

# Zhong-Hua Tang

## List of Publications by Year in descending order

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86  
papers

1,982  
citations

257450

24  
h-index

302126

39  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant 22-nt siRNAs mediate translational repression and stress adaptation. <i>Nature</i> , 2020, 581, 89-93.	27.8	112
2	Ethylene improves <i>Arabidopsis</i> salt tolerance mainly via retaining K <sup>+</sup> in shoots and roots rather than decreasing tissue Na <sup>+</sup> content. <i>Environmental and Experimental Botany</i> , 2013, 86, 60-69.	4.2	86
3	The integration of GC-MS and LC-MS to assay the metabolomics profiling in <i>Panax ginseng</i> and <i>Panax quinquefolius</i> reveals a tissue- and species-specific connectivity of primary metabolites and ginsenosides accumulation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 135, 176-185.	2.8	85
4	The improved resistance to high salinity induced by trehalose is associated with ionic regulation and osmotic adjustment in <i>Catharanthus roseus</i> . <i>Plant Physiology and Biochemistry</i> , 2014, 77, 140-148.	5.8	83
5	Ethylene promotes germination of <i>Arabidopsis</i> seed under salinity by decreasing reactive oxygen species: Evidence for the involvement of nitric oxide simulated by sodium nitroprusside. <i>Plant Physiology and Biochemistry</i> , 2013, 73, 211-218.	5.8	73
6	Evolutionary process of saline-water intrusion in Holocene and Late Pleistocene groundwater in southern Laizhou Bay. <i>Science of the Total Environment</i> , 2017, 607-608, 586-599.	8.0	71
7	Ethylene increases accumulation of compatible solutes and decreases oxidative stress to improve plant tolerance to water stress in <i>Arabidopsis</i> . <i>Journal of Plant Biology</i> , 2015, 58, 193-201.	2.1	68
8	Differential Regulation of Anthocyanins in Green and Purple Turnips Revealed by Combined De Novo Transcriptome and Metabolome Analysis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4387.	4.1	66
9	Exogenous trehalose largely alleviates ionic unbalance, ROS burst, and PCD occurrence induced by high salinity in <i>Arabidopsis</i> seedlings. <i>Frontiers in Plant Science</i> , 2014, 5, 570.	3.6	65
10	Hydrogeochemical Characterization and Suitability Assessment of Groundwater: A Case Study in Central Sindh, Pakistan. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 886.	2.6	64
11	Ethylene Improves Root System Development under Cadmium Stress by Modulating Superoxide Anion Concentration in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 253.	3.6	60
12	Differential responses to Cd stress induced by exogenous application of Cu, Zn or Ca in the medicinal plant <i>Catharanthus roseus</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 157, 266-275.	6.0	52
13	Gene transcript profiles of the TIA biosynthetic pathway in response to ethylene and copper reveal their interactive role in modulating TIA biosynthesis in <i>Catharanthus roseus</i> . <i>Protoplasma</i> , 2015, 252, 813-824.	2.1	49
14	Combining AHP and genetic algorithms approaches to modify DRASTIC model to assess groundwater vulnerability: a case study from Jiangnan Plain, China. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	48
15	Ethylene Antagonizes Salt-Induced Growth Retardation and Cell Death Process via Transcriptional Controlling of Ethylene-, BAG- and Senescence-Associated Genes in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 696.	3.6	45
16	The Combined Effects of Ethylene and MeJA on Metabolic Profiling of Phenolic Compounds in <i>Catharanthus roseus</i> Revealed by Metabolomics Analysis. <i>Frontiers in Physiology</i> , 2016, 7, 217.	2.8	42
17	Comparative Study of Growth, Cadmium Accumulation and Tolerance of Three Chickpea ( <i>Cicer</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.5	41
18	A rapid method for sensitive profiling of bioactive triterpene and flavonoid from <i>Astragalus mongholicus</i> and <i>Astragalus membranaceus</i> by ultra-pressure liquid chromatography with tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1085, 110-118.	2.3	39

