

# Hyun-Sook Pai

## List of Publications by Year in descending order

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58  
papers

3,144  
citations

218677

26  
h-index

161849

54  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequence of the hot pepper provides insights into the evolution of pungency in Capsicum species. <i>Nature Genetics</i> , 2014, 46, 270-278.	21.4	867
2	Mitochondria-Associated Hexokinases Play a Role in the Control of Programmed Cell Death in <i>Nicotiana benthamiana</i> . <i>Plant Cell</i> , 2006, 18, 2341-2355.	6.6	202
3	Activation of the Programmed Cell Death Pathway by Inhibition of Proteasome Function in Plants. <i>Journal of Biological Chemistry</i> , 2003, 278, 19406-19415.	3.4	190
4	The PP2A Regulatory Subunit Tap46, a Component of the TOR Signaling Pathway, Modulates Growth and Metabolism in Plants. <i>Plant Cell</i> , 2011, 23, 185-209.	6.6	158
5	Prohibitin is involved in mitochondrial biogenesis in plants. <i>Plant Journal</i> , 2006, 46, 658-667.	5.7	118
6	Interaction of NtCDPK1 calcium-dependent protein kinase with NtRpn3 regulatory subunit of the 26S proteasome in <i>Nicotiana tabacum</i> . <i>Plant Journal</i> , 2003, 33, 825-840.	5.7	113
7	Retinoblastoma protein regulates cell proliferation, differentiation, and endoreduplication in plants. <i>Plant Journal</i> , 2005, 42, 153-163.	5.7	108
8	Depletion of UDP-d-apiose/UDP-d-xylose Synthases Results in Rhamnogalacturonan-II Deficiency, Cell Wall Thickening, and Cell Death in Higher Plants. <i>Journal of Biological Chemistry</i> , 2006, 281, 13708-13716.	3.4	86
9	DNA Gyrase Is Involved in Chloroplast Nucleoid Partitioning. <i>Plant Cell</i> , 2004, 16, 2665-2682.	6.6	80
10	Phytoalexin controls the proliferation and differentiation fates of cells in plant organ development. <i>Plant Journal</i> , 2004, 38, 969-981.	5.7	70
11	Overexpression of the PP2A regulatory subunit Tap46 leads to enhanced plant growth through stimulation of the TOR signalling pathway. <i>Journal of Experimental Botany</i> , 2015, 66, 827-840.	4.8	69
12	CHRK1, a Chitinase-Related Receptor-Like Kinase in Tobacco. <i>Plant Physiology</i> , 2000, 123, 905-916.	4.8	68
13	Hypoxia Inhibits Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand-Induced Apoptosis by Blocking Bax Translocation. <i>Cancer Research</i> , 2004, 64, 4078-4081.	0.9	64
14	EST and microarray analyses of pathogen-responsive genes in hot pepper ( <i>Capsicum annuum</i> L.) non-host resistance against soybean pustule pathogen ( <i>Xanthomonas axonopodis</i> pv. <i>glycines</i> ). <i>Functional and Integrative Genomics</i> , 2004, 4, 196-205.	3.5	56
15	Dual functions of <i>Nicotiana benthamiana</i> Rae1 in interphase and mitosis. <i>Plant Journal</i> , 2009, 59, 278-291.	5.7	56
16	InsP6-Sensitive Variants of the Gle1 mRNA Export Factor Rescue Growth and Fertility Defects of the <i>ipk1</i> Low-Phytic-Acid Mutation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 417-431.	6.6	43
17	Physiological Functions of the COPI Complex in Higher Plants. <i>Molecules and Cells</i> , 2015, 38, 866-875.	2.6	41
18	Silencing of NbBTF3 results in developmental defects and disturbed gene expression in chloroplasts and mitochondria of higher plants. <i>Planta</i> , 2007, 225, 1459-1469.	3.2	40

