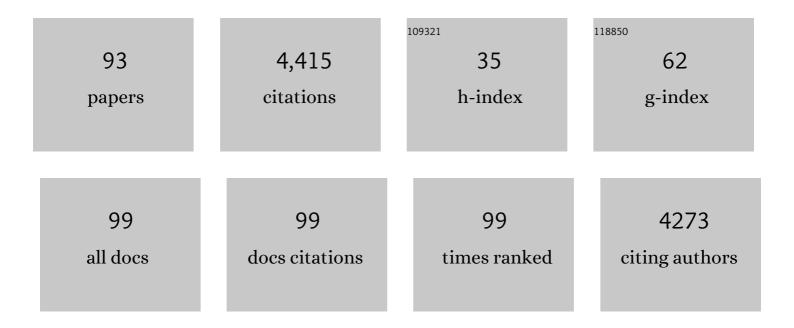
Raquel L Chan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The true story of the HD-Zip family. Trends in Plant Science, 2007, 12, 419-426.	8.8	508
2	Transcriptional Control of a Plant Stem Cell Niche. Developmental Cell, 2010, 18, 841-853.	7.0	221
3	Homeoboxes in plant development. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1442, 1-19.	2.4	192
4	Cross-talk between ethylene and drought signalling pathways is mediated by the sunflower Hahb-4 transcription factor. Plant Journal, 2006, 48, 125-137.	5.7	169
5	Environmental Regulation of Lateral Root Emergence in <i>Medicago truncatula</i> Requires the HD-Zip I Transcription Factor HB1. Plant Cell, 2010, 22, 2171-2183.	6.6	156
6	Two Direct Targets of Cytokinin Signaling Regulate Symbiotic Nodulation in <i>Medicago truncatula</i> À Â. Plant Cell, 2012, 24, 3838-3852.	6.6	136
7	Hahb-4, a sunflower homeobox-leucine zipper gene, is a developmental regulator and confers drought tolerance to Arabidopsis thaliana plants. Transgenic Research, 2005, 14, 429-440.	2.4	134
8	Arabidopsis AtHB7 and AtHB12evolved divergently to fine tune processes associated with growth and responses to water stress. BMC Plant Biology, 2014, 14, 150.	3.6	120
9	Role of recently evolved miRNA regulation of sunflower <i>HaWRKY6</i> in response to temperature damage. New Phytologist, 2012, 195, 766-773.	7.3	118
10	The rice transcription factor OsWRKY47 is a positive regulator of the response to water deficit stress. Plant Molecular Biology, 2015, 88, 401-413.	3.9	92
11	Redox Regulation of Plant Homeodomain Transcription Factors. Journal of Biological Chemistry, 2002, 277, 34800-34807.	3.4	86
12	HAHB4, a sunflower HDâ€Zip protein, integrates signals from the jasmonic acid and ethylene pathways during wounding and biotic stress responses. Plant Journal, 2008, 56, 376-388.	5.7	85
13	Hahb-4 , a homeobox-leucine zipper gene potentially involved in abscisic acid-dependent responses to water stress in sunflower*. Plant, Cell and Environment, 2002, 25, 633-640.	5.7	84
14	A Predictive Coexpression Network Identifies Novel Genes Controlling the Seed-to-Seedling Phase Transition in <i>Arabidopsis thaliana</i> . Plant Physiology, 2016, 170, 2218-2231.	4.8	83
15	The homologous HDâ€Zip I transcription factors HaHB1 and AtHB13 confer cold tolerance via the induction of pathogenesisâ€related and glucanase proteins. Plant Journal, 2012, 69, 141-153.	5.7	80
16	Field-grown transgenic wheat expressing the sunflower gene <i>HaHB4</i> significantly outyields the wild type. Journal of Experimental Botany, 2019, 70, 1669-1681.	4.8	78
17	The homologous homeodomainâ€leucine zipper transcription factors HaHB1 and AtHB13 confer tolerance to drought and salinity stresses via the induction of proteins that stabilize membranes. Plant Biotechnology Journal, 2012, 10, 815-825.	8.3	75
18	Uncharacterized conserved motifs outside the HD-Zip domain in HD-Zip subfamily I transcription factors; a potential source of functional diversity. BMC Plant Biology, 2011, 11, 42.	3.6	70

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19	<i>Arabidopsis thaliana</i> HomeoBox 1 (At <scp>HB</scp> 1), a Homedomain‣eucine Zipper I (<scp>HD</scp> â€Zip I) transcription factor, is regulated by PHYTOCHROMEâ€INTERACTING FACTOR 1 to promote hypocotyl elongation. New Phytologist, 2015, 207, 669-682.	7.3	69
