

# Kai-Wun Yeh

## List of Publications by Year in descending order

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60  
papers

2,140  
citations

172457

29  
h-index

243625

44  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional activity of sporamin from sweet potato ( <i>Ipomoea batatas</i> Lam.): a tuber storage protein with trypsin inhibitory activity. <i>Plant Molecular Biology</i> , 1997, 33, 565-570.	3.9	145
2	Growth Promotion of Chinese Cabbage and <i>Arabidopsis</i> by <i>Piriformospora indica</i> Is Not Stimulated by Mycelium-Synthesized Auxin. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 421-431.	2.6	130
3	Transplastomic <i>Nicotiana benthamiana</i> plants expressing multiple defence genes encoding protease inhibitors and chitinase display broad-spectrum resistance against insects, pathogens and abiotic stresses. <i>Plant Biotechnology Journal</i> , 2014, 12, 503-515.	8.3	107
4	Genetically pyramiding protease-inhibitor genes for dual broad-spectrum resistance against insect and phytopathogens in transgenic tobacco. <i>Plant Biotechnology Journal</i> , 2010, 8, 65-75.	8.3	99
5	Differential expression of MYB gene (OgMYB1) determines color patterning in floral tissue of <i>Oncidium Gower Ramsey</i> . <i>Plant Molecular Biology</i> , 2008, 66, 379-388.	3.9	95
6	The beneficial fungus <i>Piriformospora indica</i> protects <i>Arabidopsis</i> from <i>Verticillium dahliae</i> infection by downregulation plant defense responses. <i>BMC Plant Biology</i> , 2014, 14, 268.	3.6	84
7	Differential expression of carotenoid-related genes determines diversified carotenoid coloration in floral tissues of <i>Oncidium</i> cultivars. <i>Planta</i> , 2010, 232, 937-948.	3.2	82
8	Sporamin-mediated resistance to beet cyst nematodes ( <i>Heterodera schachtii</i> Schm.) is dependent on trypsin inhibitory activity in sugar beet ( <i>Beta vulgaris</i> L.) hairy roots. <i>Plant Molecular Biology</i> , 2003, 51, 839-849.	3.9	73
9	<i>Piriformospora indica</i> symbiosis improves water stress tolerance of rice through regulating stomata behavior and ROS scavenging systems. <i>Plant Signaling and Behavior</i> , 2020, 15, 1722447.	2.4	56
10	Methylation effect on chalcone synthase gene expression determines anthocyanin pigmentation in floral tissues of two <i>Oncidium</i> orchid cultivars. <i>Planta</i> , 2012, 236, 401-409.	3.2	55
11	Metabolomic compounds identified in <i>Piriformospora indica</i> -colonized Chinese cabbage roots delineate symbiotic functions of the interaction. <i>Scientific Reports</i> , 2017, 7, 9291.	3.3	53
12	Heterologous expression of taro cystatin protects transgenic tomato against <i>Meloidogyne incognita</i> infection by means of interfering sex determination and suppressing gall formation. <i>Plant Cell Reports</i> , 2010, 29, 231-238.	5.6	52
13	Sweet potato <i>NAC</i> transcription factor, <i>NAC1</i> , upregulates <i>sporamin</i> gene expression by binding the <i>SWRE</i> motif against mechanical wounding and herbivore attack. <i>Plant Journal</i> , 2016, 86, 234-248.	5.7	51
14	Growth Promotion-Related miRNAs in <i>Oncidium</i> Orchid Roots Colonized by the Endophytic Fungus <i>Piriformospora indica</i> . <i>PLoS ONE</i> , 2014, 9, e84920.	2.5	48
15	Wound-response regulation of the sweet potato sporamin gene promoter region. <i>Plant Molecular Biology</i> , 2002, 48, 223-231.	3.9	46
16	Carbohydrate mobilization and gene regulatory profile in the pseudobulb of <i>Oncidium</i> orchid during the flowering process. <i>Planta</i> , 2008, 227, 1063-1077.	3.2	45
17	Volatile DMNT systemically induces jasmonate-independent direct anti-herbivore defense in leaves of sweet potato ( <i>Ipomoea batatas</i> ) plants. <i>Scientific Reports</i> , 2019, 9, 17431.	3.3	40
18	Multiple biological functions of sporamin related to stress tolerance in sweet potato ( <i>Ipomoea</i> )	11.7	39

