Jing-Quan Yu

List of Publications by Year
in descending order

185 papers	16,000 citations	12303 69 h-index	19136 118 g-index
185 all docs	185 docs citations	185 times ranked	13762 citing authors

#	Article	IF	Citations
1	Silicon alleviates salt stress and increases antioxidant enzymes activity in leaves of salt-stressed cucumber (Cucumis sativus L.). Plant Science, 2004, 167, 527-533.	1.7	703
2	Functional Analysis of the Arabidopsis <i>PAL</i> Gene Family in Plant Growth, Development, and Response to Environmental Stress Â Â. Plant Physiology, 2010, 153, 1526-1538.	2.3	668
3	Reactive Oxygen Species Are Involved in Brassinosteroid-Induced Stress Tolerance in Cucumber Â. Plant Physiology, 2009, 150, 801-814.	2.3	640
4	Interplay between reactive oxygen species and hormones in the control of plant development and stress tolerance. Journal of Experimental Botany, 2015, 66, 2839-2856.	2.4	572
5	Neglecting legumes has compromised human health and sustainable food production. Nature Plants, 2016, 2, 16112.	4.7	529
6	NBR1-Mediated Selective Autophagy Targets Insoluble Ubiquitinated Protein Aggregates in Plant Stress Responses. PLoS Genetics, 2013, 9, e1003196.	1.5	281
7	Melatonin mitigates cadmium phytotoxicity through modulation of phytochelatins biosynthesis, vacuolar sequestration, and antioxidant potential in Solanum lycopersicum L. Frontiers in Plant Science, 2015, 6, 601.	1.7	278
8	Proteinâ€“Protein Interactions in the Regulation of WRKY Transcription Factors. Molecular Plant, 2013, 6, 287-300.	3.9	276
9	Benefits of brassinosteroid crosstalk. Trends in Plant Science, 2012, 17, 594-605.	4.3	271
10	<i>Arabidopsis</i>Sigma Factor Binding Proteins Are Activators of the WRKY33 Transcription Factor in Plant Defense. Plant Cell, 2011, 23, 3824-3841.	3.1	260
11	H2O2 mediates the crosstalk of brassinosteroid and abscisic acid in tomato responses to heat and oxidative stresses. Journal of Experimental Botany, 2014, 65, 4371-4383.	2.4	257
12	Plant-Soil Feedbacks and Soil Sickness: From Mechanisms to Application in Agriculture. Journal of Chemical Ecology, 2013, 39, 232-242.	0.9	248
13	Brassinosteroids promote photosynthesis and growth by enhancing activation of Rubisco and expression of photosynthetic genes in Cucumis sativus. Planta, 2009, 230, 1185-1196.	1.6	232
14	Role of brassinosteroids in alleviation of phenanthreneâ€“cadmium co-contamination-induced photosynthetic inhibition and oxidative stress in tomato. Journal of Experimental Botany, 2013, 64, 199-213.	2.4	230
15	Effects of light quality on CO2 assimilation, chlorophyll-fluorescence quenching, expression of Calvin cycle genes and carbohydrate accumulation in Cucumis sativus. Journal of Photochemistry and Photobiology B: Biology, 2009, 96, 30-37.	1.7	226
16	HsfA1a upregulates melatonin biosynthesis to confer cadmium tolerance in tomato plants. Journal of Pineal Research, 2017, 62, e12387.	3.4	219
17	Silicon-mediated alleviation of Mn toxicity in Cucumis sativus in relation to activities of superoxide dismutase and ascorbate peroxidase. Phytochemistry, 2005, 66, 1551-1559.	1.4	216
18	Structural and Functional Analysis of VQ Motif-Containing Proteins in Arabidopsis as Interacting Proteins of WRKY Transcription Factors Â Â. Plant Physiology, 2012, 159, 810-825.	2.3	216

#	Article	IF	Citations
19	Melatonin enhances thermotolerance by promoting cellular protein protection in tomato plants. Journal of Pineal Research, 2016, 61, 457-469.	3.4	216
20	Phytochrome A and B Function Antagonistically to Regulate Cold Tolerance via Abscisic Acid-Dependent Jasmonate Signaling. Plant Physiology, 2016, 170, 459-471.	2.3	216
21	Melatonin mediates seleniumâ€induced tolerance to cadmium stress in tomato plants. Journal of Pineal Research, 2016, 61, 291-302.	3.4	211
22	Tomato HsfA1a plays a critical role in plant drought tolerance by activating <i>ATG</i> genes and inducing autophagy. Autophagy, 2015, 11, 2033-2047.	4.3	166
23	Role and regulation of autophagy in heat stress responses of tomato plants. Frontiers in Plant Science, 2014, 5, 174.	1.7	162