20	A monomer–dimer equilibrium modulates the interaction of the sunflower homeodomain leucine-zipper protein Hahb-4 with DNA. Biochemical Journal, 1999, 341, 81-87.	3.7	68
21	HAHB10, a sunflower HD-Zip II transcription factor, participates in the induction of flowering and in the control of phytohormone-mediated responses to biotic stress. Journal of Experimental Botany, 2011, 62, 1061-1076.	4.8	68
22	Plant transcription factors from the homeodomainâ€leucine zipper family I. Role in development and stress responses. IUBMB Life, 2017, 69, 280-289.	3.4	63
23	The sunflower transcription factor HaWRKY76 confers drought and flood tolerance to Arabidopsis thaliana plants without yield penalty. Plant Cell Reports, 2015, 34, 2065-2080.	5.6	60
24	JUNGBRUNNEN1 Confers Drought Tolerance Downstream of the HD-Zip I Transcription Factor AtHB13. Frontiers in Plant Science, 2017, 8, 2118.	3.6	55
25	Transient transformation of sunflower leaf discs via an Agrobacterium-mediated method: applications for gene expression and silencing studies. Nature Protocols, 2009, 4, 1699-1707.	12.0	54
26	A monomer‒dimer equilibrium modulates the interaction of the sunflower homeodomain leucine-zipper protein Hahb-4 with DNA. Biochemical Journal, 1999, 341, 81.	3.7	51
27	The leader intron of Arabidopsis thaliana genes encoding cytochrome c oxidase subunit 5c promotes high-level expression by increasing transcript abundance and translation efficiency. Journal of Experimental Botany, 2005, 56, 2563-2571.	4.8	51
28	Functional characterization of the homeodomain leucine zipper I transcription factor AtHB13 reveals a crucial role in <i>Arabidopsis</i> development. Journal of Experimental Botany, 2015, 66, 5929-5943.	4.8	48
29	Hahb-10, a Sunflower Homeobox-Leucine Zipper Gene, is Regulated by Light Quality and Quantity, and Promotes Early Flowering when Expressed in Arabidopsis. Plant and Cell Physiology, 2005, 46, 1954-1963.	3.1	46
30	Plant homeodomain-leucine zipper I transcription factors exhibit different functional AHA motifs that selectively interact with TBP or/and TFIIB. Plant Cell Reports, 2014, 33, 955-967.	5.6	42
31	The sunflower transcription factor HaHB11 improves yield, biomass and tolerance to flooding in transgenic Arabidopsis plants. Journal of Biotechnology, 2016, 222, 73-83.	3.8	42
32	Successful field performance in warm and dry environments of soybean expressing the sunflower transcription factor HB4. Journal of Experimental Botany, 2020, 71, 3142-3156.	4.8	41
33	Nicotiana attenuata NaHD20 plays a role in leaf ABA accumulation during water stress, benzylacetone emission from flowers, and the timing of bolting and flower transitions. Journal of Experimental Botany, 2011, 62, 155-166.	4.8	40
34	A uORF Represses the Transcription Factor AtHB1 in Aerial Tissues to Avoid a Deleterious Phenotype. Plant Physiology, 2017, 175, 1238-1253.	4.8	40
35	The LOB-like transcription factor MtLBD1 controls <i>Medicago truncatula</i> root architecture under salt stress. Plant Signaling and Behavior, 2010, 5, 1666-1668.	2.4	39
36	Positively charged residues at the N-terminal arm of the homeodomain are required for efficient DNA binding by homeodomain-leucine zipper proteins11Edited by M. Yaniv. Journal of Molecular Biology, 2001, 308, 39-47.	4.2	37

