Xiang-Yang Hu

List of Publications by Year
in descending order

67 papers	2,882 citations	172457 29 h-index	182427 51 g-index
71 all docs	71 docs citations	71 times ranked	3366 citing authors

#	Article	IF	Citations
1	Diketopiperazine Modulates <i>Arabidopsis thaliana</i> Root System Architecture by Promoting Interactions of Auxin Receptor TIR1 and IAA7/17 Proteins. Plant and Cell Physiology, 2022, 63, 57-69.	3.1	6
2	Major episodes of horizontal gene transfer drove the evolution of land plants. Molecular Plant, 2022, 15, 857-871.	8.3	50
3	Transcriptome and proteome analysis suggest enhanced photosynthesis in tetraploid <i>Liriodendron sino-americanum</i>. Tree Physiology, 2021, 41, 1953-1971.	3.1	14
4	The role of Î³-aminobutyric acid in aluminum stress tolerance in a woody plant, Liriodendron chinense Ã— tulipifera. Horticulture Research, 2021, 8, 80.	6.3	25
5	Discovery and modulation of diterpenoid metabolism improves glandular trichome formation, artemisinin production and stress resilience in <i>Artemisia annua</i>. New Phytologist, 2021, 230, 2387-2403.	7.3	18
6	Hydrogen Sulfide Signaling Protects Chlamydomonas reinhardtii Against Allelopathic Damage From Cyanobacterial Toxin Microcystin-LR. Frontiers in Plant Science, 2020, 11, 1105.	3.6	9
7	Enhanced thermotolerance of <i>Arabidopsis</i> by chitooligosaccharides-induced <i>CERK1n-ERc</i> fusion gene. Plant Signaling and Behavior, 2020, 15, 1816322.	2.4	4
8	The Transcriptome of Cunninghamia lanceolata male/female cone reveal the association between MIKC MADS-box genes and reproductive organs development. BMC Plant Biology, 2020, 20, 508.	3.6	15
9	AGAMOUS-LIKE67 Cooperates with the Histone Mark Reader EBS to Modulate Seed Germination under High Temperature. Plant Physiology, 2020, 184, 529-545.	4.8	21
10	Are fungiâ€derived genomic regions related to antagonism towards fungi in mosses?. New Phytologist, 2020, 228, 1169-1175.	7.3	8
11	Plant Colonization of Land: Mining Genes from Bacteria. Trends in Plant Science, 2020, 25, 317-319.	8.8	3
12	A mycorrhizae-like gene regulates stem cell and gametophore development in mosses. Nature Communications, 2020, 11, 2030.	12.8	13
13	A conserved but plant-specific CDK-mediated regulation of DNA replication protein A2 in the precise control of stomatal terminal division. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18126-18131.	7.1	16
14	Expression of FRIGIDA in root inhibits flowering in Arabidopsis thaliana. Journal of Experimental Botany, 2019, 70, 5101-5114.	4.8	17
15	Powerdress as the novel regulator enhances Arabidopsis seeds germination tolerance to high temperature stress by histone modification of SOM locus. Plant Science, 2019, 284, 91-98.	3.6	25
16	The hydrogen sulfide signal enhances seed germination tolerance to high temperatures by retaining nuclear COP1 for HY5 degradation. Plant Science, 2019, 285, 34-43.	3.6	46
17	Cunninghamia lanceolata PSK Peptide Hormone Genes Promote Primary Root Growth and Adventitious Root Formation. Plants, 2019, 8, 520.	3.5	23
18	ABI5-BINDING PROTEIN2 Coordinates CONSTANS to Delay Flowering by Recruiting the Transcriptional Corepressor TPR2. Plant Physiology, 2019, 179, 477-490.	4.8	29