24	Role of nitric oxide in hydrogen peroxideâ€dependent induction of abiotic stress tolerance by brassinosteroids in cucumber. Plant, Cell and Environment, 2011, 34, 347-358.	2.8	160
25	Chromium Stress Mitigation by Polyamine-Brassinosteroid Application Involves Phytohormonal and Physiological Strategies in Raphanus sativus L.. PLoS ONE, 2012, 7, e33210.	1.1	159
26	Phytomelatonin: Recent advances and future prospects. Journal of Pineal Research, 2018, 65, e12526.	3.4	148
27	Interaction of Brassinosteroids and Polyamines Enhances Copper Stress Tolerance in Raphanus Sativus. Journal of Experimental Botany, 2012, 63, 5659-5675.	2.4	142
28	Role of <scp><scp>H₂O₂</scp></scp> dynamics in brassinosteroidâ€induced stomatal closure and opening in <scp><i>S</i></scp><i>olanum lycopersicum</i>. Plant, Cell and Environment, 2014, 37, 2036-2050.	2.8	139
29	The <scp>bZip</scp> transcription factor <i>HY5</i> mediates <scp><i>CRY1a</i></scp>â€induced anthocyanin biosynthesis in tomato. Plant, Cell and Environment, 2018, 41, 1762-1775.	2.8	138
30	Hydrogen peroxide mediates abscisic acidâ€induced <scp>HSP</scp>70 accumulation and heat tolerance in grafted cucumber plants. Plant, Cell and Environment, 2014, 37, 2768-2780.	2.8	135
31	Involvement of an ethylene response factor in chlorophyll degradation during citrus fruit degreening. Plant Journal, 2016, 86, 403-412.	2.8	130
32	<i>RBOH1</i>-dependent H₂O₂production and subsequent activation of MPK1/2 play an important role in acclimation-induced cross-tolerance in tomato. Journal of Experimental Botany, 2014, 65, 595-607.	2.4	129
33	Incidence of Fusarium wilt in Cucumis sativusÂL. is promoted by cinnamic acid, an autotoxin in root exudates. Plant and Soil, 2004, 263, 143-150.	1.8	128
34	E3 Ubiquitin Ligase CHIP and NBR1-Mediated Selective Autophagy Protect Additively against Proteotoxicity in Plant Stress Responses. PLoS Genetics, 2014, 10, e1004116.	1.5	127
35	Induction of systemic stress tolerance by brassinosteroid in <i>Cucumis sativus</i>. New Phytologist, 2011, 191, 706-720.	3.5	124
36	Cellular glutathione redox homeostasis plays an important role in the brassinosteroidâ€induced increase in CO₂ assimilation in <i>Cucumis sativus</i>. New Phytologist, 2012, 194, 932-943.	3.5	120

#	Article	IF	Citations
37	A Plant Phytosulfokine Peptide Initiates Auxin-Dependent Immunity through Cytosolic Ca²⁺ Signaling in Tomato. Plant Cell, 2018, 30, 652-667.	3.1	120
38	Antagonism between phytohormone signalling underlies the variation in disease susceptibility of tomato plants under elevated CO2. Journal of Experimental Botany, 2015, 66, 1951-1963.	2.4	116
39	BZR1 Mediates Brassinosteroid-Induced Autophagy and Nitrogen Starvation in Tomato. Plant Physiology, 2019, 179, 671-685.	2.3	114
40	A Combined Approach of High-Throughput Sequencing and Degradome Analysis Reveals Tissue Specific Expression of MicroRNAs and Their Targets in Cucumber. PLoS ONE, 2012, 7, e33040.	1.1	113
41	Glutathione-mediated regulation of nitric oxide, S-nitrosothiol and redox homeostasis confers cadmium tolerance by inducing transcription factors and stress response genes in tomato. Chemosphere, 2016, 161, 536-545.	4.2	111
42	Brassinosteroid alleviates phenanthrene and pyrene phytotoxicity by increasing detoxification activity and photosynthesis in tomato. Chemosphere, 2012, 86, 546-555.	4.2	110
43	Brassinosteroids play a critical role in the regulation of pesticide metabolism in crop plants. Scientific Reports, 2015, 5, 9018.	1.6	110
44	Brassinosteroids accelerate recovery of photosynthetic apparatus from cold stress by balancing the electron partitioning, carboxylation and redox homeostasis in cucumber. Physiologia Plantarum, 2013, 148, 133-145.	2.6	107
45	Degradation of chlorpyrifos in laboratory soil and its impact on soil microbial functional diversity. Journal of Environmental Sciences, 2009, 21, 380-386.	3.2	103
46	Guard cell hydrogen peroxide and nitric oxide mediate elevated <scp>CO</scp>₂â€induced stomatal movement in tomato. New Phytologist, 2015, 208, 342-353.	3.5	95
47	Brassinosteroidâ€mediated apoplastic <scp>H₂O₂</scp>â€glutaredoxin 12/14 cascade regulates antioxidant capacity in response to chilling in tomato. Plant, Cell and Environment, 2018, 41, 1052-1064.	2.8	95
