Pil Joon Seo

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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.

117 papers	5,917 citations	42 h-index	75 g-index
124 ext. papers	7,651 ext. citations	6.4 avg, IF	6.21 L-index

#	Paper	IF	Citations
117	The MYB96 transcription factor mediates abscisic acid signaling during drought stress response in Arabidopsis. *Plant Physiology*, **2009**, 151, 275-89	6.6	396
116	The MYB96 transcription factor regulates cuticular wax biosynthesis under drought conditions in Arabidopsis. *Plant Cell*, **2011**, 23, 1138-52	11.6	392
115	The GIGANTEA-regulated microRNA172 mediates photoperiodic flowering independent of CONSTANS in Arabidopsis. *Plant Cell*, **2007**, 19, 2736-48	11.6	355
114	The Arabidopsis NAC transcription factor VNI2 integrates abscisic acid signals into leaf senescence via the COR/RD genes. *Plant Cell*, **2011**, 23, 2155-68	11.6	270
113	A NAC transcription factor NTL4 promotes reactive oxygen species production during drought-induced leaf senescence in Arabidopsis. *Plant Journal*, **2012**, 70, 831-44	6.9	238
112	MYB96-mediated abscisic acid signals induce pathogen resistance response by promoting salicylic acid biosynthesis in Arabidopsis. *New Phytologist*, **2010**, 186, 471-83	9.8	216
111	A self-regulatory circuit of CIRCADIAN CLOCK-ASSOCIATED1 underlies the circadian clock regulation of temperature responses in Arabidopsis. *Plant Cell*, **2012**, 24, 2427-42	11.6	203
110	Cold activation of a plasma membrane-tethered NAC transcription factor induces a pathogen resistance response in Arabidopsis. *Plant Journal*, **2010**, 61, 661-71	6.9	193
109	Exploring membrane-associated NAC transcription factors in Arabidopsis: implications for membrane biology in genome regulation. *Nucleic Acids Research*, **2007**, 35, 203-13	20.1	170
108	The SOC1-SPL module integrates photoperiod and gibberellic acid signals to control flowering time in Arabidopsis. *Plant Journal*, **2012**, 69, 577-88	6.9	162
107	Molecular and functional profiling of Arabidopsis pathogenesis-related genes: insights into their roles in salt response of seed germination. *Plant and Cell Physiology*, **2008**, 49, 334-44	4.9	151
106	Membrane-bound transcription factors in plants. *Trends in Plant Science*, **2008**, 13, 550-6	13.1	136
105	miR172 signals are incorporated into the miR156 signaling pathway at the SPL3/4/5 genes in Arabidopsis developmental transitions. *Plant Molecular Biology*, **2011**, 76, 35-45	4.6	127
104	An Arabidopsis senescence-associated protein SAG29 regulates cell viability under high salinity. *Planta*, **2011**, 233, 189-200	4.7	119
103	Expression of Arabidopsis pathogenesis-related genes during nematode infection. *Molecular Plant Pathology*, **2011**, 12, 355-64	5.7	114
102	Two splice variants of the IDD14 transcription factor competitively form nonfunctional heterodimers which may regulate starch metabolism. *Nature Communications*, **2011**, 2, 303	17.4	111
101	Modulation of sugar metabolism by an INDETERMINATE DOMAIN transcription factor contributes to photoperiodic flowering in Arabidopsis. *Plant Journal*, **2011**, 65, 418-29	6.9	105

