell Systems*, **2017**, 5, 53-62.e3	10.6	22
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30	A Statistical Description of Plant Shoot Architecture. *Current Biology*, **2017**, 27, 2078-2088.e3	6.3	18
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28	Mutants Are Hypersensitive to Norflurazon and Lincomycin. *Plant Physiology*, **2018**, 178, 960-964	6.6	17
27	Local HY5 Activity Mediates Hypocotyl Growth and Shoot-to-Root Communication. *Plant Communications*, **2020**, 1,	9	16
26	A hydrophobic anchor mechanism defines a deacetylase family that suppresses host response against YopJ effectors. *Nature Communications*, **2017**, 8, 2201	17.4	16
25	Epigenetic silencing of a multifunctional plant stress regulator. *ELife*, **2019**, 8,	8.9	16
24	Characterization of tub4(P287L) , a Ɛtubulin mutant, revealed new aspects of microtubule regulation in shade. *Journal of Integrative Plant Biology*, **2015**, 57, 757-69	8.3	15
23	Brassinosteroid signaling pathway. *Science's STKE: Signal Transduction Knowledge Environment*, **2006**, 2006, cm4		14
22	ZINC-FINGER interactions mediate transcriptional regulation of hypocotyl growth in. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E4503-E4511	11.5	13
21	Long-Day Photoperiod Enhances Jasmonic Acid-Related Plant Defense. *Plant Physiology*, **2018**, 178, 163-173	6.6	12
20	HY5 and phytochrome activity modulate shoot-to-root coordination during thermomorphogenesis in. *Development (Cambridge)*, **2020**, 147,	6.6	11
19	Unfolding the mysteries of strigolactone signaling. *Molecular Plant*, **2014**, 7, 934-936	14.4	11

18	Stretch-activated ion channels identified in the touch-sensitive structures of carnivorous Droseraceae plants. *ELife*, **2021**, 10,	8.9	11
17	PHYTOCHROME-INTERACTING FACTORs trigger environmentally responsive chromatin dynamics in plants. *Nature Genetics*, **2021**, 53, 955-961	36.3	11
16	Overexpression of the bacterial tryptophan oxidase RebO affects auxin biosynthesis and Arabidopsis development. *Science Bulletin*, **2016**, 61, 859-867	10.6	10
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14	A current perspective on the role of AGCVIII kinases in PIN-mediated apical hook development. *Frontiers in Plant Science*, **2015**, 6, 767	6.2	9
13	Roles for the chloroplast-localized pentatricopeptide repeat protein 30 and the Smitochondrials transcription termination factor 9 in chloroplast quality control. *Plant Journal*, **2020**, 104, 735-751	6.9	9
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11	A WW Domain-Containing Protein Forms Immune Nuclear Bodies against Begomoviruses. *Molecular Plant*, **2018**, 11, 1449-1465	14.4	8
10	Structural and chemical biology of deacetylases for carbohydrates, proteins, small molecules and histones. *Communications Biology*, **2018**, 1, 217	6.7	8
9	The Role of Phytochromes in Triggering Plant Developmental Transitions **2016**, 1-11		3
8	Image-based analysis of light-grown seedling hypocotyls in Arabidopsis. *Methods in Molecular Biology*, **2012**, 918, 1-7	1.4	2
7	Singlet Oxygen Leads to Structural Changes to Chloroplasts During their Degradation in the Arabidopsis thaliana plastid ferrochelatase two Mutant. *Plant and Cell Physiology*, **2021**,	4.9	2
6	Big Data to the Bench: Transcriptome Analysis for Undergraduates. *CBE Life Sciences Education*, **2019**, 18, ar19	3.4	1
5	Next Generation of Plant-Associated Bacterial Genome Data. *Cell Host and Microbe*, **2018**, 24, 10-11	23.4	1
4	Stretch-activated ion channels identified in the touch-sensitive structures of carnivorous Droseraceae plants		1
3	Network trade-offs and homeostasis in Arabidopsis shoot architectures. *PLoS Computational Biology*, **2019**, 15, e1007325	5	0
2	Multikingdom diffusion barrier control. *Science*, **2021**, 371, 125	33.3	0
1	An open letter to the metabolomics community: looking forward to a future of integrative plant biology. *Metabolomics*, **2013**, 9, 268-270	4.7	