48	Photoprotective roles of anthocyanins in Begonia semperflorens. Plant Science, 2010, 179, 202-208.	1.7	93
49	Brassinosteroid alleviates polychlorinated biphenyls-induced oxidative stress by enhancing antioxidant enzymes activity in tomato. Chemosphere, 2013, 90, 2645-2653.	4.2	92
50	BZR1 Transcription Factor Regulates Heat Stress Tolerance Through FERONIA Receptor-Like Kinase-Mediated Reactive Oxygen Species Signaling in Tomato. Plant and Cell Physiology, 2018, 59, 2239-2254.	1.5	91
51	Chill-Induced Decrease in Capacity of RuBP Carboxylation and Associated H2O2 Accumulation in Cucumber Leaves are Alleviated by Grafting onto Figleaf Gourd. Annals of Botany, 2007, 100, 839-848.	1.4	90
52	Arabidopsis LIP5, a Positive Regulator of Multivesicular Body Biogenesis, Is a Critical Target of Pathogen-Responsive MAPK Cascade in Plant Basal Defense. PLoS Pathogens, 2014, 10, e1004243.	2.1	90
53	Brassinosteroids Act as a Positive Regulator of Photoprotection in Response to Chilling Stress. Plant Physiology, 2019, 180, 2061-2076.	2.3	90
54	Systemic Root-Shoot Signaling Drives Jasmonate-Based Root Defense against Nematodes. Current Biology, 2019, 29, 3430-3438.e4.	1.8	89

#	Article	IF	Citations
55	Genotypic Variation of Rubisco Expression, Photosynthetic Electron Flow and Antioxidant Metabolism in the Chloroplasts of Chill-exposed Cucumber Plants. Plant and Cell Physiology, 2006, 47, 192-199.	1.5	87
56	Characterization of the promoter and extended C-terminal domain of Arabidopsis WRKY33 and functional analysis of tomato WRKY33 homologues in plant stress responses. Journal of Experimental Botany, 2015, 66, 4567-4583.	2.4	86
57	Role of Brassinosteroid in Plant Adaptation to Abiotic Stresses and its Interplay with Other Hormones. Current Protein and Peptide Science, 2015, 16, 462-473.	0.7	86
58	Systemic Induction and Role of Mitochondrial Alternative Oxidase and Nitric Oxide in a Compatible Tomatoâ€“<i>Tobacco mosaic virus</i> Interaction. Molecular Plant-Microbe Interactions, 2010, 23, 39-48.	1.4	85
59	Light Signaling-Dependent Regulation of Photoinhibition and Photoprotection in Tomato. Plant Physiology, 2018, 176, 1311-1326.	2.3	85
60	Brassinosteroid Ameliorates Zinc Oxide Nanoparticles-Induced Oxidative Stress by Improving Antioxidant Potential and Redox Homeostasis in Tomato Seedling. Frontiers in Plant Science, 2016, 7, 615.	1.7	84
61	<i><scp>DWARF</scp></i> overexpression induces alteration in phytohormone homeostasis, development, architecture and carotenoid accumulation in tomato. Plant Biotechnology Journal, 2016, 14, 1021-1033.	4.1	83
62	Effects of cucumber mosaic virus infection on electron transport and antioxidant system in chloroplasts and mitochondria of cucumber and tomato leaves. Physiologia Plantarum, 2009, 135, 246-257.	2.6	82
63	The growth, photosynthesis and antioxidant defense responses of five vegetable crops to phenanthrene stress. Ecotoxicology and Environmental Safety, 2012, 80, 132-139.	2.9	82
64	The perplexing role of autophagy in plant innate immune responses. Molecular Plant Pathology, 2014, 15, 637-645.	2.0	82
65	RNA-seq analysis reveals the role of red light in resistance against Pseudomonas syringae pv. tomato DC3000 in tomato plants. BMC Genomics, 2015, 16, 120.	1.2	82
66	Cytokinin-Induced Parthenocarpic Fruit Development in Tomato Is Partly Dependent on Enhanced Gibberellin and Auxin Biosynthesis. PLoS ONE, 2013, 8, e70080.	1.1	79
67	Effect of excess manganese on the antioxidant system in Cucumis sativus L. under two light intensities. Environmental and Experimental Botany, 2006, 58, 197-205.	2.0	73
68	Systemic induction of photosynthesis via illumination of the shoot apex is mediated by phytochrome B. Plant Physiology, 2016, 172, pp.01202.2016.	2.3	73
69	The role of calcium-dependent protein kinase in hydrogen peroxide, nitric oxide and ABA-dependent cold acclimation. Journal of Experimental Botany, 2018, 69, 4127-4139.	2.4	73
70	Histone acetylation recruits the SWR1 complex to regulate active DNA demethylation in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16641-16650.	3.3	73