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19	Exogenous ethylene enhanced the cadmium resistance and changed the alkaloid biosynthesis in <i>Catharanthus roseus</i> seedlings. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1.	2.1	38
20	Ethylene antagonizes the inhibition of germination in <i>Arabidopsis</i> induced by salinity by modulating the concentration of hydrogen peroxide. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1895-1904.	2.1	35
21	NO Promotes Seed Germination and Seedling Growth Under High Salt May Depend on EIN3 Protein in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 1203.	3.6	35
22	An Insight into Abiotic Stress and Influx Tolerance Mechanisms in Plants to Cope in Saline Environments. <i>Biology</i> , 2022, 11, 597.	2.8	32
23	GC-MS Metabolomic Analysis to Reveal the Metabolites and Biological Pathways Involved in the Developmental Stages and Tissue Response of <i>Panax ginseng</i> . <i>Molecules</i> , 2017, 22, 496.	3.8	28
24	Metabolomics Analysis Reveals that Ethylene and Methyl Jasmonate Regulate Different Branch Pathways to Promote the Accumulation of Terpenoid Indole Alkaloids in <i>Catharanthus roseus</i> . <i>Journal of Natural Products</i> , 2018, 81, 335-342.	3.0	28
25	Discrete Fracture Network Modelling in a Naturally Fractured Carbonate Reservoir in the Jingbei Oilfield, China. <i>Energies</i> , 2017, 10, 183.	3.1	27
26	Transcriptomics comparison reveals the diversity of ethylene and methyl-jasmonate in roles of TIA metabolism in <i>Catharanthus roseus</i> . <i>BMC Genomics</i> , 2018, 19, 508.	2.8	27
27	Physiological responses of <i>Catharanthus roseus</i> to different nitrogen forms. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 589-598.	2.1	25
28	UV-B Radiation Largely Promoted the Transformation of Primary Metabolites to Phenols in <i>Astragalus mongholicus</i> Seedlings. <i>Biomolecules</i> , 2020, 10, 504.	4.0	25
29	The impacts of increased nitrate supply on <i>Catharanthus roseus</i> growth and alkaloid accumulations under ultraviolet-B stress. <i>Journal of Plant Interactions</i> , 2014, 9, 640-646.	2.1	23
30	The Different Resistance of Two <i>Astragalus</i> Plants to UV-B Stress is Tightly Associated with the Organ-specific Isoflavone Metabolism. <i>Photochemistry and Photobiology</i> , 2018, 94, 115-125.	2.5	22
31	Ethylene-Induced Vinblastine Accumulation Is Related to Activated Expression of Downstream TIA Pathway Genes in <i>Catharanthus roseus</i> . <i>BioMed Research International</i> , 2016, 2016, 1-8.	1.9	21
32	A Comparative Metabolomics Analysis Reveals the Tissue-Specific Phenolic Profiling in Two <i>Acanthopanax</i> Species. <i>Molecules</i> , 2018, 23, 2078.	3.8	20
33	Multivariate Analysis and Geochemical Signatures of Shallow Groundwater in the Main Urban Area of Chongqing, Southwestern China. <i>Water (Switzerland)</i> , 2020, 12, 2833.	2.7	20
34	Alkaloid variations in <i>Catharanthus roseus</i> seedlings treated by different temperatures in short term and long term. <i>Journal of Forestry Research</i> , 2007, 18, 313-315.	3.6	19
35	Two-dimensional flow response to tidal fluctuation in a heterogeneous aquifer-aquitard system. <i>Hydrological Processes</i> , 2015, 29, 927-935.	2.6	19
36	Simultaneous determination of six active metabolites in <i>Astragalus mongholicus</i> (Fisch.) Bge. under salt stress by ultra-pressure liquid chromatography with tandem mass spectrometry. <i>SpringerPlus</i> , 2016, 5, 927.	1.2	18