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37	Metabolic regulation of genes encoding cytochrome c and cytochrome c oxidase subunit Vb in Arabidopsis. Plant, Cell and Environment, 2002, 25, 1605-1615.	5.7	37
38	InEuglena, spliced-leader RNA (SL-RNA) and 5S rRNA genes are tandemly repeated. Nucleic Acids Research, 1992, 20, 1711-1715.	14.5	36
39	Combinatorial interactions of two amino acids with a single base pair define target site specificity in plant dimeric homeodomain proteins. Nucleic Acids Research, 2001, 29, 4866-4872.	14.5	36
40	The promoter of the sunflower HD-Zip protein gene Hahb4 directs tissue-specific expression and is inducible by water stress, high salt concentrations and ABA. Plant Science, 2005, 169, 447-456.	3.6	36
41	The sunflower HD-Zip transcription factor HAHB4 is up-regulated in darkness, reducing the transcription of photosynthesis-related genes. Journal of Experimental Botany, 2008, 59, 3143-3155.	4.8	36
42	Post-transcriptional regulation by light of the biosynthesis ofEuglena ribulose-1,5-bisphosphate carboxylase/oxygenase small subunit. Plant Molecular Biology, 1991, 17, 73-82.	3.9	35
43	Isolation and sequencing of an active-site peptide from spinach ferredoxin-NADP+ oxidoreductase after affinity labeling with periodate-oxidized NADP+. Archives of Biochemistry and Biophysics, 1985, 240, 172-177.	3.0	34
44	The promoter of the Arabidopsis nuclear gene COX5b-1, encoding subunit 5b of the mitochondrial cytochrome c oxidase, directs tissue-specific expression by a combination of positive and negative regulatory elements. Journal of Experimental Botany, 2004, 55, 1997-2004.	4.8	33
45	A role for LAX2 in regulating xylem development and lateral-vein symmetry in the leaf. Annals of Botany, 2017, 120, 577-590.	2.9	33
46	Expression analyses indicate the involvement of sunflower WRKY transcription factors in stress responses, and phylogenetic reconstructions reveal the existence of a novel clade in the Asteraceae. Plant Science, 2010, 178, 398-410.	3.6	32
47	Interaction between proteins containing homeodomains associated to leucine zippers from sunflower. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1351, 137-149.	2.4	29
48	A matter of quantity: Common features in the drought response of transgenic plants overexpressing HD-Zip I transcription factors. Plant Science, 2016, 251, 139-154.	3.6	28
49	The sunflower transcription factor HaHB11 confers tolerance to water deficit and salinity to transgenic Arabidopsis and alfalfa plants. Journal of Biotechnology, 2017, 257, 35-46.	3.8	28
50	A sunflower WRKY transcription factor stimulates the mobilization of seed-stored reserves during germination and post-germination growth. Plant Cell Reports, 2016, 35, 1875-1890.	5.6	27
51	An Interdisciplinary Approach to Study the Performance of Second-generation Genetically Modified Crops in Field Trials: A Case Study With Soybean and Wheat Carrying the Sunflower HaHB4 Transcription Factor. Frontiers in Plant Science, 2020, 11, 178.	3.6	26
52	The intron of the Arabidopsis thaliana COX5c gene is able to improve the drought tolerance conferred by the sunflower Hahb-4 transcription factor. Planta, 2007, 226, 1143-1154.	3.2	25
53	Nuclear and mitochondrial genes encoding cytochrome c oxidase subunits respond differently to the same metabolic factors. Plant Physiology and Biochemistry, 2003, 41, 689-693.	5.8	24
