

Junying Shi

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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.

100
papers

5,604
citations

39
h-index

73
g-index

105
ext. papers

7,210
ext. citations

6.4
avg, IF

5.58
L-index

#	Paper	IF	Citations
100	Reactive oxygen species are involved in brassinosteroid-induced stress tolerance in cucumber. <i>Plant Physiology</i> , 2009 , 150, 801-14	6.6	507
99	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
98	Neglecting legumes has compromised human health and sustainable food production. <i>Nature Plants</i> , 2016 , 2, 16112	11.5	344
97	Brassinosteroids Alleviate Heat-Induced Inhibition of Photosynthesis by Increasing Carboxylation Efficiency and Enhancing Antioxidant Systems in <i>Lycopersicon esculentum</i> . <i>Journal of Plant Growth Regulation</i> , 2008 , 27, 49-57	4.7	207
96	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
95	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
94	Melatonin enhances thermotolerance by promoting cellular protein protection in tomato plants. <i>Journal of Pineal Research</i> , 2016 , 61, 457-469	10.4	146
93	Melatonin mediates selenium-induced tolerance to cadmium stress in tomato plants. <i>Journal of Pineal Research</i> , 2016 , 61, 291-302	10.4	140
92	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
91	HsfA1a upregulates melatonin biosynthesis to confer cadmium tolerance in tomato plants. <i>Journal of Pineal Research</i> , 2017 , 62, e12387	10.4	130
90	Induction of systemic stress tolerance by brassinosteroid in <i>Cucumis sativus</i> . <i>New Phytologist</i> , 2011 , 191, 706-720	9.8	113
89	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
88	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
87	Hydrogen peroxide is involved in the cold acclimation-induced chilling tolerance of tomato plants. <i>Plant Physiology and Biochemistry</i> , 2012 , 60, 141-9	5.4	106
86	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
85	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
84	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

83	Identification of multiple salicylic acid-binding proteins using two high throughput screens. <i>Frontiers in Plant Science</i> , 2014 , 5, 777	6.2	93
82	Light quality affects incidence of powdery mildew, expression of defence-related genes and associated metabolism in cucumber plants. <i>European Journal of Plant Pathology</i> , 2010 , 127, 125-135	2.1	88
81	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
80	Systemic induction and role of mitochondrial alternative oxidase and nitric oxide in a compatible tomato-Tobacco mosaic virus interaction. <i>Molecular Plant-Microbe Interactions</i> , 2010 , 23, 39-48	3.6	75
79	Brassinosteroids play a critical role in the regulation of pesticide metabolism in crop plants. <i>Scientific Reports</i> , 2015 , 5, 9018	4.9	73
78	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
77	Effects of cucumber mosaic virus infection on electron transport and antioxidant system in chloroplasts and mitochondria of cucumber and tomato leaves. <i>Physiologia Plantarum</i> , 2009 , 135, 246-574.6	4.6	66
76	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
75	Stimulated leaf dark respiration in tomato in an elevated carbon dioxide atmosphere. <i>Scientific Reports</i> , 2013 , 3, 3433	4.9	57
74	BZR1 Mediates Brassinosteroid-Induced Autophagy and Nitrogen Starvation in Tomato. <i>Plant Physiology</i> , 2019 , 179, 671-685	6.6	53
73	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
72	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
71	Light Signaling-Dependent Regulation of Photoinhibition and Photoprotection in Tomato. <i>Plant Physiology</i> , 2018 , 176, 1311-1326	6.6	52
70	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
69	Carbon dioxide enrichment alleviates heat stress by improving cellular redox homeostasis through an ABA-independent process in tomato plants. <i>Plant Biology</i> , 2015 , 17, 81-9	3.7	48
68	Brassinosteroids Act as a Positive Regulator of Photoprotection in Response to Chilling Stress. <i>Plant Physiology</i> , 2019 , 180, 2061-2076	6.6	46
67	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
66	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