71	Stimulated Leaf Dark Respiration in Tomato in an Elevated Carbon Dioxide Atmosphere. Scientific Reports, 2013, 3, 3433.	1.6	72
72	SlHY5 Integrates Temperature, Light, and Hormone Signaling to Balance Plant Growth and Cold Tolerance. Plant Physiology, 2019, 179, 749-760.	2.3	71

#	Article	IF	Citations
73	Brassinosteroids induce plant tolerance against phenanthrene by enhancing degradation and detoxification in Solanum lycopersicum L.. Ecotoxicology and Environmental Safety, 2012, 80, 28-36.	2.9	68
74	Crosstalk of PIF4 and DELLA modulates CBF transcript and hormone homeostasis in cold response in tomato. Plant Biotechnology Journal, 2020, 18, 1041-1055.	4.1	65
75	Alleviation of chilling-induced oxidative damage by salicylic acid pretreatment and related gene expression in eggplant seedlings. Plant Growth Regulation, 2011, 65, 101-108.	1.8	63
76	Genome-Wide Identification and Expression Analysis of Calcium-dependent Protein Kinase in Tomato. Frontiers in Plant Science, 2016, 7, 469.	1.7	62
77	The protein kinase CPK28 phosphorylates ascorbate peroxidase and enhances thermotolerance in tomato. Plant Physiology, 2021, 186, 1302-1317.	2.3	61
78	Brassinosteroids act as a positive regulator for resistance against rootâ€knot nematode involving RESPIRATORY BURST OXIDASE HOMOLOGâ€dependent activation of MAPKs in tomato. Plant, Cell and Environment, 2018, 41, 1113-1125.	2.8	59
79	Strigolactones positively regulate defense against root-knot nematodes in tomato. Journal of Experimental Botany, 2019, 70, 1325-1337.	2.4	59
80	Involvement of nitric oxide in the jasmonate-dependent basal defense against root-knot nematode in tomato plants. Frontiers in Plant Science, 2015, 6, 193.	1.7	57
81	Grafting cucumber onto luffa improves drought tolerance by increasing ABA biosynthesis and sensitivity. Scientific Reports, 2016, 6, 20212.	1.6	57
82	Overexpression of a brassinosteroid biosynthetic gene Dwarf enhances photosynthetic capacity through activation of Calvin cycle enzymes in tomato. BMC Plant Biology, 2016, 16, 33.	1.6	57
83	24-Epibrassinolide alleviates organic pollutants-retarded root elongation by promoting redox homeostasis and secondary metabolism in Cucumis sativus L. Environmental Pollution, 2017, 229, 922-931.	3.7	57
84	Role of ethylene biosynthesis and signaling in elevated CO2-induced heat stress response in tomato. Planta, 2019, 250, 563-572.	1.6	57
85	Tomato <i>GLR3.3</i> and <i>GLR3.5</i> mediate cold acclimationâ€induced chilling tolerance by regulating apoplastic H₂O₂ production and redox homeostasis. Plant, Cell and Environment, 2019, 42, 3326-3339.	2.8	56
86	The <scp>HY5</scp> and <scp>MYB15</scp> transcription factors positively regulate cold tolerance in tomato via the <scp>CBF</scp> pathway. Plant, Cell and Environment, 2020, 43, 2712-2726.	2.8	56
87	Brassinosteroids act as a positive regulator of NBR1-dependent selective autophagy in response to chilling stress in tomato. Journal of Experimental Botany, 2020, 71, 1092-1106.	2.4	56
88	Salicylic acid binding of mitochondrial alphaâ€ketoglutarate dehydrogenase E2 affects mitochondrial oxidative phosphorylation and electron transport chain components and plays a role in basal defense against <i>tobacco mosaic virus</i> in tomato. New Phytologist, 2015, 205, 1296-1307.	3.5	55
89	Brassinosteroidâ€mediated reactive oxygen species are essential for tapetum degradation and pollen fertility in tomato. Plant Journal, 2020, 102, 931-947.	2.8	55
90	Impact of Light Variation on Development of Photoprotection, Antioxidants, and Nutritional Value in Lactuca sativa L.. Journal of Agricultural and Food Chemistry, 2009, 57, 5494-5500.	2.4	53

#	Article	IF	Citations
91	Glutathione biosynthesis and regeneration play an important role in the metabolism of chlorothalonil in tomato. Chemosphere, 2013, 90, 2563-2570.	4.2	52
92	Microarray and genetic analysis reveals that csaâ€miR159b plays a critical role in abscisic acidâ€mediated heat tolerance in grafted cucumber plants. Plant, Cell and Environment, 2016, 39, 1790-1804.	2.8	52
93	Heat Shock Factor HsfA1a Is Essential for <i>R</i> Gene-Mediated Nematode Resistance and Triggers H₂O₂ Production¹. Plant Physiology, 2018, 176, 2456-2471.	2.3	52