54	AtHB23 participates in the gene regulatory network controlling root branching, and reveals differences between secondary and tertiary roots. Plant Journal, 2019, 100, 1224-1236.	5.7	24

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55	Trimeric structure and other properties of the chloroplast reductase binding protein. FEBS Letters, 1985, 190, 165-168.	2.8	23
56	A cDNA Encoding an HD-Zip Protein from Sunflower. Plant Physiology, 1994, 106, 1687-1688.	4.8	23
57	Cell-Type-Specific Expression of Plant Cytochrome cmRNA in Developing Flowers and Roots. Plant Physiology, 2001, 125, 1603-1610.	4.8	23
58	Expression of Sunflower Homeodomain Containing Proteins inEscherichia coli:Purification and Functional Studies. Protein Expression and Purification, 1998, 13, 97-103.	1.3	22
59	Two ABREs, two redundant root-specific and one W-box cis-acting elements are functional in the sunflower HAHB4 promoter. Plant Physiology and Biochemistry, 2008, 46, 860-867.	5.8	21
60	The underground life of homeodomain-leucine zipper transcription factors. Journal of Experimental Botany, 2021, 72, 4005-4021.	4.8	21
61	Immunological studies of the binding protein for chloroplast ferredoxin-NADP+ reductase. Archives of Biochemistry and Biophysics, 1987, 253, 56-61.	3.0	17
62	Patents on Plant Transcription Factors. Recent Patents on Biotechnology, 2008, 2, 209-217.	0.8	17
63	The antagonistic basic helix-loop-helix partners BEE and IBH1 contribute to control plant tolerance to abiotic stress. Plant Science, 2018, 271, 143-150.	3.6	17
64	Screening cDNA libraries by PCR using $\hat{\sf l} {\sf w}$ sequencing primers and degenerate oligonucleotides. Trends in Genetics, 1993, 9, 231-232.	6.7	16
65	Isolation and expression pattern of hahr1, a homeobox-containing cDNA from Helianthus annuus. Gene, 1997, 196, 61-68.	2.2	16
66	Identification of three MADS-box genes expressed in sunflower capitulum. Journal of Experimental Botany, 2003, 54, 1637-1639.	4.8	16
67	RNAi-mediated silencing of the HD-Zip gene HD20 in Nicotiana attenuata affects benzyl acetone emission from corollas via ABA levels and the expression of metabolic genes. BMC Plant Biology, 2012, 12, 60.	3.6	16
68	Site-directed mutagenesis and footprinting analysis of the interaction of the sunflower KNOX protein HAKN1 with DNA. FEBS Journal, 2004, 272, 190-202.	4.7	15
69	The AtHB1 Transcription Factor Controls the miR164-CUC2 Regulatory Node to Modulate Leaf Development. Plant and Cell Physiology, 2020, 61, 659-670.	3.1	15
70	TheEuglena gracilis rbcSgene contains introns with unusual borders. FEBS Letters, 1992, 304, 252-255.	2.8	13
71	Knotted1-like genes are strongly expressed in differentiated cell types in sunflower. Journal of Experimental Botany, 2003, 54, 681-690.	4.8	13
72	Arabidopsis and sunflower plants with increased xylem area show enhanced seed yield. Plant Journal, 2019, 99, 717-732.	5.7	13

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73	Why are second-generation transgenic crops not yet available in the market?. Journal of Experimental Botany, 2020, 71, 6876-6880.	4.8	13
74	Affinity labeling of spinach ferredoxin-NADP+ oxidoreductase with periodate-oxidized NADP+. Archives of Biochemistry and Biophysics, 1984, 229, 340-347.	3.0	11
75	Expression of sunflower cytochrome c mRNA is tissue-specific and controlled by nitrate and light. Physiologia Plantarum, 1997, 99, 342-347.	5.2	11