100	HD-ZIP III activity is modulated by competitive inhibitors via a feedback loop in Arabidopsis shoot apical meristem development. *Plant Cell*, **2008**, 20, 920-33	11.6	97
99	STRESSing the role of the plant circadian clock. *Trends in Plant Science*, **2015**, 20, 230-7	13.1	94
98	Activation of a flavin monooxygenase gene YUCCA7 enhances drought resistance in Arabidopsis. *Planta*, **2012**, 235, 923-38	4.7	90
97	The MYB96-HHP module integrates cold and abscisic acid signaling to activate the CBF-COR pathway in Arabidopsis. *Plant Journal*, **2015**, 82, 962-977	6.9	84
96	Genome-scale screening and molecular characterization of membrane-bound transcription factors in Arabidopsis and rice. *Genomics*, **2010**, 95, 56-65	4.3	83
95	Systemic Immunity Requires SnRK2.8-Mediated Nuclear Import of NPR1 in Arabidopsis. *Plant Cell*, **2015**, 27, 3425-38	11.6	77
94	Multiple layers of posttranslational regulation refine circadian clock activity in Arabidopsis. *Plant Cell*, **2014**, 26, 79-87	11.6	70
93	Competitive inhibition of transcription factors by small interfering peptides. *Trends in Plant Science*, **2011**, 16, 541-9	13.1	68
92	Dynamic Epigenetic Changes during Plant Regeneration. *Trends in Plant Science*, **2018**, 23, 235-247	13.1	65
91	The E3 ubiquitin ligase HOS1 regulates Arabidopsis flowering by mediating CONSTANS degradation under cold stress. *Journal of Biological Chemistry*, **2012**, 287, 43277-87	5.4	65
90	Arabidopsis RNA-binding protein FCA regulates microRNA172 processing in thermosensory flowering. *Journal of Biological Chemistry*, **2012**, 287, 16007-16	5.4	61
89	Alternative splicing of transcription factors in plant responses to low temperature stress: mechanisms and functions. *Planta*, **2013**, 237, 1415-24	4.7	59
88	Auxin homeostasis during lateral root development under drought condition. *Plant Signaling and Behavior*, **2009**, 4, 1002-4	2.5	57
87	The Arabidopsis MIEL1 E3 ligase negatively regulates ABA signalling by promoting protein turnover of MYB96. *Nature Communications*, **2016**, 7, 12525	17.4	55
86	Signaling Peptides and Receptors Coordinating Plant Root Development. *Trends in Plant Science*, **2018**, 23, 337-351	13.1	53
85	AKIN10 delays flowering by inactivating IDD8 transcription factor through protein phosphorylation in Arabidopsis. *BMC Plant Biology*, **2015**, 15, 110	5.3	53
84	Cuticular wax biosynthesis as a way of inducing drought resistance. *Plant Signaling and Behavior*, **2011**, 6, 1043-5	2.5	53
83	The AT-hook motif-containing protein AHL22 regulates flowering initiation by modifying FLOWERING LOCUS T chromatin in Arabidopsis. *Journal of Biological Chemistry*, **2012**, 287, 15307-16	5.4	52

82	The Arabidopsis floral repressor BFT delays flowering by competing with FT for FD binding under high salinity. *Molecular Plant*, **2014**, 7, 377-87	14.4	48
81	An Arabidopsis GH3 gene, encoding an auxin-conjugating enzyme, mediates phytochrome B-regulated light signals in hypocotyl growth. *Plant and Cell Physiology*, **2007**, 48, 1236-41	4.9	47
80	Proteolytic processing of an Arabidopsis membrane-bound NAC transcription factor is triggered by cold-induced changes in membrane fluidity. *Biochemical Journal*, **2010**, 427, 359-67	3.8	45
79	MicroRNA biogenesis and function in higher plants. *Plant Biotechnology Reports*, **2009**, 3, 111-126	2.5	44
78	MYB96 recruits the HDA15 protein to suppress negative regulators of ABA signaling in Arabidopsis. *Nature Communications*, **2019**, 10, 1713	17.4	43
77	The Arabidopsis MYB96 transcription factor plays a role in seed dormancy. *Plant Molecular Biology*, **2015**, 87, 371-81	4.6	43
76	A membrane-bound NAC transcription factor as an integrator of biotic and abiotic stress signals. *Plant Signaling and Behavior*, **2010**, 5, 481-3	2.5	42
75	A Golgi-localized MATE transporter mediates iron homoeostasis under osmotic stress in Arabidopsis. *Biochemical Journal*, **2012**, 442, 551-61	3.8	42
74	The Arabidopsis MYB96 Transcription Factor Is a Positive Regulator of ABSCISIC ACID-INSENSITIVE4 in the Control of Seed Germination. *Plant Physiology*, **2015**, 168, 677-89	6.6	41
73	Histone deacetylation-mediated cellular dedifferentiation in Arabidopsis. *Journal of Plant Physiology*, **2016**, 191, 95-100	3.6	41
72	MYB96 shapes the circadian gating of ABA signaling in Arabidopsis. *Scientific Reports*, **2016**, 6, 17754	4.9	39
71	The Circadian Clock Sets the Time of DNA Replication Licensing to Regulate Growth in Arabidopsis. *Developmental Cell*, **2018**, 45, 101-113.e4	10.2	37
70	The floral repressor BROTHER OF FT AND TFL1 (BFT) modulates flowering initiation under high salinity in Arabidopsis. *Molecules and Cells*, **2011**, 32, 295-303	3.5	36
69	ATXR2 deposits H3K36me3 at the promoters of genes to facilitate cellular dedifferentiation. *Science Signaling*, **2017**, 10,	8.8	35
68	Identification and molecular characterization of a Brachypodium distachyon GIGANTEA gene: functional conservation in monocot and dicot plants. *Plant Molecular Biology*, **2010**, 72, 485-97	4.6	32
67	Preparation of leaf mesophyll protoplasts for transient gene expression in Brachypodium distachyon **2012**, 55, 390-397		26
66	The E3 Ubiquitin Ligase COP1 Regulates Thermosensory Flowering by Triggering GI Degradation in Arabidopsis. *Scientific Reports*, **2015**, 5, 12071	4.9	25
65	Recent advances in plant membrane-bound transcription factor research: emphasis on intracellular movement. *Journal of Integrative Plant Biology*, **2014**, 56, 334-42	8.3	25