94	Brassinosteroids-Induced Systemic Stress Tolerance was Associated with Increased Transcripts of Several Defence-Related Genes in the Phloem in Cucumis sativus. PLoS ONE, 2013, 8, e66582.	1.1	52
95	Chill-Induced Inhibition of Photosynthesis: Genotypic Variation within Cucumis sativus. Plant and Cell Physiology, 2002, 43, 1182-1188.	1.5	50
96	Detached leaves of tomato differ in their photosynthetic physiological response to moderate high and low temperature stress. Scientia Horticulturae, 2009, 123, 17-22.	1.7	49
97	The different responses of glutathione-dependent detoxification pathway to fungicide chlorothalonil and carbendazim in tomato leaves. Chemosphere, 2010, 79, 958-965.	4.2	49
98	Effects of nitrogen form on growth, CO2 assimilation, chlorophyll fluorescence, and photosynthetic electron allocation in cucumber and rice plants. Journal of Zhejiang University: Science B, 2011, 12, 126-134.	1.3	49
99	High atmospheric carbon dioxide-dependent alleviation of salt stress is linked to RESPIRATORY BURST OXIDASE 1 (<i>RBOH1</i>)-dependent H₂O₂production in tomato (<i>Solanum) Tj ETQq1 1 0.784314 rgBT	2.4	49
100	Apoplastic H₂O₂ plays a critical role in axillary bud outgrowth by altering auxin and cytokinin homeostasis in tomato plants. New Phytologist, 2016, 211, 1266-1278.	3.5	49
101	Brassinosteroid signaling integrates multiple pathways to release apical dominance in tomato. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	49
102	Crosstalk between Nitric Oxide and MPK1/2 Mediates Cold Acclimation-induced Chilling Tolerance in Tomato. Plant and Cell Physiology, 2017, 58, 1963-1975.	1.5	47
103	Strigolactones positively regulate abscisic acid-dependent heat and cold tolerance in tomato. Horticulture Research, 2021, 8, 237.	2.9	47
104	The reduction of reactive oxygen species formation by mitochondrial alternative respiration in tomato basal defense against TMV infection. Planta, 2012, 235, 225-238.	1.6	46
105	Hydrogen peroxide functions as a secondary messenger for brassinosteroids-induced CO2 assimilation and carbohydrate metabolism in Cucumis sativus. Journal of Zhejiang University: Science B, 2012, 13, 811-823.	1.3	45
106	The Role of Hydrogen Peroxide and Nitric Oxide in the Induction of Plant-Encoded RNA-Dependent RNA Polymerase 1 in the Basal Defense against Tobacco Mosaic Virus. PLoS ONE, 2013, 8, e76090.	1.1	45
107	Grafting of Cucumis sativus onto Cucurbita ficifolia leads to improved plant growth, increased light utilization and reduced accumulation of reactive oxygen species in chilled plants. Journal of Plant Research, 2009, 122, 529-540.	1.2	44
108	Tomato <i>CRY1a</i> plays a critical role in the regulation of phytohormone homeostasis, plant development, and carotenoid metabolism in fruits. Plant, Cell and Environment, 2018, 41, 354-366.	2.8	44

#	Article	IF	Citations
109	A Method of High Throughput Monitoring Crop Physiology Using Chlorophyll Fluorescence and Multispectral Imaging. Frontiers in Plant Science, 2018, 9, 407.	1.7	44
110	Interactive effects of CO_2 enrichment and brassinosteroid on CO_2 assimilation and photosynthetic electron transport in Cucumis sativus. Environmental and Experimental Botany, 2012, 75, 98-106.	2.0	43
111	Low O_2 supply is involved in the poor growth in root-restricted plants of tomato (Lycopersicon) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.0	40
112	Tomato-Pseudomonas syringae interactions under elevated CO_2 concentration: the role of stomata. Journal of Experimental Botany, 2015, 66, 307-316.	2.4	40
113	Effects of Potato Virus Y^{NTN} Infection on Gas Exchange and Photosystem 2 Function in Leaves of Solanum tuberosum L.. Photosynthetica, 2004, 42, 417-423.	0.9	39
114	The sub/supraâ€optimal temperatureâ€induced inhibition of photosynthesis and oxidative damage in cucumber leaves are alleviated by grafting onto figleaf gourd/luffa rootstocks. Physiologia Plantarum, 2014, 152, 571-584.	2.6	39
115	Interplay between mitogen-activated protein kinase and nitric oxide in brassinosteroid-induced pesticide metabolism in Solanum lycopersicum. Journal of Hazardous Materials, 2016, 316, 221-231.	6.5	39