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37	Profiling of ginsenosides in the two medicinal Panax herbs based on ultra-performance liquid chromatography-electrospray ionization–mass spectrometry. SpringerPlus, 2016, 5, 1770.	1.2	17
38	A bZIP transcription factor, CaLMF, mediated light-regulated camptothecin biosynthesis in <i>Camptotheca acuminata</i> . Tree Physiology, 2019, 39, 372-380.	3.1	17
39	Effects of Exogenous Calcium on Adaptive Growth, Photosynthesis, Ion Homeostasis and Phenolics of <i>Gleditsia sinensis</i> Lam. Plants under Salt Stress. Agriculture (Switzerland), 2021, 11, 978.	3.1	17
40	Determination of Alkaloids in <i>Catharanthus roseus</i> and <i>Vinca minor</i> by High-Performance Liquid Chromatography–Tandem Mass Spectrometry. Analytical Letters, 2016, 49, 1143-1153.	1.8	16
41	Comparison of the global metabolic responses to UV-B radiation between two medicinal <i>Astragalus</i> species: An integrated metabolomics strategy. Environmental and Experimental Botany, 2020, 176, 104094.	4.2	16
42	Variations of vinblastine accumulation and redox state affected by exogenous H <sub>2</sub> O <sub>2</sub> in <i>Catharanthus roseus</i> (L.) G. Don. Plant Growth Regulation, 2009, 57, 15-20.	3.4	15
43	The inhibited seed germination by ABA and MeJA is associated with the disturbance of reserve utilizations in <i>Astragalus membranaceus</i> . Journal of Plant Interactions, 2018, 13, 388-397.	2.1	15
44	Transcriptome and proteome analysis suggest enhanced photosynthesis in tetraploid <i>Liriodendron sino-americanum</i> . Tree Physiology, 2021, 41, 1953-1971.	3.1	14
45	The influence of different forms and concentrations of potassium nutrition on growth and alkaloid metabolism in <i>Catharanthus roseus</i> seedlings. Journal of Plant Interactions, 2014, 9, 370-377.	2.1	13
46	Application of virus-induced gene silencing approach in <i>Camptotheca acuminata</i> . Plant Cell, Tissue and Organ Culture, 2016, 126, 533-540.	2.3	13
47	Light enhanced the biosynthesis of terpenoid indole alkaloids to meet the opening of cotyledons in process of photomorphogenesis of <i>Catharanthus roseus</i> . Plant Growth Regulation, 2018, 84, 617-626.	3.4	13
48	Responses of submarine groundwater to silty-sand coast reclamation: A case study in south of Laizhou Bay, China. Estuarine, Coastal and Shelf Science, 2016, 181, 51-60.	2.1	12
49	Loss-of-function mutation of EIN2 in <i>Arabidopsis</i> exaggerates oxidative stress induced by salinity. Acta Physiologiae Plantarum, 2013, 35, 1319-1328.	2.1	11
50	The specific responses to mechanical wound in leaves and roots of <i>Catharanthus roseus</i> seedlings by metabolomics. Journal of Plant Interactions, 2018, 13, 450-460.	2.1	11
51	Tide-induced groundwater head fluctuation in a coastal aquifer system with a submarine outcrop covered by a thin silt layer. Hydrological Processes, 2008, 22, 605-610.	2.6	10
52	Comparative metabolomics of two saline-alkali tolerant plants <i>Suaeda glauca</i> and <i>Puccinellia tenuiflora</i> based on GC-MS platform. Natural Product Research, 2021, 35, 499-502.	1.8	10
53	Correlation of cultivation time of <i>Panax ginseng</i> with metabolic profiles of nine ginsenosides and mRNA expression of genes encoding major biosynthetic enzymes. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	9
54	Seed metabolite profiling of <i>Vicia</i> species from China via GC-MS. Natural Product Research, 2018, 32, 1863-1866.	1.8	9

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55	Arbuscular mycorrhizal fungal diversity is affected by soil salinity and soil nutrients in typical saline-sodic grasslands dominated by <i>Leymus chinensis</i> . <i>Arid Land Research and Management</i> , 2020, 34, 68-82.	1.6	9
56	Comparative analysis of metabolite profiles from <i>Panax</i> herbs in specific tissues and cultivation conditions reveals the strategy of accumulation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 188, 113368.	2.8	9
57	The effects of soil metals on the composition of oil of <i>Paeonia ostii</i> seeds. <i>Journal of Plant Interactions</i> , 2015, 10, 288-295.	2.1	8
58	Differential Metabolite Accumulation in Different Tissues of <i>Gleditsia sinensis</i> under Water Stress and Rehydration Conditions. <i>Forests</i> , 2020, 11, 542.	2.1	7
59	Investigation of bioactivities of <i>Taxus chinensis</i> , <i>Taxus cuspidata</i> , and <i>Taxus ã—media</i> by gas chromatography-mass spectrometry. <i>Open Life Sciences</i> , 2021, 16, 287-296.	1.4	7
60	A source-sink model explains the difference in the metabolic mechanism of mechanical damage to young and senescing leaves in <i>Catharanthus roseus</i> . <i>BMC Plant Biology</i> , 2021, 21, 154.	3.6	7
61	A comprehensive analysis of transcriptome and phenolic compound profiles suggests the role of flavonoids in cotyledon greening in <i>Catharanthus roseus</i> seedling. <i>Plant Physiology and Biochemistry</i> , 2021, 167, 185-197.	5.8	7
62	A role for Ethylene-Insensitive3 in the regulation of hydrogen peroxide production during seed germination under high salinity in <i>Arabidopsis</i> . <i>Acta Physiologiae Plantarum</i> , 2013, 35, 1701-1706.	2.1	6
63	Metabolomics Analysis Reveals Potential Mechanisms in <i>Bupleurum L.</i> (Apiaceae) Induced by Three Levels of Nitrogen Fertilization. <i>Agronomy</i> , 2021, 11, 2291.	3.0	6
64	Comparative Analysis of Endogenous Hormones and Metabolite Profiles in Early-Spring Flowering Plants and Unflowered Plants Revealing the Strategy of Blossom. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 2421-2434.	5.1	5
65	Comparative study on metabolites and elements of two dominant plant communities in saline-alkali grassland. <i>Environmental and Experimental Botany</i> , 2021, 190, 104587.	4.2	5
66	Ionic and Metabolomic Analyses Reveal Different Response Mechanisms to Saline“Alkali Stress Between <i>Suaeda salsa</i> Community and <i>Puccinellia tenuiflora</i> Community. <i>Frontiers in Plant Science</i> , 2021, 12, 774284.	3.6	5
67	Visualization of Aqueous Geochemical Data Using Python and <code>WQChartPy</code> . <i>Ground Water</i> , 2022, 60, 555-564.	1.3	5
68	Network during light-induced cotyledons opening and greening in <i>Astragalus membranaceus</i> . <i>Journal of Plant Interactions</i> , 2020, 15, 358-370.	2.1	4
69	Cotyledon loss of <i>Astragalus membranaceus</i> hindered seedling establishment through mineral element reallocation and carbohydrate depletion. <i>Plant Physiology and Biochemistry</i> , 2021, 167, 481-491.	5.8	4
70	Changes in Growth and Photosynthetic Parameters and Medicinal Compounds in <i>Eleutherococcus senticosus</i> Harms under Drought Stress. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2019, 54, 2202-2208.	1.0	4
71	Groundwater response to dual tidal fluctuations in a peninsula or an elongated island. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 2456-2470.	3.3	3
72	High NaHCO <sub>3</sub> stress causes direct injury to <i>Nicotiana tabacum</i> roots. <i>Journal of Plant Interactions</i> , 2014, 9, 56-61.	2.1	3