65	Systemic Root-Shoot Signaling Drives Jasmonate-Based Root Defense against Nematodes. <i>Current Biology</i> , 2019 , 29, 3430-3438.e4	6.3	43
64	The reduction of reactive oxygen species formation by mitochondrial alternative respiration in tomato basal defense against TMV infection. <i>Planta</i> , 2012 , 235, 225-38	4.7	43
63	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
62	Detached leaves of tomato differ in their photosynthetic physiological response to moderate high and low temperature stress. <i>Scientia Horticulturae</i> , 2009 , 123, 17-22	4.1	40
61	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. <i>PLoS ONE</i> , 2013 , 8, e76090	3.7	39
60	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
59	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
58	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
57	Grafting cucumber onto luffa improves drought tolerance by increasing ABA biosynthesis and sensitivity. <i>Scientific Reports</i> , 2016 , 6, 20212	4.9	37
56	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
55	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
54	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
53	Redox Signaling and CBF-Responsive Pathway Are Involved in Salicylic Acid-Improved Photosynthesis and Growth under Chilling Stress in Watermelon. <i>Frontiers in Plant Science</i> , 2016 , 7, 1519	6.2	35
52	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
51	Photoinhibition-induced reduction in photosynthesis is alleviated by abscisic acid, cytokinin and brassinosteroid in detached tomato leaves. <i>Plant Growth Regulation</i> , 2010 , 60, 175-182	3.2	34
50	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
49	Elevated CO ₂ Improves Photosynthesis Under High Temperature by Attenuating the Functional Limitations to Energy Fluxes, Electron Transport and Redox Homeostasis in Tomato Leaves. <i>Frontiers in Plant Science</i> , 2018 , 9, 1739	6.2	34
48	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

47	Effects of aqueous root extracts and hydrophobic root exudates of cucumber (<i>Cucumis sativus</i> L.) on nuclei DNA content and expression of cell cycle-related genes in cucumber radicles. <i>Plant and Soil</i> , 2010 , 327, 455-463	4.2	32
46	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
45	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
44	Effects of calcium cyanamide on soil microbial communities and <i>Fusarium oxysporum</i> f. sp. <i>cucumerinum</i> . <i>Chemosphere</i> , 2009 , 75, 872-7	8.4	28
43	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
42	Strigolactones positively regulate defense against root-knot nematodes in tomato. <i>Journal of Experimental Botany</i> , 2019 , 70, 1325-1337	7	27
41	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
40	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
39	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
38	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
37	Role of ethylene biosynthesis and signaling in elevated CO ₂ -induced heat stress response in tomato. <i>Planta</i> , 2019 , 250, 563-572	4.7	22
36	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
35	Induction of systemic resistance in tomato against <i>Botrytis cinerea</i> by N-decanoyl-homoserine lactone via jasmonic acid signaling. <i>Planta</i> , 2018 , 247, 1217-1227	4.7	21
34	A novel CO ₂ -responsive systemic signaling pathway controlling plant mycorrhizal symbiosis. <i>New Phytologist</i> , 2019 , 224, 106-116	9.8	20
33	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
32	Stomatal movements are involved in elevated CO ₂ -mitigated high temperature stress in tomato. <i>Physiologia Plantarum</i> , 2019 , 165, 569-583	4.6	17
31	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
30	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

