

Yan-Hong Zhou

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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.

94 papers	6,073 citations	42 h-index	76 g-index
97 ext. papers	7,773 ext. citations	6.7 avg, IF	5.74 L-index

#	Paper	IF	Citations
94	Reactive oxygen species are involved in brassinosteroid-induced stress tolerance in cucumber. <i>Plant Physiology</i> , 2009 , 150, 801-14	6.6	507
93	Functional analysis of the Arabidopsis PAL gene family in plant growth, development, and response to environmental stress. <i>Plant Physiology</i> , 2010 , 153, 1526-38	6.6	450
92	Interplay between reactive oxygen species and hormones in the control of plant development and stress tolerance. <i>Journal of Experimental Botany</i> , 2015 , 66, 2839-56	7	401
91	H ₂ O ₂ mediates the crosstalk of brassinosteroid and abscisic acid in tomato responses to heat and oxidative stresses. <i>Journal of Experimental Botany</i> , 2014 , 65, 4371-83	7	204
90	Brassinosteroids promote photosynthesis and growth by enhancing activation of Rubisco and expression of photosynthetic genes in <i>Cucumis sativus</i> . <i>Planta</i> , 2009 , 230, 1185-96	4.7	188
89	Melatonin mitigates cadmium phytotoxicity through modulation of phytochelatin biosynthesis, vacuolar sequestration, and antioxidant potential in <i>Solanum lycopersicum</i> L. <i>Frontiers in Plant Science</i> , 2015 , 6, 601	6.2	174
88	Inhibition of photosynthesis and energy dissipation induced by water and high light stresses in rice. <i>Journal of Experimental Botany</i> , 2007 , 58, 1207-17	7	170
87	Effects of light quality on CO ₂ assimilation, chlorophyll-fluorescence quenching, expression of Calvin cycle genes and carbohydrate accumulation in <i>Cucumis sativus</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009 , 96, 30-7	6.7	159
86	Melatonin enhances thermotolerance by promoting cellular protein protection in tomato plants. <i>Journal of Pineal Research</i> , 2016 , 61, 457-469	10.4	146
85	Melatonin mediates selenium-induced tolerance to cadmium stress in tomato plants. <i>Journal of Pineal Research</i> , 2016 , 61, 291-302	10.4	140
84	Phytochrome A and B Function Antagonistically to Regulate Cold Tolerance via Abscisic Acid-Dependent Jasmonate Signaling. <i>Plant Physiology</i> , 2016 , 170, 459-71	6.6	133
83	HsfA1a upregulates melatonin biosynthesis to confer cadmium tolerance in tomato plants. <i>Journal of Pineal Research</i> , 2017 , 62, e12387	10.4	130
82	Role of H ₂ O ₂ dynamics in brassinosteroid-induced stomatal closure and opening in <i>Solanum lycopersicum</i> . <i>Plant, Cell and Environment</i> , 2014 , 37, 2036-50	8.4	113
81	Induction of systemic stress tolerance by brassinosteroid in <i>Cucumis sativus</i> . <i>New Phytologist</i> , 2011 , 191, 706-720	9.8	113
80	Tomato HsfA1a plays a critical role in plant drought tolerance by activating ATG genes and inducing autophagy. <i>Autophagy</i> , 2015 , 11, 2033-2047	10.2	109
79	Cellular glutathione redox homeostasis plays an important role in the brassinosteroid-induced increase in CO ₂ assimilation in <i>Cucumis sativus</i> . <i>New Phytologist</i> , 2012 , 194, 932-943	9.8	106
78	RBOH1-dependent H ₂ O ₂ production and subsequent activation of MPK1/2 play an important role in acclimation-induced cross-tolerance in tomato. <i>Journal of Experimental Botany</i> , 2014 , 65, 595-607	7	103