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19	Physiological function of <i>IspE</i> , a plastid MEP pathway gene for isoprenoid biosynthesis, in organelle biogenesis and cell morphogenesis in <i>Nicotiana benthamiana</i> . <i>Plant Molecular Biology</i> , 2008, 66, 503-517.	3.9	39
20	<i>MRF</i> Family Genes Are Involved in Translation Control, Especially under Energy-Deficient Conditions, and Their Expression and Functions Are Modulated by the TOR Signaling Pathway. <i>Plant Cell</i> , 2017, 29, 2895-2920.	6.6	36
21	Inactivation of Organellar Glutamyl- and Seryl-tRNA Synthetases Leads to Developmental Arrest of Chloroplasts and Mitochondria in Higher Plants. <i>Journal of Biological Chemistry</i> , 2005, 280, 37098-37106.	3.4	35
22	Cell Growth Defect Factor1/CHAPERONE-LIKE PROTEIN OF POR1 Plays a Role in Stabilization of Light-Dependent Protochlorophyllide Oxidoreductase in <i>Nicotiana benthamiana</i> and <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3944-3960.	6.6	35
23	Functional characterization of the ribosome biogenesis factors PES, BOP1, and WDR12 (PeBoW), and mechanisms of defective cell growth and proliferation caused by PeBoW deficiency in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 5217-5232.	4.8	33
24	Forkhead-associated Domains of the Tobacco NtFHA1 Transcription Activator and the Yeast Fhl1 Forkhead Transcription Factor Are Functionally Conserved. <i>Journal of Biological Chemistry</i> , 2002, 277, 38781-38790.	3.4	31
25	DER containing two consecutive GTP-binding domains plays an essential role in chloroplast ribosomal RNA processing and ribosome biogenesis in higher plants. <i>Journal of Experimental Botany</i> , 2014, 65, 117-130.	4.8	30
26	CHRK1, a chitinase-related receptor-like kinase, plays a role in plant development and cytokinin homeostasis in tobacco. <i>Plant Molecular Biology</i> , 2003, 53, 877-890.	3.9	29
27	Pescadillo plays an essential role in plant cell growth and survival by modulating ribosome biogenesis. <i>Plant Journal</i> , 2013, 76, 393-405.	5.7	29
28	Functional characterization of NtCEF1, an AP2/EREBP-type transcriptional activator highly expressed in tobacco callus. <i>Planta</i> , 2005, 222, 211-224.	3.2	27
29	The nucleolar GTPase nucleostemin-like 1 plays a role in plant growth and senescence by modulating ribosome biogenesis. <i>Journal of Experimental Botany</i> , 2015, 66, 6297-6310.	4.8	27
30	Expression of a novel tobacco gene, NgCDM1, is preferentially associated with pathogen-induced cell death. <i>Physiological and Molecular Plant Pathology</i> , 2003, 62, 227-235.	2.5	26
31	Light-stabilized FHA2 suppresses miRNA biogenesis through interactions with DCL1 and HYL1. <i>Molecular Plant</i> , 2021, 14, 647-663.	8.3	26
32	Suppression of the ER-Localized AAA ATPase NgCDC48 Inhibits Tobacco Growth and Development. <i>Molecules and Cells</i> , 2009, 28, 57-66.	2.6	24
33	In vivo effects of NbSiR silencing on chloroplast development in <i>Nicotiana benthamiana</i> . <i>Plant Molecular Biology</i> , 2010, 72, 569-583.	3.9	24
34	S1 domain-containing STF modulates plastid transcription and chloroplast biogenesis in <i>Nicotiana benthamiana</i> . <i>New Phytologist</i> , 2012, 193, 349-363.	7.3	24
35	Characterization of in vivo functions of <i>Nicotiana benthamiana</i> RabE1. <i>Planta</i> , 2013, 237, 161-172.	3.2	20
36	Characterization of Maf1 in <i>Arabidopsis</i> : function under stress conditions and regulation by the TOR signaling pathway. <i>Planta</i> , 2019, 249, 527-542.	3.2	20