76	Genes encoding cytochrome c oxidase subunit 5c from sunflower (Helianthus annuus L.) are regulated by nitrate and oxygen availability. Plant Science, 2002, 163, 897-905.	3.6	10
77	A novel type of dimerization motif, related to leucine zippers, is present in plant homeodomain proteins. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1352, 203-212.	2.4	9
78	Maize expressing the sunflower transcription factor HaHB11 has improved productivity in controlled and field conditions. Plant Science, 2019, 287, 110185.	3.6	9
79	Lateral root development differs between main and secondary roots and depends on the ecotype. Plant Signaling and Behavior, 2020, 15, 1755504.	2.4	9
80	The Cytochrome c Gene from the Green Alga Chlamydomonas reinhardtii. Structure and Expression in Wild-Type Cells and in Obligate Photoautotrophic (dk) Mutants. Plant and Cell Physiology, 2000, 41, 1149-1156.	3.1	7
81	Site-directed mutagenesis and footprinting analysis of the interaction of the sunflower KNOX protein HAKN1 with DNA. FEBS Journal, 2005, 272, 190-202.	4.7	7
82	Expressing the sunflower transcription factor HaHB11 in maize improves waterlogging and defoliation tolerance. Plant Physiology, 2022, 189, 230-247.	4.8	7
83	Homeodomain–Leucine Zipper Transcription Factors: Structural Features of These Proteins, Unique to Plants. , 2016, , 113-126.		6
84	<i>Arabidopsis thaliana homeodomain-leucine zipper type I</i> transcription factors contribute to control leaf venation patterning. Plant Signaling and Behavior, 2018, 13, e1448334.	2.4	6
85	Homeodomain-leucine Zipper Proteins Interact with a Plant Homologue of the Transcriptional Co-activator Multiprotein Bridging Factor 1. BMB Reports, 2004, 37, 320-334.	2.4	6
86	A fast and sensitive micromethod for the manual sequencing of peptides using O-phthalaldehyde as derivatizing reagent. Journal of Proteomics, 1984, 10, 49-54.	2.4	5
87	Key role of the motor protein Kinesin 13B in the activity of homeodomain-leucine zipper I transcription factors. Journal of Experimental Botany, 2020, 71, 6282-6296.	4.8	4
88	The transcription factor AtHB23 modulates starch turnover for root development and plant survival under salinity. Environmental and Experimental Botany, 2022, 201, 104994.	4.2	4
89	What Do We Know about Homeodomain–Leucine Zipper I Transcription Factors? Functional and Biotechnological Considerations. , 2016, , 343-356.		3
90	The Arabidopsis transcription factors AtPHL1 and AtHB23 act together promoting carbohydrate transport from pedicel-silique nodes to seeds. Plant Science, 2022, 315, 111133.	3.6	3

91Expression of sunflower cytochrome c mRNA is tissue-specific and controlled by nitrate and light. Physiologia Plantarum, 1997, 99, 342-347.5.2292Plant science with relevance to biotechnology. Journal of Biotechnology, 2014, 174, iv.3.81Biosynthesis and Distribution of the Ferredoxin-NADP Oxidoreductase Binding Protein	#	Article	IF	CITATIONS
	91	Expression of sunflower cytochrome c mRNA is tissue-specific and controlled by nitrate and light. Physiologia Plantarum, 1997, 99, 342-347.	5.2	2
Biosynthesis and Distribution of the Ferredoxin-NADP Oxidoreductase Binding Protein 1990	92	Plant science with relevance to biotechnology. Journal of Biotechnology, 2014, 174, iv.	3.8	1
⁹³ 1831-1834. 0	93	Biosynthesis and Distribution of the Ferredoxin-NADP Oxidoreductase Binding Protein. , 1990, , 1831-1834.		0