29	Flexible change and cooperation between mitochondrial electron transport and cytosolic glycolysis as the basis for chilling tolerance in tomato plants. <i>Planta</i> , 2013 , 237, 589-601	4.7	16
28	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
27	Tomato photorespiratory glycolate-oxidase-derived H ₂ O ₂ production contributes to basal defence against <i>Pseudomonas syringae</i> . <i>Plant, Cell and Environment</i> , 2018 , 41, 1126-1138	8.4	14
26	The relationship between the plant-encoded RNA-dependent RNA polymerase 1 and alternative oxidase in tomato basal defense against Tobacco mosaic virus. <i>Planta</i> , 2015 , 241, 641-50	4.7	14
25	Microbial community responses associated with the development of <i>Fusarium oxysporum</i> f. sp. <i>cucumerinum</i> after 24-epibrassinolide applications to shoots and roots in cucumber. <i>European Journal of Plant Pathology</i> , 2009 , 124, 141-150	2.1	14
24	The Response of Antioxidant Enzymes in Cellular Organelles in Cucumber (<i>Cucumis sativus</i> L.) Leaves to Methyl Viologen-induced Photo-oxidative Stress. <i>Plant Growth Regulation</i> , 2006 , 49, 85-93	3.2	14
23	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
22	Application of 24-epibrassinolide decreases the susceptibility to cucumber mosaic virus in zucchini (<i>Cucurbita pepo</i> L). <i>Scientia Horticulturae</i> , 2015 , 195, 116-123	4.1	13
21	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
20	Decreased energy synthesis is partially compensated by a switch to sucrose synthase pathway of sucrose degradation in restricted root of tomato plants. <i>Plant Physiology and Biochemistry</i> , 2008 , 46, 1040-4	5.4	13
19	Transcriptomic and genetic approaches reveal an essential role of the NAC transcription factor SINAP1 in the growth and defense response of tomato. <i>Horticulture Research</i> , 2020 , 7, 209	7.7	13
18	Natural variation for unusual host responses and flagellin-mediated immunity against <i>Pseudomonas syringae</i> in genetically diverse tomato accessions. <i>New Phytologist</i> , 2019 , 223, 447-461	9.8	12
17	NPR1-dependent salicylic acid signaling is not involved in elevated CO ₂ -induced heat stress tolerance in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2015 , 10, e1011944	2.5	12
16	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
15	The protein kinase CPK28 phosphorylates ascorbate peroxidase and enhances thermotolerance in tomato. <i>Plant Physiology</i> , 2021 , 186, 1302-1317	6.6	9
14	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
13	Combined genomic, transcriptomic, and metabolomic analyses provide insights into chayote (<i>Sechium edule</i>) evolution and fruit development. <i>Horticulture Research</i> , 2021 , 8, 35	7.7	9
12	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

11	Strigolactones positively regulate abscisic acid-dependent heat and cold tolerance in tomato. <i>Horticulture Research</i> , 2021 , 8, 237	7.7	8
10	The phyB-dependent induction of HY5 promotes iron uptake by systemically activating FER expression. <i>EMBO Reports</i> , 2021 , 22, e51944	6.5	8
9	Nitrogen forms and metabolism affect plant defence to foliar and root pathogens in tomato. <i>Plant, Cell and Environment</i> , 2021 , 44, 1596-1610	8.4	8
8	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
7	The genome and transcriptome analysis of snake gourd provide insights into its evolution and fruit development and ripening. <i>Horticulture Research</i> , 2020 , 7, 199	7.7	6
6	Noncoding RNAs: functional regulatory factors in tomato fruit ripening. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 1753-1762	6	5
5	A Novel Role of Pipecolic Acid Biosynthetic Pathway in Drought Tolerance through the Antioxidant System in Tomato.. <i>Antioxidants</i> , 2021 , 10,	7.1	5
4	High CO ₂ - and pathogen-driven expression of the carbonic anhydrase CA3 confers basal immunity in tomato. <i>New Phytologist</i> , 2021 , 229, 2827-2843	9.8	5
3	An Essential Role of Mitochondrial α -Ketoglutarate Dehydrogenase E2 in the Basal Immune Response Against Bacterial Pathogens in Tomato. <i>Frontiers in Plant Science</i> , 2020 , 11, 579772	6.2	4
2	N-decanoyl-homoserine lactone alleviates elevated CO ₂ -induced defense suppression to Botrytis cinerea in tomato. <i>Scientia Horticulturae</i> , 2020 , 268, 109353	4.1	2
1	The Glutamate Receptor Plays a Role in Defense against Botrytis cinerea through Electrical Signaling in Tomato. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11217	2.6	0