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19	Carbon monoxide signal regulates light-initiated seed germination by suppressing SOM expression. Plant Science, 2018, 272, 88-98.	3.6	23
20	SIP1, a novel SOS2 interaction protein, is involved in salt-stress tolerance in Arabidopsis. Plant Physiology and Biochemistry, 2018, 124, 167-174.	5.8	12
21	Functional FRIGIDA allele enhances drought tolerance by regulating the P5CS1 pathway in Arabidopsis thaliana. Biochemical and Biophysical Research Communications, 2018, 495, 1102-1107.	2.1	19
22	Nitric oxide promotes light-initiated seed germination by repressing PIF1 expression and stabilizing HFR1. Plant Physiology and Biochemistry, 2018, 123, 204-212.	5.8	17
23	Hydrogen sulfide enhances poplar tolerance to high-temperature stress by increasing S-nitrosoglutathione reductase (GSNOR) activity and reducing reactive oxygen/nitrogen damage. Plant Growth Regulation, 2018, 84, 11-23.	3.4	55
24	The glutamate receptors AtGLR1.2 and AtGLR1.3 increase cold tolerance by regulating jasmonate signaling in Arabidopsis thaliana. Biochemical and Biophysical Research Communications, 2018, 506, 895-900.	2.1	45
25	AFP2 as the novel regulator breaks high-temperature-induced seeds secondary dormancy through ABI5 and SOM in Arabidopsis thaliana. Biochemical and Biophysical Research Communications, 2018, 501, 232-238.	2.1	27
26	Chromosome number and genome size variation in Colocasia (Araceae) from China. Journal of Plant Research, 2017, 130, 989-997.	2.4	4
27	High Temperature Induces Expression of Tobacco Transcription Factor NtMYC2a to Regulate Nicotine and JA Biosynthesis. Frontiers in Physiology, 2016, 7, 465.	2.8	20
28	Carbon Monoxide Interacts with Auxin and Nitric Oxide to Cope with Iron Deficiency in Arabidopsis. Frontiers in Plant Science, 2016, 7, 112.	3.6	23
29	The Dynamic Changes of the Plasma Membrane Proteins and the Protective Roles of Nitric Oxide in Rice Subjected to Heavy Metal Cadmium Stress. Frontiers in Plant Science, 2016, 7, 190.	3.6	66
30	The role of nitric oxide signalling in response to salt stress in Chlamydomonas reinhardtii. Planta, 2016, 244, 651-669.	3.2	51
31	Jasmonate mediates salt-induced nicotine biosynthesis in tobacco (Nicotiana tabacum L.). Plant Diversity, 2016, 38, 118-123.	3.7	31
32	Gamma-aminobutyric acid mediates nicotine biosynthesis in tobacco under flooding stress. Plant Diversity, 2016, 38, 53-58.	3.7	18
33	Hydrogen sulfide mediates nicotine biosynthesis in tobacco (Nicotiana tabacum) under high temperature conditions. Plant Physiology and Biochemistry, 2016, 104, 174-179.	5.8	56
34	Alleviation of photosynthetic inhibition in copper-stressed tomatoes through rebalance of ion content by exogenous nitric oxide. Turkish Journal of Botany, 2015, 39, 10-22.	1.2	13
35	Roles of H₂S in adaptation of alpine plants <i>Lamiophlomis rotata</i> to altitude gradients. Plant Signaling and Behavior, 2015, 10, e1055433.	2.4	4
36	Investigating the MicroRNAomes of Two Developmental Phases of Dendrocalamus latiflorus (Poaceae:) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	6