64	CCA1 alternative splicing as a way of linking the circadian clock to temperature response in Arabidopsis. *Plant Signaling and Behavior*, **2012**, 7, 1194-6	2.5	25
63	JMJ30-mediated demethylation of H3K9me3 drives tissue identity changes to promote callus formation in Arabidopsis. *Plant Journal*, **2018**, 95, 961-975	6.9	24
62	Airborne signals from salt-stressed Arabidopsis plants trigger salinity tolerance in neighboring plants. *Plant Signaling and Behavior*, **2014**, 9, e28392	2.5	24
61	The MYB96 Transcription Factor Regulates Triacylglycerol Accumulation by Activating DGAT1 and PDAT1 Expression in Arabidopsis Seeds. *Plant and Cell Physiology*, **2018**, 59, 1432-1442	4.9	21
60	A competitive peptide inhibitor KIDARI negatively regulates HFR1 by forming nonfunctional heterodimers in Arabidopsis photomorphogenesis. *Molecules and Cells*, **2013**, 35, 25-31	3.5	20
59	Targeted inactivation of transcription factors by overexpression of their truncated forms in plants. *Plant Journal*, **2012**, 72, 162-72	6.9	20
58	The EC-HDA9 complex rhythmically regulates histone acetylation at the promoter in. *Communications Biology*, **2019**, 2, 143	6.7	19
57	Alternative splicing provides a proactive mechanism for the diurnal CONSTANS dynamics in Arabidopsis photoperiodic flowering. *Plant Journal*, **2017**, 89, 128-140	6.9	18
56	Natural variation in floral nectar proteins of two Nicotiana attenuata accessions. *BMC Plant Biology*, **2013**, 13, 101	5.3	17
55	RNA-Seq Analysis of the Arabidopsis Transcriptome in Pluripotent Calli. *Molecules and Cells*, **2016**, 39, 484-94	3.5	17
54	Coordination of matrix attachment and ATP-dependent chromatin remodeling regulate auxin biosynthesis and Arabidopsis hypocotyl elongation. *PLoS ONE*, **2017**, 12, e0181804	3.7	16
53	De novo shoot organogenesis during plant regeneration. *Journal of Experimental Botany*, **2020**, 71, 63-72	7	16
52	Catalyzing Initial Responses to Environmental Stresses. *Trends in Plant Science*, **2021**, 26, 849-870	13.1	16
51	LBD14/ASL17 Positively Regulates Lateral Root Formation and is Involved in ABA Response for Root Architecture in Arabidopsis. *Plant and Cell Physiology*, **2017**, 58, 2190-2201	4.9	14
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44	Targeted genome editing, an alternative tool for trait improvement in horticultural crops. *Horticulture Environment and Biotechnology*, **2016**, 57, 531-543	2	11
43	Varying Auxin Levels Induce Distinct Pluripotent States in Callus Cells. *Frontiers in Plant Science*, **2018**, 9, 1653	6.2	11
42	The MYB96 Transcription Factor Mediates ABA-Dependent Triacylglycerol Accumulation in Vegetative Tissues under Drought Stress Conditions. *Plants*, **2019**, 8,	4.5	10
41	The Evening Complex Establishes Repressive Chromatin Domains Via H2A.Z Deposition. *Plant Physiology*, **2020**, 182, 612-625	6.6	10
40	The HAF2 protein shapes histone acetylation levels of PRR5 and LUX loci in Arabidopsis. *Planta*, **2018**, 248, 513-518	4.7	10
39	Arabidopsis TOR signaling is essential for sugar-regulated callus formation. *Journal of Integrative Plant Biology*, **2017**, 59, 742-746	8.3	9
38	m6A mRNA Modification as a New Layer of Gene Regulation in Plants **2020**, 63, 97-106		9
37	Dependence and independence of the root clock on the shoot clock in Arabidopsis. *Genes and Genomics*, **2018**, 40, 1063-1068	2.1	9
36	ARABIDOPSIS TRITHORAX 4 Facilitates Shoot Identity Establishment during the Plant Regeneration Process. *Plant and Cell Physiology*, **2019**, 60, 826-834	4.9	9
35	Coordination of seed dormancy and germination processes by MYB96. *Plant Signaling and Behavior*, **2015**, 10, e1056423	2.5	8
34	Increased STM expression is associated with drought tolerance in Arabidopsis. *Journal of Plant Physiology*, **2016**, 201, 79-84	3.6	8
33	Controlled turnover of CONSTANS protein by the HOS1 E3 ligase regulates floral transition at low temperatures. *Plant Signaling and Behavior*, **2013**, 8, e23780	2.5	8
32	Activation of a mitochondrial ATPase gene induces abnormal seed development in Arabidopsis. *Molecules and Cells*, **2011**, 31, 361-9	3.5	8
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30	The Sin3-HDAC Complex Facilitates Temporal Histone Deacetylation at the and Loci for Robust Circadian Oscillation. *Frontiers in Plant Science*, **2019**, 10, 171	6.2	6
29	Get closer and make hotspots: liquid-liquid phase separation in plants. *EMBO Reports*, **2021**, 22, e51656	6.5	6