77	Silencing of tomato RBOH1 and MPK2 abolishes brassinosteroid-induced H ₂ O ₂ generation and stress tolerance. <i>Plant, Cell and Environment</i> , 2013 , 36, 789-803	8.4	100
76	Hydrogen peroxide mediates abscisic acid-induced HSP70 accumulation and heat tolerance in grafted cucumber plants. <i>Plant, Cell and Environment</i> , 2014 , 37, 2768-80	8.4	95
75	Genotypic variation of Rubisco expression, photosynthetic electron flow and antioxidant metabolism in the chloroplasts of chill-exposed cucumber plants. <i>Plant and Cell Physiology</i> , 2006 , 47, 192-9	4.9	82
74	Brassinosteroids accelerate recovery of photosynthetic apparatus from cold stress by balancing the electron partitioning, carboxylation and redox homeostasis in cucumber. <i>Physiologia Plantarum</i> , 2013 , 148, 133-45	4.6	79
73	Antagonism between phytohormone signalling underlies the variation in disease susceptibility of tomato plants under elevated CO ₂ . <i>Journal of Experimental Botany</i> , 2015 , 66, 1951-63	7	77
72	Chill-induced decrease in capacity of RuBP carboxylation and associated H ₂ O ₂ accumulation in cucumber leaves are alleviated by grafting onto figleaf gourd. <i>Annals of Botany</i> , 2007 , 100, 839-48	4.1	77
71	Brassinosteroids play a critical role in the regulation of pesticide metabolism in crop plants. <i>Scientific Reports</i> , 2015 , 5, 9018	4.9	73
70	A Plant Phytosulfokine Peptide Initiates Auxin-Dependent Immunity through Cytosolic Ca Signaling in Tomato. <i>Plant Cell</i> , 2018 , 30, 652-667	11.6	72
69	The bZip transcription factor HY5 mediates CRY1a-induced anthocyanin biosynthesis in tomato. <i>Plant, Cell and Environment</i> , 2018 , 41, 1762-1775	8.4	68
68	Brassinosteroid alleviates polychlorinated biphenyls-induced oxidative stress by enhancing antioxidant enzymes activity in tomato. <i>Chemosphere</i> , 2013 , 90, 2645-53	8.4	68
67	Role of brassinosteroid in plant adaptation to abiotic stresses and its interplay with other hormones. <i>Current Protein and Peptide Science</i> , 2015 , 16, 462-73	2.8	67
66	Guard cell hydrogen peroxide and nitric oxide mediate elevated CO ₂ -induced stomatal movement in tomato. <i>New Phytologist</i> , 2015 , 208, 342-53	9.8	63
65	Cytokinin-induced parthenocarpic fruit development in tomato is partly dependent on enhanced gibberellin and auxin biosynthesis. <i>PLoS ONE</i> , 2013 , 8, e70080	3.7	54
64	BZR1 Mediates Brassinosteroid-Induced Autophagy and Nitrogen Starvation in Tomato. <i>Plant Physiology</i> , 2019 , 179, 671-685	6.6	53
63	Brassinosteroid-mediated apoplastic H ₂ O ₂ -glutaredoxin 12/14 cascade regulates antioxidant capacity in response to chilling in tomato. <i>Plant, Cell and Environment</i> , 2018 , 41, 1052-1064	8.4	53
62	RNA-seq analysis reveals the role of red light in resistance against <i>Pseudomonas syringae</i> pv. tomato DC3000 in tomato plants. <i>BMC Genomics</i> , 2015 , 16, 120	4.5	52
61	BZR1 Transcription Factor Regulates Heat Stress Tolerance Through FERONIA Receptor-Like Kinase-Mediated Reactive Oxygen Species Signaling in Tomato. <i>Plant and Cell Physiology</i> , 2018 , 59, 2239-2254	4.9	52
60	Light Signaling-Dependent Regulation of Photoinhibition and Photoprotection in Tomato. <i>Plant Physiology</i> , 2018 , 176, 1311-1326	6.6	52