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37	Comparative proteomic analysis reveals the role of hydrogen sulfide in the adaptation of the alpine plant Lamiophlomis rotata to altitude gradient in the Northern Tibetan Plateau. Planta, 2015, 241, 887-906.	3.2	41
38	Quantitative proteomics analysis reveals that S-nitrosoglutathione reductase (GSNOR) and nitric oxide signaling enhance poplar defense against chilling stress. Planta, 2015, 242, 1361-1390.	3.2	64
39	Physiological, biochemical and proteomics analysis reveals the adaptation strategies of the alpine plant Potentilla saundersiana at altitude gradient of the Northwestern Tibetan Plateau. Journal of Proteomics, 2015, 112, 63-82.	2.4	59
40	Para-Aminobenzoic Acid (PABA) Synthase Enhances Thermotolerance of Mushroom Agaricus bisporus. PLoS ONE, 2014, 9, e91298.	2.5	33
41	Comparative Proteomics Analyses of Kobresia pygmaea Adaptation to Environment along an Elevational Gradient on the Central Tibetan Plateau. PLoS ONE, 2014, 9, e98410.	2.5	31
42	Origin of plant auxin biosynthesis in charophyte algae: a reply to Wang et al.. Trends in Plant Science, 2014, 19, 743.	8.8	3
43	Nitric oxide and hydrogen peroxide are important signals mediating the allelopathic response of <i>Arabidopsis</i> to <i>p</i>â€hydroxybenzoic acid. Physiologia Plantarum, 2014, 152, 275-285.	5.2	18
44	Proteasome-Mediated Degradation of FRIGIDA Modulates Flowering Time in <i>Arabidopsis</i> during Vernalization. Plant Cell, 2014, 26, 4763-4781.	6.6	71
45	Quantitative Proteomics Analysis Reveals That the Nuclear Cap-Binding Complex Proteins <i>Arabidopsis</i> CBP20 and CBP80 Modulate the Salt Stress Response. Journal of Proteome Research, 2014, 13, 2495-2510.	3.7	32
46	Isolation and Characterization of IaYABBY2 Gene from Incarvillea arguta. Plant Molecular Biology Reporter, 2014, 32, 1219-1227.	1.8	4
47	Origin of plant auxin biosynthesis. Trends in Plant Science, 2014, 19, 764-770.	8.8	81
48	Comparative Physiological and Proteomic Analyses of Poplar (Populus yunnanensis) Plantlets Exposed to High Temperature and Drought. PLoS ONE, 2014, 9, e107605.	2.5	65
49	Comparative Proteome Analyses Reveal that Nitric Oxide Is an Important Signal Molecule in the Response of Rice to Aluminum Toxicity. Journal of Proteome Research, 2013, 12, 1316-1330.	3.7	88
50	Effect of shade treatment on theanine biosynthesis in Camellia sinensis seedlings. Plant Growth Regulation, 2013, 71, 295-299.	3.4	48
51	A Series of TA-Based and Zero-Background Vectors for Plant Functional Genomics. PLoS ONE, 2013, 8, e59576.	2.5	19
52	<i>N</i>-3-Oxo-Decanoyl-<scp>l</scp>-Homoserine-Lactone Activates Auxin-Induced Adventitious Root Formation via Hydrogen Peroxide- and Nitric Oxide-Dependent Cyclic GMP Signaling in Mung Bean Â Â Â. Plant Physiology, 2012, 158, 725-736.	4.8	144
53	Carbon monoxide enhances the chilling tolerance of recalcitrant Baccaurea ramiflora seeds via nitric oxide-mediated glutathione homeostasis. Free Radical Biology and Medicine, 2012, 53, 710-720.	2.9	79
54	Comparative Proteomic Analysis of the Thermotolerant Plant <i>Portulaca oleracea</i> Acclimation to Combined High Temperature and Humidity Stress. Journal of Proteome Research, 2012, 11, 3605-3623.	3.7	56

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55	Deciphering the Protective Role of Nitric Oxide against Salt Stress at the Physiological and Proteomic Levels in Maize. Journal of Proteome Research, 2011, 10, 4349-4364.	3.7	99
56	Nitric Oxide Enhances Desiccation Tolerance of Recalcitrant Antiaris toxicaria Seeds via Protein S-Nitrosylation and Carbonylation. PLoS ONE, 2011, 6, e20714.	2.5	120
57	Proteomic profiling and redox status alteration of recalcitrant tea (Camellia sinensis) seed in response to desiccation. Planta, 2011, 233, 583-592.	3.2	54
58	Isolation and characterization of 19 new microsatellite loci in <i>Colocasia esculenta</i> (Araceae). American Journal of Botany, 2011, 98, e239-41.	1.7	9
59	Involvements of H2O2 and metallothionein in NO-mediated tomato tolerance to copper toxicity. Journal of Plant Physiology, 2010, 167, 1298-1306.	3.5	89
60	Early signals transduction linking the synthesis of jasmonic acid in plant. Plant Signaling and Behavior, 2009, 4, 696-697.	2.4	60
61	FRIGIDA Delays Flowering in Arabidopsis via a Cotranscriptional Mechanism Involving Direct Interaction with the Nuclear Cap-Binding Complex Â. Plant Physiology, 2009, 150, 1611-1618.	4.8	130
62	Fungal elicitor Pep-25 increases cytosolic calcium ions, H2O2 production and activates the octadecanoid pathway in Arabidopsis thaliana. Planta, 2009, 229, 1201-1208.	3.2	23
63	Nitric Oxide Mediates Gravitropic Bending in Soybean Roots. Plant Physiology, 2005, 137, 663-670.	4.8	276
64	Mitogen-activated protein kinases mediate the oxidative burst and saponin synthesis induced by chitosan in cell cultures of Panax ginseng. Science in China Series C: Life Sciences, 2004, 47, 303.	1.3	14
65	NO-mediated hypersensitive responses of rice suspension cultures induced by incompatible elicitor. Science Bulletin, 2003, 48, 358-363.	1.7	56
66	Hydrogen peroxide and jasmonic acid mediate oligogalacturonic acid-induced saponin accumulation in suspension-cultured cells of Panax ginseng. Physiologia Plantarum, 2003, 118, 414-421.	5.2	97
67	Nitric oxide mediates elicitor-induced saponin synthesis in cell cultures of Panax ginseng. Functional Plant Biology, 2003, 30, 901.	2.1	76