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19	Crystal structure of tarocystatin-papain complex: implications for the inhibition property of group-2 phytocystatins. <i>Planta</i> , 2011, 234, 243-254.	3.2	38
20	Growth promotion and disease resistance induced in <i>Anthurium</i> colonized by the beneficial root endophyte <i>Piriformospora indica</i> . <i>BMC Plant Biology</i> , 2019, 19, 40.	3.6	38
21	Molecular characterization and expression of starch granule-bound starch synthase in the sink and source tissues of sweet potato. <i>Physiologia Plantarum</i> , 1999, 106, 253-261.	5.2	37
22	Characterization of inhibitory mechanism and antifungal activity between group 1 and group 2 phytocystatins from taro ( <i>Colocasia esculenta</i> ). <i>FEBS Journal</i> , 2008, 275, 4980-4989.	4.7	37
23	WRKY6 restricts <i>Piriformospora indica</i> -stimulated and phosphate-induced root development in <i>Arabidopsis</i> . <i>BMC Plant Biology</i> , 2015, 15, 305.	3.6	35
24	New gene construction strategy in T-DNA vector to enhance expression level of sweet potato sporamin and insect resistance in transgenic <i>Brassica oleracea</i> . <i>Plant Science</i> , 2006, 171, 367-374.	3.6	34
25	Pyramiding taro cystatin and fungal chitinase genes driven by a synthetic promoter enhances resistance in tomato to root-knot nematode <i>Meloidogyne incognita</i> . <i>Plant Science</i> , 2015, 231, 74-81.	3.6	33
26	Plant Cytosolic Ascorbate Peroxidase with Dual Catalytic Activity Modulates Abiotic Stress Tolerances. <i>IScience</i> , 2019, 16, 31-49.	4.1	33
27	Molecular cloning, characterization and gene expression of a water deficiency and chilling induced proteinase inhibitor I gene family from sweet potato ( <i>Ipomoea batatas</i> Lam.) leaves. <i>Plant Science</i> , 2003, 165, 191-203.	3.6	32
28	Decreased L-Ascorbate Content Mediating Bolting is Mainly Regulated by the Galacturonate Pathway in <i>Oncidium</i> . <i>Plant and Cell Physiology</i> , 2009, 50, 935-946.	3.1	31
29	A Chinese cabbage ( <i>Brassica campestris</i> subsp. <i>Chinensis</i> ) $\gamma$ -type glutathione-S-transferase stimulates <i>Arabidopsis</i> development and primes against abiotic and biotic stress. <i>Plant Molecular Biology</i> , 2016, 92, 643-659.	3.9	31
30	The Endophytic Fungus <i>Piriformospora indica</i> Reprograms Banana to Cold Resistance. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4973.	4.1	31
31	<i>Piriformospora indica</i> colonization increases the growth, development, and herbivory resistance of sweet potato ( <i>Ipomoea batatas</i> L.). <i>Plant Cell Reports</i> , 2021, 40, 339-350.	5.6	30
32	Site-directed mutagenesis evidence for a negatively charged trypsin inhibitory loop in sweet potato sporamin. <i>FEBS Letters</i> , 2001, 496, 134-138.	2.8	29
33	Differential activation of sporamin expression in response to abiotic mechanical wounding and biotic herbivore attack in the sweet potato. <i>BMC Plant Biology</i> , 2014, 14, 112.	3.6	29
34	<i>Piriformospora indica</i> Reprograms Gene Expression in <i>Arabidopsis</i> Phosphate Metabolism Mutants But Does Not Compensate for Phosphate Limitation. <i>Frontiers in Microbiology</i> , 2017, 8, 1262.	3.5	29
35	The Sweet Potato NAC-Domain Transcription Factor IbNAC1 Is Dynamically Coordinated by the Activator IbbHLH3 and the Repressor IbbHLH4 to Reprogram the Defense Mechanism against Wounding. <i>PLoS Genetics</i> , 2016, 12, e1006397.	3.5	28
36	Analysis of Organ-specific, Expressed Genes in <i>Oncidium</i> Orchid by Subtractive Expressed Sequence Tags Library. <i>Biotechnology Letters</i> , 2005, 27, 1517-1528.	2.2	26