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37	Functional characterization of chaperonin containing T-complex polypeptide-1 and its conserved and novel substrates in Arabidopsis. <i>Journal of Experimental Botany</i> , 2019, 70, 2741-2757.	4.8	19
38	A chloroplast-targeted pentatricopeptide repeat protein PPR287 is crucial for chloroplast function and Arabidopsis development. <i>BMC Plant Biology</i> , 2019, 19, 244.	3.6	18
39	Comparative microarray analysis of programmed cell death induced by proteasome malfunction and hypersensitive response in plants. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 514-521.	2.1	17
40	A nuclear-encoded chloroplast-targeted S1 rRNA-binding domain protein affects chloroplast rRNA processing and is crucial for the normal growth of <i>Arabidopsis thaliana</i> .	5.7	17
41	Silencing of NbECR encoding a putative enoyl-CoA reductase results in disorganized membrane structures and epidermal cell ablation in <i>Nicotiana benthamiana</i> . <i>FEBS Letters</i> , 2005, 579, 4459-4464.	2.8	16
42	The subfamily II catalytic subunits of protein phosphatase 2A (PP2A) are involved in cortical microtubule organization. <i>Planta</i> , 2018, 248, 1551-1567.	3.2	15
43	Silencing of a BYPASS1 homolog results in root-independent pleiotrophic developmental defects in <i>Nicotiana benthamiana</i> . <i>Plant Molecular Biology</i> , 2008, 68, 423-437.	3.9	13
44	The forkhead-associated domain 2 (FHA2) in Arabidopsis plays a role in plant fertility by regulating stamen development. <i>Planta</i> , 2013, 237, 1015-1023.	3.2	12
45	A novel dual-specificity protein kinase targeted to the chloroplast in tobacco1. <i>FEBS Letters</i> , 2001, 497, 124-130.	2.8	10
46	PRBP plays a role in plastid ribosomal RNA maturation and chloroplast biogenesis in <i>Nicotiana benthamiana</i> . <i>Planta</i> , 2011, 233, 1073-1085.	3.2	8
47	Functional characterization of chloroplast-targeted RbgA GTPase in higher plants. <i>Plant Molecular Biology</i> , 2017, 95, 463-479.	3.9	8
48	Mobile Macromolecules in Plant Development. <i>Journal of Plant Biology</i> , 2009, 52, 186-192.	2.1	7
49	Silencing of NbCEP1 Encoding a Chloroplast Envelope Protein Containing 15 Leucine-Rich-Repeats Disrupts Chloroplast Biogenesis in <i>Nicotiana benthamiana</i> . <i>Molecules and Cells</i> , 2010, 29, 175-184.	2.6	6
50	Molecular characterization of NbPAF encoding the alpha6 subunit of the 20S proteasome in <i>Nicotiana benthamiana</i> . <i>Molecules and Cells</i> , 2003, 15, 127-32.	2.6	6
51	Molecular functions of the PP2A regulatory subunit Tap46 in plants. <i>Plant Signaling and Behavior</i> , 2011, 6, 1067-1068.	2.4	5
52	Chaperone-like protein DAY plays critical roles in photomorphogenesis. <i>Nature Communications</i> , 2021, 12, 4194.	12.8	5
53	Characterization of Cell Death Induced by NbBPSI Silencing in <i>Nicotiana benthamiana</i> . <i>Molecules and Cells</i> , 2012, 34, 185-192.	2.6	4
54	Heterologous Expression of Der Homologs in an <i>Escherichia coli</i> der Mutant and Their Functional Complementation. <i>Journal of Bacteriology</i> , 2016, 198, 2284-2296.	2.2	4

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55	The in vivo functions of ARPF2 and ARRS1 in ribosomal RNA processing and ribosome biogenesis in Arabidopsis. <i>Journal of Experimental Botany</i> , 2020, 71, 2596-2611.	4.8	4
56	Interaction of PRK1 Receptor-like Kinase with a Putative eIF2B $\hat{1}^2$ -Subunit in Tobacco. <i>Molecules and Cells</i> , 2000, 10, 626-632.	2.6	3
57	Silencing of <i>Nicotiana benthamiana</i> Neuroblastoma-Amplified Gene causes ER stress and cell death. <i>BMC Plant Biology</i> , 2013, 13, 69.	3.6	3
58	Molecular Characterization of NLP Function in <i>Nicotiana benthamiana</i> . <i>Journal of Plant Biology</i> , 2011, 54, 199-208.	2.1	0