59	DWARF overexpression induces alteration in phytohormone homeostasis, development, architecture and carotenoid accumulation in tomato. <i>Plant Biotechnology Journal</i> , 2016 , 14, 1021-33	11.6	50
58	The role of calcium-dependent protein kinase in hydrogen peroxide, nitric oxide and ABA-dependent cold acclimation. <i>Journal of Experimental Botany</i> , 2018 , 69, 4127-4139	7	47
57	Brassinosteroids Act as a Positive Regulator of Photoprotection in Response to Chilling Stress. <i>Plant Physiology</i> , 2019 , 180, 2061-2076	6.6	46
56	Systemic Induction of Photosynthesis via Illumination of the Shoot Apex Is Mediated Sequentially by Phytochrome B, Auxin and Hydrogen Peroxide in Tomato. <i>Plant Physiology</i> , 2016 , 172, 1259-1272	6.6	46
55	Salicylic acid binding of mitochondrial alpha-ketoglutarate dehydrogenase E2 affects mitochondrial oxidative phosphorylation and electron transport chain components and plays a role in basal defense against tobacco mosaic virus in tomato. <i>New Phytologist</i> , 2015 , 205, 1296-1307	9.8	45
54	Systemic Root-Shoot Signaling Drives Jasmonate-Based Root Defense against Nematodes. <i>Current Biology</i> , 2019 , 29, 3430-3438.e4	6.3	43
53	Impact of light variation on development of photoprotection, antioxidants, and nutritional value in <i>Lactuca sativa</i> L. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 5494-500	5.7	42
52	Overexpression of a brassinosteroid biosynthetic gene Dwarf enhances photosynthetic capacity through activation of Calvin cycle enzymes in tomato. <i>BMC Plant Biology</i> , 2016 , 16, 33	5.3	42
51	SLHY5 Integrates Temperature, Light, and Hormone Signaling to Balance Plant Growth and Cold Tolerance. <i>Plant Physiology</i> , 2019 , 179, 749-760	6.6	39
50	24-Epibrassinolide alleviates organic pollutants-retarded root elongation by promoting redox homeostasis and secondary metabolism in <i>Cucumis sativus</i> L. <i>Environmental Pollution</i> , 2017 , 229, 922-931	9.3	38
49	Involvement of nitric oxide in the jasmonate-dependent basal defense against root-knot nematode in tomato plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 193	6.2	37
48	Grafting cucumber onto luffa improves drought tolerance by increasing ABA biosynthesis and sensitivity. <i>Scientific Reports</i> , 2016 , 6, 20212	4.9	37
47	Brassinosteroids-Induced Systemic Stress Tolerance was Associated with Increased Transcripts of Several Defence-Related Genes in the Phloem in <i>Cucumis sativus</i> . <i>PLoS ONE</i> , 2013 , 8, e66582	3.7	36
46	Genome-Wide Identification and Expression Analysis of Calcium-dependent Protein Kinase in Tomato. <i>Frontiers in Plant Science</i> , 2016 , 7, 469	6.2	36
45	Microarray and genetic analysis reveals that csa-miR159b plays a critical role in abscisic acid-mediated heat tolerance in grafted cucumber plants. <i>Plant, Cell and Environment</i> , 2016 , 39, 1790-804	8.4	36
44	Crosstalk between Nitric Oxide and MPK1/2 Mediates Cold Acclimation-induced Chilling Tolerance in Tomato. <i>Plant and Cell Physiology</i> , 2017 , 58, 1963-1975	4.9	35
43	Brassinosteroids act as a positive regulator for resistance against root-knot nematode involving RESPIRATORY BURST OXIDASE HOMOLOG-dependent activation of MAPKs in tomato. <i>Plant, Cell and Environment</i> , 2018 , 41, 1113-1125	8.4	35
42	Effects of nitrogen form on growth, CO ₂ assimilation, chlorophyll fluorescence, and photosynthetic electron allocation in cucumber and rice plants. <i>Journal of Zhejiang University: Science B</i> , 2011 , 12, 126-34	4.5	35