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37	Characterization and promoter activity of chromoplast specific carotenoid associated gene (CHRC) from <i>Oncidium Gower Ramsey</i> . <i>Biotechnology Letters</i> , 2008, 30, 1861-1866.	2.2	26
38	A Low Glutathione Redox State Couples with a Decreased Ascorbate Redox Ratio to Accelerate Flowering in <i>Oncidium</i> Orchid. <i>Plant and Cell Physiology</i> , 2016, 57, 423-436.	3.1	26
39	RNA interference-based gene silencing of phytoene synthase impairs growth, carotenoids, and plastid phenotype in <i>Oncidium</i> hybrid orchid. <i>SpringerPlus</i> , 2014, 3, 478.	1.2	24
40	Nitric oxide participates in plant flowering repression by ascorbate. <i>Scientific Reports</i> , 2016, 6, 35246.	3.3	21
41	Molecular Cloning, Characterization, and Expression of a Chitinase from the Entomopathogenic Fungus <i>Paecilomyces javanicus</i> . <i>Current Microbiology</i> , 2007, 55, 8-13.	2.2	19
42	Proteomic profiling of proteins associated with the rejuvenation of <i>Sequoia sempervirens</i> (D. Don) Endl. <i>Proteome Science</i> , 2010, 8, 64.	1.7	19
43	Prolonged Exposure to Elevated Temperature Induces Floral Transition via Up-Regulation of Cytosolic Ascorbate Peroxidase 1 and Subsequent Reduction of the Ascorbate Redox Ratio in <i>Oncidium</i> Hybrid Orchid. <i>Plant and Cell Physiology</i> , 2014, 55, 2164-2176.	3.1	18
44	Isolation and Characterization of a Pure Mannan from <i>Oncidium</i> (cv. <i>Gower Ramsey</i> ) Current Pseudobulb during Initial Inflorescence Development. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 551-553.	1.3	17
45	Changes in Carbohydrate Content and Gene Expression During Tuberous Root Development of Sweet Potato. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2006, 15, 21-25.	1.7	13
46	Hydrogen peroxide mediates the expression of ascorbate-related genes in response to methanol stimulation in <i>Oncidium</i> . <i>Journal of Plant Physiology</i> , 2010, 167, 400-407.	3.5	11
47	Petal-specific RNA-mediated silencing of the phytoene synthase gene reduces xanthophyll levels to generate new <i>Oncidium</i> orchid varieties with white colour blooms. <i>Plant Biotechnology Journal</i> , 2019, 17, 2035-2037.	8.3	11
48	Colonisation of <i>Oncidium</i> orchid roots by the endophyte <i>Piriformospora indica</i> restricts <i>Erwinia chrysanthemi</i> infection, stimulates accumulation of NBS-LRR resistance gene transcripts and represses their targeting micro-RNAs in leaves. <i>BMC Plant Biology</i> , 2019, 19, 601.	3.6	11
49	Colonization of <i>Piriformospora indica</i> enhances insect herbivore resistance of rice plants through jasmonic acid- and antioxidant-mediated defense mechanisms. <i>Journal of Plant Interactions</i> , 2022, 17, 9-18.	2.1	11
50	Molecular characterization of fruit-specific class III peroxidase genes in tomato ( <i>Solanum</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td	3.5	10
51	Circadian control of sweet potato granule-bound starch synthase I gene in <i>Arabidopsis</i> plants. <i>Plant Growth Regulation</i> , 2004, 42, 161-168.	3.4	7
52	Neomycin: An Effective Inhibitor of Jasmonate-Induced Reactions in Plants. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 713-722.	5.1	6
53	Molecular variation and population structure in endangered <i>Limonium bicolor</i> : genetic diversity of microsatellite markers and amplified fragment length polymorphism analysis. <i>Journal of Genetics</i> , 2018, 97, 1097-1105.	0.7	3
54	Environmental biosafety assessment on transgenic <i>Oncidium</i> orchid modified by RNA interference of <i>Phytoene Synthase</i> genes. <i>Plant Biotechnology</i> , 2019, 36, 181-185.	1.0	3

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55	The signal network of ascorbate homeostasis. <i>Plant Signaling and Behavior</i> , 2010, 5, 570-572.	2.4	1
56	Coloration and Color Patterning in Floral Tissues of <i>Oncidium</i> Gower Ramsey. , 2011, , 101-115.		1
57	Pseudobulb-Specific Gene Expression of <i>Oncidium</i> Orchid at the Stage of Inflorescence Initiation. , 2007, , 185-210.		1
58	Compositional Variation in the Polysaccharides of the Pseudobulb of <i>Oncidium</i> Gower Ramsey During Different Stages of Inflorescence Development. , 2011, , 85-100.		0
59	Functional Study of Phytoene Synthase by RNAi-Based Downregulation in the <i>Oncidesa</i> Orchid. , 2017, , 373-391.		0
60	Methylation Effect on Chalcone Synthase Gene Expression Determines Anthocyanin Pigmentation in Floral Tissues of Two <i>Oncidium</i> Orchid Cultivars. , 2017, , 449-462.		0