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27	The Arabidopsis E3 ubiquitin ligase HOS1 contributes to auxin biosynthesis in the control of hypocotyl elongation. *Plant Growth Regulation*, **2015**, 76, 157-165	3.2	5
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24	A novel method for high-frequency genome editing in rice, using the CRISPR/Cas9 system. *Journal of Plant Biotechnology*, **2017**, 44, 89-96	0.6	4
23	Recent advances in peptide signaling during Arabidopsis root development. *Journal of Experimental Botany*, **2021**, 72, 2889-2902	7	4
22	An Arabidopsis GH3 Gene, Encoding an Auxin-Conjugating Enzyme, Mediates Phytochrome B-Regulated Light Signals in Hypocotyl Growth. *Plant and Cell Physiology*, **2007**, 48, 1514-1514	4.9	3
21	Interaction of DGAT1 and PDAT1 to enhance TAG assembly in Arabidopsis. *Plant Signaling and Behavior*, **2019**, 14, 1554467	2.5	3
20	Optimization of protoplast regeneration in the model plant Arabidopsis thaliana. *Plant Methods*, **2021**, 17, 21	5.8	3
19	Dynamic changes in DNA methylation occur in TE regions and affect cell proliferation during leaf-to-callus transition in Arabidopsis. *Epigenetics*, **2021**, 1-18	5.7	3
18	Bidirectional regulation between circadian clock and ABA signaling. *Communicative and Integrative Biology*, **2017**, 10, e1296999	1.7	2
17	Transcriptional regulation of triacylglycerol accumulation in plants under environmental stress conditions.. *Journal of Experimental Botany*, **2022**,	7	2
16	Arabidopsis ATXR2 represses de novo shoot organogenesis in the transition from callus to shoot formation. *Cell Reports*, **2021**, 37, 109980	10.6	2
15	EAT-UpTF: Enrichment Analysis Tool for Upstream Transcription Factors of a Group of Plant Genes. *Frontiers in Genetics*, **2020**, 11, 566569	4.5	2
14	The ASHR3 SET-Domain Protein is a Pivotal Upstream Coordinator for Wound-Induced Callus Formation in Arabidopsis **2020**, 63, 361-368		1
13	Membrane-triggered plant immunity. *Plant Signaling and Behavior*, **2014**, 9, e29729	2.5	1
12	Transcription Factors: Improving Abiotic Stress Tolerance in Plants **2012**, 451-479		1
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10	Transcriptome comparison between pluripotent and non-pluripotent calli derived from mature rice seeds. *Scientific Reports*, **2020**, 10, 21257	4.9	1
9	Transcriptional activation of mediates biotic and abiotic stress signaling. *Plant Signaling and Behavior*, **2021**, 16, 1920759	2.5	1
8	The DME demethylase regulates sporophyte gene expression, cell proliferation, differentiation, and meristem resurrection. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
7	iRegNet: an integrative Regulatory Network analysis tool for Arabidopsis thaliana. *Plant Physiology*, **2021**, 187, 1292-1309	6.6	1
6	HiCORE: Hi-C Analysis for Identification of Core Chromatin Looping Regions with Higher Resolution.. *Molecules and Cells*, **2021**, 44, 883-892	3.5	1
5	Regenerating from the middle. *Nature Plants*, **2021**, 7, 1441-1442	11.5	0
4	MET1-Dependent DNA Methylation Represses Light Signaling and Influences Plant Regeneration in. *Molecules and Cells*, **2021**, 44, 746-757	3.5	0
3	Go green with plant organelle genome editing. *Molecular Plant*, **2021**, 14, 1415-1417	14.4	0
2	Overexpression of the gene inhibits shoot development.. *Plant Signaling and Behavior*, **2022**, 17, 2050095	2.5	0
1	Heat Makes Cellular Hotspots in Plants. *Molecular Plant*, **2020**, 13, 1536-1538	14.4	