41	High atmospheric carbon dioxide-dependent alleviation of salt stress is linked to RESPIRATORY BURST OXIDASE 1 (RBOH1)-dependent H ₂ O ₂ production in tomato (<i>Solanum lycopersicum</i>). <i>Journal of Experimental Botany</i> , 2015 , 66, 7391-404	7	34
40	Grafting of <i>Cucumis sativus</i> onto <i>Cucurbita ficifolia</i> leads to improved plant growth, increased light utilization and reduced accumulation of reactive oxygen species in chilled plants. <i>Journal of Plant Research</i> , 2009 , 122, 529-40	2.6	34
39	Apoplastic H ₂ O ₂ plays a critical role in axillary bud outgrowth by altering auxin and cytokinin homeostasis in tomato plants. <i>New Phytologist</i> , 2016 , 211, 1266-78	9.8	34
38	Glutathione biosynthesis and regeneration play an important role in the metabolism of chlorothalonil in tomato. <i>Chemosphere</i> , 2013 , 90, 2563-70	8.4	32
37	Crosstalk of PIF4 and DELLA modulates CBF transcript and hormone homeostasis in cold response in tomato. <i>Plant Biotechnology Journal</i> , 2020 , 18, 1041-1055	11.6	31
36	Heat Shock Factor HsfA1a Is Essential for Gene-Mediated Nematode Resistance and Triggers HO Production. <i>Plant Physiology</i> , 2018 , 176, 2456-2471	6.6	30
35	Enhanced photosynthetic capacity and antioxidant potential mediate brassinosteroid-induced phenanthrene stress tolerance in tomato. <i>Environmental Pollution</i> , 2015 , 201, 58-66	9.3	29
34	Tomato CRY1a plays a critical role in the regulation of phytohormone homeostasis, plant development, and carotenoid metabolism in fruits. <i>Plant, Cell and Environment</i> , 2018 , 41, 354-366	8.4	28
33	Tomato GLR3.3 and GLR3.5 mediate cold acclimation-induced chilling tolerance by regulating apoplastic H ₂ O ₂ production and redox homeostasis. <i>Plant, Cell and Environment</i> , 2019 , 42, 3326-3339	8.4	28
32	Brassinosteroids act as a positive regulator of NBR1-dependent selective autophagy in response to chilling stress in tomato. <i>Journal of Experimental Botany</i> , 2020 , 71, 1092-1106	7	27
31	Strigolactones positively regulate defense against root-knot nematodes in tomato. <i>Journal of Experimental Botany</i> , 2019 , 70, 1325-1337	7	27
30	Brassinosteroid improves seed germination and early development of tomato seedling under phenanthrene stress. <i>Plant Growth Regulation</i> , 2012 , 68, 87-96	3.2	25
29	Tomato- <i>Pseudomonas syringae</i> interactions under elevated CO ₂ concentration: the role of stomata. <i>Journal of Experimental Botany</i> , 2015 , 66, 307-16	7	24
28	Interplay between mitogen-activated protein kinase and nitric oxide in brassinosteroid-induced pesticide metabolism in <i>Solanum lycopersicum</i> . <i>Journal of Hazardous Materials</i> , 2016 , 316, 221-31	12.8	24
27	The sub/supra-optimal temperature-induced inhibition of photosynthesis and oxidative damage in cucumber leaves are alleviated by grafting onto figleaf gourd/luffa rootstocks. <i>Physiologia Plantarum</i> , 2014 , 152, 571-84	4.6	23
26	Chloroplastic thioredoxin-f and thioredoxin-m1/4 play important roles in brassinosteroids-induced changes in CO ₂ assimilation and cellular redox homeostasis in tomato. <i>Journal of Experimental Botany</i> , 2014 , 65, 4335-47	7	23
25	Glutaredoxin GRXS16 mediates brassinosteroid-induced apoplastic HO production to promote pesticide metabolism in tomato. <i>Environmental Pollution</i> , 2018 , 240, 227-234	9.3	22
24	Brassinosteroid-mediated reactive oxygen species are essential for tapetum degradation and pollen fertility in tomato. <i>Plant Journal</i> , 2020 , 102, 931-947	6.9	22