116	Effects of calcium cyanamide on soil microbial communities and Fusarium oxysporum f. sp. cucumberinum. Chemosphere, 2009, 75, 872-877.	4.2	37
117	Enhanced photosynthetic capacity and antioxidant potential mediate brassinosteriod-induced phenanthrene stress tolerance in tomato. Environmental Pollution, 2015, 201, 58-66.	3.7	37
118	Induction of systemic resistance in tomato against Botrytis cinerea by N-decanoyl-homoserine lactone via jasmonic acid signaling. Planta, 2018, 247, 1217-1227.	1.6	37
119	Glutaredoxin GRXS16 mediates brassinosteroid-induced apoplastic H_2O_2 production to promote pesticide metabolism in tomato. Environmental Pollution, 2018, 240, 227-234.	3.7	37
120	Nitrogen forms and metabolism affect plant defence to foliar and root pathogens in tomato. Plant, Cell and Environment, 2021, 44, 1596-1610.	2.8	37
121	The phyBâ€dependent induction of HY5 promotes iron uptake by systemically activating <i>FER</i> expression. EMBO Reports, 2021, 22, e51944.	2.0	37
122	Transcriptomic and genetic approaches reveal an essential role of the NAC transcription factor SlNAP1 in the growth and defense response of tomato. Horticulture Research, 2020, 7, 209.	2.9	37
123	Diurnal variations in gas exchange, chlorophyll fluorescence quenching and light allocation in soybean leaves: The cause for midday depression in CO_2 assimilation. Scientia Horticulturae, 2006, 110, 214-218.	1.7	35
124	Phosphorus and magnesium interactively modulate the elongation and directional growth of primary roots in Arabidopsis thaliana (L.) Heynh. Journal of Experimental Botany, 2015, 66, 3841-3854.	2.4	35
125	The <scp>miR164aâ€NAM3</scp> module confers cold tolerance by inducing ethylene production in tomato. Plant Journal, 2022, 111, 440-456.	2.8	35
126	Hinoki (Chamaecyparis obtusa) bark, a substrate with anti-pathogen properties that suppress some root diseases of tomato. Scientia Horticulturae, 1999, 81, 13-24.	1.7	34

#	Article	IF	Citations
127	Interactions between 2-Cys peroxiredoxins and ascorbate in autophagosome formation during the heat stress response in<i>Solanum lycopersicum</i>. Journal of Experimental Botany, 2016, 67, 1919-1933.	2.4	34
128	Unraveling Main Limiting Sites of Photosynthesis under Below- and Above-Ground Heat Stress in Cucumber and the Alleviatory Role of Luffa Rootstock. Frontiers in Plant Science, 2016, 7, 746.	1.7	33
129	Chloroplastic thioredoxin-f and thioredoxin-m1/4 play important roles in brassinosteroids-induced changes in CO2 assimilation and cellular redox homeostasis in tomato. Journal of Experimental Botany, 2014, 65, 4335-4347.	2.4	32
130	Ethylene response factors 15 and 16 trigger jasmonate biosynthesis in tomato during herbivore resistance. Plant Physiology, 2021, 185, 1182-1197.	2.3	32
131	Melatonin promotes metabolism of bisphenol A by enhancing glutathione-dependent detoxification in Solanum lycopersicum L. Journal of Hazardous Materials, 2020, 388, 121727.	6.5	31
132	Root restriction-induced limitation to photosynthesis in tomato (Lycopersicon esculentum Mill.) leaves. Scientia Horticulturae, 2008, 117, 197-202.	1.7	30
133	Lightâ€dependent activation of HY5 promotes mycorrhizal symbiosis in tomato by systemically regulating strigolactone biosynthesis. New Phytologist, 2022, 233, 1900-1914.	3.5	30
134	Different effects ofÂchilling onÂrespiration inÂleaves andÂroots ofÂcucumber (CucumisÂsativus). Plant Physiology and Biochemistry, 2006, 44, 837-843.	2.8	29
135	Brassinosteroid improves seed germination and early development of tomato seedling under phenanthrene stress. Plant Growth Regulation, 2012, 68, 87-96.	1.8	28
136	Tomato photorespiratory glycolateâ€oxidaseâ€derived H₂O₂ production contributes to basal defence against <i>Pseudomonas syringae</i>. Plant, Cell and Environment, 2018, 41, 1126-1138.	2.8	28
137	Glutaredoxin S25 and its interacting TGACG motif-binding factor TGA2 mediate brassinosteroid-induced chlorothalonil metabolism in tomato plants. Environmental Pollution, 2019, 255, 113256.	3.7	28