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73	Statistical verification of hydraulic units in a heterogeneous reservoir of the Liaohe Oilfield. Journal of Earth Science (Wuhan, China), 2014, 25, 991-1002.	3.2	3
74	Embryo and seedling morphology of some <i>Trigonella</i> L. species (Fabaceae) and their taxonomic importance. Flora: Morphology, Distribution, Functional Ecology of Plants, 2017, 230, 57-65.	1.2	3
75	Impacts of salinity on CO <sub>2</sub> spatial distribution and storage amount in the formation with different dip angles. Environmental Science and Pollution Research, 2019, 26, 22173-22188.	5.3	3
76	Targeted Development-Dependent Metabolomics Profiling of Bioactive Compounds in <i>Acanthopanax senticosus</i> by UPLC-ESI-MS. Natural Product Communications, 2020, 15, 1934578X2091055.	0.5	3
77	Metabolic differences of two constructive species in saline-alkali grassland in China. BMC Plant Biology, 2022, 22, 53.	3.6	3
78	Study on the Effects of Salt Tolerance Type, Soil Salinity and Soil Characteristics on the Element Composition of Chenopodiaceae Halophytes. Plants, 2022, 11, 1288.	3.5	3
79	Gas chromatography mass spectrometry-based metabolite profiling of two sweet-clover vetches via multivariate data analyses. Botany Letters, 2017, 164, 385-391.	1.4	2
80	Taxonomic implication of embryo-micromorphology in the genus <i>Vicia</i> L. (Fabaceae). Plant Systematics and Evolution, 2018, 304, 33-42.	0.9	2
81	Impacts of injection temperature on the CO <sub>2</sub> injection capacity in the different sloping formations. Environmental Science and Pollution Research, 2020, 27, 33773-33791.	5.3	2
82	Metabolite Profiles Provide Insights into Underlying Mechanism in <i>Bupleurum</i> (Apiaceae) in Response to Three Levels of Phosphorus Fertilization. Plants, 2022, 11, 752.	3.5	2
83	Risk Evaluation for Production-Injection Recompletion and Sidetrack. Energy Exploration and Exploitation, 2011, 29, 235-249.	2.3	1
84	Influence of Holoparasitic Plant <i>Cuscuta japonica</i> on Growth and Alkaloid Content of Its Host Shrub <i>Catharanthus roseus</i> : A Field Experiment. Arabian Journal for Science and Engineering, 2018, 43, 93-100.	3.0	1
85	Integrated Analyses of Metabolomic Profiling and Associated Gene Expression of <i>Catharanthus roseus</i> Seedling Reveal the Metabolic Alternations of Primary Metabolites and Flavonoids During the Apical Hook Opening Phase. Journal of Plant Growth Regulation, 0, , 1.	5.1	1
86	Stability analysis on roof of rock foundation with Karst cave and karst cave &#x2014; surrounding rock. , 2011, , .		0