23	A novel CO -responsive systemic signaling pathway controlling plant mycorrhizal symbiosis. <i>New Phytologist</i> , 2019 , 224, 106-116	9.8	20
22	Interactions between 2-Cys peroxiredoxins and ascorbate in autophagosome formation during the heat stress response in <i>Solanum lycopersicum</i> . <i>Journal of Experimental Botany</i> , 2016 , 67, 1919-33	7	20
21	The HY5 and MYB15 transcription factors positively regulate cold tolerance in tomato via the CBF pathway. <i>Plant, Cell and Environment</i> , 2020 , 43, 2712-2726	8.4	20
20	Role of Hormones in Plant Adaptation to Heat Stress 2016 , 1-21		17
19	Putrescine enhancement of tolerance to root-zone hypoxia in <i>Cucumis sativus</i> : a role for increased nitrate reduction. <i>Functional Plant Biology</i> , 2008 , 35, 337-345	2.7	17
18	Unraveling Main Limiting Sites of Photosynthesis under Below- and Above-Ground Heat Stress in Cucumber and the Alleviatory Role of Luffa Rootstock. <i>Frontiers in Plant Science</i> , 2016 , 7, 746	6.2	17
17	Light-induced systemic resistance in tomato plants against root-knot nematode <i>Meloidogyne incognita</i> . <i>Plant Growth Regulation</i> , 2015 , 76, 167-175	3.2	14
16	Greenhouse and field cucumber genotypes use different mechanisms to protect against dark chilling. <i>Functional Plant Biology</i> , 2004 , 31, 1215-1223	2.7	14
15	Nitric oxide is involved in the oxytetracycline-induced suppression of root growth through inhibiting hydrogen peroxide accumulation in the root meristem. <i>Scientific Reports</i> , 2017 , 7, 43096	4.9	13
14	Temperature effects on the reactive oxygen species formation and antioxidant defence in roots of two cucurbit species with contrasting root zone temperature optima. <i>Acta Physiologiae Plantarum</i> , 2012 , 34, 713-720	2.6	13
13	Adaptation of cucurbit species to changes in substrate temperature: Root growth, antioxidants, and peroxidation 2007 , 50, 527-532		13
12	Light regulation of horticultural crop nutrient uptake and utilization. <i>Horticultural Plant Journal</i> , 2021 , 7, 367-379	4.3	13
11	Effects of <i>Fusarium oxysporum</i> on rhizosphere microbial communities of two cucumber genotypes with contrasting <i>Fusarium</i> wilt resistance under hydroponic condition. <i>European Journal of Plant Pathology</i> , 2014 , 140, 643-653	2.1	10
10	Light-induced HY5 Functions as a Systemic Signal to Coordinate the Photoprotective Response to Light Fluctuation. <i>Plant Physiology</i> , 2020 , 184, 1181-1193	6.6	9
9	Brassinosteroid signaling integrates multiple pathways to release apical dominance in tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
8	Ethylene response factors 15 and 16 trigger jasmonate biosynthesis in tomato during herbivore resistance. <i>Plant Physiology</i> , 2021 , 185, 1182-1197	6.6	9
7	Strigolactones positively regulate abscisic acid-dependent heat and cold tolerance in tomato. <i>Horticulture Research</i> , 2021 , 8, 237	7.7	8
6	The phyB-dependent induction of HY5 promotes iron uptake by systemically activating FER expression. <i>EMBO Reports</i> , 2021 , 22, e51944	6.5	8

5	ELONGATED HYPOCOTYL 5 mediates blue light-induced starch degradation in tomato. <i>Journal of Experimental Botany</i> , 2021 , 72, 2627-2641	7	7
4	Crosstalk between Brassinosteroid and Redox Signaling Contributes to the Activation of CBF Expression during Cold Responses in Tomato. <i>Antioxidants</i> , 2021 , 10,	7.1	7
3	Light-dependent activation of HY5 promotes mycorrhizal symbiosis in tomato by systemically regulating strigolactone biosynthesis. <i>New Phytologist</i> , 2021 ,	9.8	5
2	Effects of pollination and N-(2-chloro-4-pyridyl)-N-phenylurea on the expression of acid invertase in ovaries of <i>Lagenaria leucantha</i> . <i>Plant Growth Regulation</i> , 2004 , 42, 263-270	3.2	1
1	High Nitric Oxide Concentration Inhibits Photosynthetic Pigment Biosynthesis by Promoting the Degradation of Transcription Factor HY5 in Tomato. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6027	6.3	1