138	A novel <scp>CO</scp>₂â€responsive systemic signaling pathway controlling plant mycorrhizal symbiosis. New Phytologist, 2019, 224, 106-116.	3.5	28
139	Effects of Phenylcarboxylic Acids on Mitosis, Endoreduplication and Expression of Cell Cycle-Related Genes in Roots of Cucumber (Cucumis sativus L.). Journal of Chemical Ecology, 2009, 35, 679-688.	0.9	27
140	Mitochondrial retrograde regulation tuning fork in nuclear genes expressions of higher plants. Journal of Genetics and Genomics, 2008, 35, 65-71.	1.7	26
141	High CO₂â€•and pathogenâ€driven expression of the carbonic anhydrase Î²CA3 confers basal immunity in tomato. New Phytologist, 2021, 229, 2827-2843.	3.5	26
142	Effects of Simulated Acid Precipitation on Photosynthesis, Chlorophyll Fluorescence, and Antioxidative Enzymes in Cucumis sativus L.. Photosynthetica, 2002, 40, 331-335.	0.9	25
143	ROS mediate brassinosteroids-induced plant stress responses. Plant Signaling and Behavior, 2010, 5, 532-534.	1.2	24
144	Role of Hormones in Plant Adaptation to Heat Stress. , 2016, , 1-21.		23

#	Article	IF	Citations
145	Expression of CycD3 is transiently increased by pollination and N-(2-chloro-4-pyridyl)-Nâ€²-phenylurea in ovaries of Lagenaria leucantha. Journal of Experimental Botany, 2003, 54, 1245-1251.	2.4	22
146	Light-induced systemic resistance in tomato plants against root-knot nematode Meloidogyne incognita. Plant Growth Regulation, 2015, 76, 167-175.	1.8	22
147	The Chromosome-Scale Genome of Melon Dissects Genetic Architecture of Important Agronomic Traits. IScience, 2020, 23, 101422.	1.9	22
148	Melatonin delays darkâ€induced leaf senescence by inducing <i>miR171b</i> expression in tomato. Journal of Pineal Research, 2022, 72, .	3.4	22
149	Flexible change and cooperation between mitochondrial electron transport and cytosolic glycolysis as the basis for chilling tolerance in tomato plants. Planta, 2013, 237, 589-601.	1.6	21
150	ELONGATED HYPOCOTYL 5 mediates blue light-induced starch degradation in tomato. Journal of Experimental Botany, 2021, 72, 2627-2641.	2.4	21
151	Mitochondrial nad2 gene is co-transcripted with CMS-associated orfB gene in cytoplasmic male-sterile stem mustard (Brassica juncea). Molecular Biology Reports, 2009, 36, 345-351.	1.0	20
152	Selective trans-Cinnamic Acid Uptake Impairs [Ca2+]cyt Homeostasis and Growth in Cucumis sativus L.. Journal of Chemical Ecology, 2009, 35, 1471-1477.	0.9	20
153	Temperature effects on the reactive oxygen species formation and antioxidant defence in roots of two cucurbit species with contrasting root zone temperature optima. Acta Physiologiae Plantarum, 2012, 34, 713-720.	1.0	20
154	Light-induced HY5 Functions as a Systemic Signal to Coordinate the Photoprotective Response to Light Fluctuation. Plant Physiology, 2020, 184, 1181-1193.	2.3	20
155	Effects of Root and Foliar Applications of 24-Epibrassinolide on Fusarium Wilt and Antioxidant Metabolism in Cucumber Roots. Hortscience: A Publication of the American Society for Hortcultural Science, 2009, 44, 1340-1345.	0.5	20
156	Physiological and Transcriptome Responses to Combinations of Elevated CO2 and Magnesium in Arabidopsis thaliana. PLoS ONE, 2016, 11, e0149301.	1.1	19
157	The relationship between the plant-encoded RNA-dependent RNA polymerase 1 and alternative oxidase in tomato basal defense against Tobacco mosaic virus. Planta, 2015, 241, 641-650.	1.6	18
158	Adaptation of cucurbit species to changes in substrate temperature: Root growth, antioxidants, and peroxidation. Journal of Plant Biology, 2007, 50, 527-532.	0.9	17
159	Decreased energy synthesis is partially compensated by a switch to sucrose synthase pathway of sucrose degradation in restricted root of tomato plants. Plant Physiology and Biochemistry, 2008, 46, 1040-1044.	2.8	16
160	Nitric oxide is involved in the oxytetracycline-induced suppression of root growth through inhibiting hydrogen peroxide accumulation in the root meristem. Scientific Reports, 2017, 7, 43096.	1.6	16
161	COP9 Signalosome CSN4 and CSN5 Subunits Are Involved in Jasmonate-Dependent Defense Against Root-Knot Nematode in Tomato. Frontiers in Plant Science, 2019, 10, 1223.	1.7	16
162	Crosstalk between Brassinosteroid and Redox Signaling Contributes to the Activation of CBF Expression during Cold Responses in Tomato. Antioxidants, 2021, 10, 509.	2.2	16

#	Article	IF	Citations
163	Application of 24-epibrassinolide decreases the susceptibility to cucumber mosaic virus in zucchini (Cucurbita pepo L). Scientia Horticulturae, 2015, 195, 116-123.	1.7	14
164	A novel ethylene responsive factor CitERF13 plays a role in photosynthesis regulation. Plant Science, 2017, 256, 112-119.	1.7	14
165	Importance of the mitochondrial alternative oxidase (AOX) pathway in alleviating photoinhibition in cucumber leaves under chilling injury and subsequent recovery when leaves are subjected to high light intensity. Journal of Horticultural Science and Biotechnology, 2017, 92, 31-38.	0.9	14
166	Greenhouse and field cucumber genotypes use different mechanisms to protect against dark chilling. Functional Plant Biology, 2004, 31, 1215.	1.1	14
167	Rosmarinic Acid Delays Tomato Fruit Ripening by Regulating Ripening-Associated Traits. Antioxidants, 2021, 10, 1821.	2.2	14
168	Induction and origin of adventitious roots from chimeras of Brassica juncea and Brassica oleracea. Plant Cell, Tissue and Organ Culture, 2010, 101, 287-294.	1.2	13
169	NPR1-dependent salicylic acid signaling is not involved in elevated CO₂-induced heat stress tolerance in <i>Arabidopsis thaliana</i>. Plant Signaling and Behavior, 2015, 10, e1011944.	1.2	13
170	MADS-box genes are associated with cytoplasmic homeosis in cytoplasmic male-sterile stem mustard as partially mimicked by specifically inhibiting mtETC. Plant Growth Regulation, 2008, 56, 191-201.	1.8	12
171	Alterations of RNA Editing for the Mitochondrial ATP9 Gene in a New orf220-type Cytoplasmic Male-sterile Line of Stem Mustard (Brassica juncea var. tumida). Journal of Integrative Plant Biology, 2007, 49, 672-677.	4.1	10
172	Relationship between cytoplasmic male sterility and <i>SPLâ€like</i> gene expression in stem mustard. Physiologia Plantarum, 2008, 133, 426-434.	2.6	10
173	Effects of Fusarium oxysporum on rhizosphere microbial communities of two cucumber genotypes with contrasting Fusarium wilt resistance under hydroponic condition. European Journal of Plant Pathology, 2014, 140, 643-653.	0.8	10
174	BRASSINAZOLE RESISTANT 1 Mediates Brassinosteroid-Induced Calvin Cycle to Promote Photosynthesis in Tomato. Frontiers in Plant Science, 2021, 12, 811948.	1.7	10
175	The critical role of autophagy in plant responses to abiotic stresses. Frontiers of Agricultural Science and Engineering, 2017, 4, 28.	0.9	9
176	Glucose sensing by regulator of G protein signaling 1 (<scp>RGS1</scp>) plays a crucial role in coordinating defense in response to environmental variation in tomato. New Phytologist, 2022, 236, 561-575.	3.5	8
177	Detecting crop population growth using chlorophyll fluorescence imaging. Applied Optics, 2017, 56, 9762.	0.9	6
178	Exogenous Rosmarinic Acid Application Enhances Thermotolerance in Tomatoes. Plants, 2022, 11, 1172.	1.6	6
179	High Nitric Oxide Concentration Inhibits Photosynthetic Pigment Biosynthesis by Promoting the Degradation of Transcription Factor HY5 in Tomato. International Journal of Molecular Sciences, 2022, 23, 6027.	1.8	6
180	Brassinosteroids promote starch synthesis and the implication in low-light stress tolerance in Solanum lycopersicum. Environmental and Experimental Botany, 2022, 201, 104990.	2.0	5

#	Article	IF	Citations
181	Genetic and heterosis analysis for important agronomic traits of Chinese vegetable mustard (Brassica) Tj ETQq1 1 0.784314 rgBT /Overl	0.5	3
182	Effects of pollination and N-(2-chloro-4-pyridyl)-N-phenylurea on the expression of acid invertase in ovaries of Lagenaria leucantha. Plant Growth Regulation, 2004, 42, 263-270.	1.8	1
183	A New Strategy in Observer Modeling for Greenhouse Cucumber Seedling Growth. Frontiers in Plant Science, 2017, 8, 1297.	1.7	1
184	Brassinosteroids' regulation of plant architecture. , 2022, , 43-57.		1
185	S-Nitrosoglutathione Reductase Contributes to Thermotolerance by Modulating High Temperature-Induced Apoplastic H2O2 in Solanum lycopersicum. Frontiers in Plant Science, 2022, 13, 862649.	1.7	0