

Yanxi Pei

List of Publications by Year in descending order

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65
papers

3,014
citations

159358

30
h-index

161609

54
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all docs

68
docs citations

68
times ranked

2622
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen sulfide interacting with abscisic acid in stomatal regulation responses to drought stress in Arabidopsis. <i>Plant Physiology and Biochemistry</i> , 2013, 62, 41-46.	2.8	242
2	Hydrogen sulfide improves drought resistance in Arabidopsis thaliana. <i>Biochemical and Biophysical Research Communications</i> , 2011, 414, 481-486.	1.0	225
3	Arginine methylation mediated by the <i>Arabidopsis</i> homolog of PRMT5 is essential for proper pre-mRNA splicing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19114-19119.	3.3	174
4	Hydrogen sulfide interacts with calcium signaling to enhance the chromium tolerance in <i>Setaria italica</i> . <i>Cell Calcium</i> , 2014, 56, 472-481.	1.1	127
5	Hydrogen Sulfide Improves Drought Tolerance in Arabidopsis thaliana by MicroRNA Expressions. <i>PLoS ONE</i> , 2013, 8, e77047.	1.1	103
6	Mutations in the Type II Protein Arginine Methyltransferase AtPRMT5 Result in Pleiotropic Developmental Defects in Arabidopsis. <i>Plant Physiology</i> , 2007, 144, 1913-1923.	2.3	99
7	An emphasis of hydrogen sulfide-cysteine cycle on enhancing the tolerance to chromium stress in Arabidopsis. <i>Environmental Pollution</i> , 2016, 213, 870-877.	3.7	99
8	Involvement of the Histone Acetyltransferase AtHAC1 in the Regulation of Flowering Time via Repression of FLOWERING LOCUS C in Arabidopsis. <i>Plant Physiology</i> , 2007, 143, 1660-1668.	2.3	97
9	Physiological Implications of Hydrogen Sulfide in Plants: Pleasant Exploration behind Its Unpleasant Odour. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-6.	1.9	90
10	Hydrogen sulfide mediates ion fluxes inducing stomatal closure in response to drought stress in Arabidopsis thaliana. <i>Plant and Soil</i> , 2017, 419, 141-152.	1.8	89
11	Hydrogen sulfide alleviates the cold stress through MPK4 in Arabidopsis thaliana. <i>Plant Physiology and Biochemistry</i> , 2017, 120, 112-119.	2.8	85
12	Hydrogen sulfide and proline cooperate to alleviate cadmium stress in foxtail millet seedlings. <i>Plant Physiology and Biochemistry</i> , 2016, 109, 293-299.	2.8	82
13	Involvement of the Histone Acetyltransferase AtHAC1 in the Regulation of Flowering Time via Repression of FLOWERING LOCUS C in Arabidopsis. <i>Plant Physiology</i> , 2007, 143, 1660-1668.	2.3	80
14	Hydrogen Sulfide Alleviates Cadmium-Induced Cell Death through Restraining ROS Accumulation in Roots of <i>Brassica rapa</i> L. ssp. <i>pekinensis</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 1-11.	1.9	80
15	The Ca ²⁺ /calmodulin-binding transcription factor TGA ³ elevates LCD expression and H ₂ S production to bolster Cr ⁶⁺ tolerance in Arabidopsis. <i>Plant Journal</i> , 2017, 91, 1038-1050.	2.8	79
16	Specificity Protein-1 as a Critical Regulator of Human Cystathionine β -Lyase in Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 26450-26460.	1.6	76
17	H ₂ S acting as a downstream signaling molecule of SA regulates Cd tolerance in Arabidopsis. <i>Plant and Soil</i> , 2015, 393, 137-146.	1.8	76
18	Hydrogen sulfide mediates the anti-survival effect of sulforaphane on human prostate cancer cells. <i>Toxicology and Applied Pharmacology</i> , 2011, 257, 420-428.	1.3	73

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19	Regulation of flowering time by the protein arginine methyltransferase AtPRMT10. <i>EMBO Reports</i> , 2007, 8, 1190-1195.	2.0	71
20	The role of H ₂ S in low temperature-induced cucurbitacin C increases in cucumber. <i>Plant Molecular Biology</i> , 2019, 99, 535-544.	2.0	61
21	MicroRNA-21 represses human cystathionine gamma-lyase expression by targeting at specificity protein-1 in smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2012, 227, 3192-3200.	2.0	60
22	Hydrogen Sulfide Regulates Energy Production to Delay Leaf Senescence Induced by Drought Stress in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 1722.	1.7	54
23	Redundant Requirement for a Pair of PROTEIN ARGININE METHYLTRANSFERASE4 Homologs for the Proper Regulation of <i>Arabidopsis</i> Flowering Time. <i>Plant Physiology</i> , 2008, 148, 490-503.	2.3	53
24	H ₂ S is involved in ABA-mediated stomatal movement through MPK4 to alleviate drought stress in <i>Arabidopsis thaliana</i> . <i>Plant and Soil</i> , 2019, 435, 295-307.	1.8	53
25	Cystathionine gamma-lyase/hydrogen sulfide system is essential for adipogenesis and fat mass accumulation in mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 165-176.	1.2	50
26	Hydrogen sulfide inhibits ethylene-induced petiole abscission in tomato (<i>Solanum lycopersicum</i> L.). <i>Horticulture Research</i> , 2020, 7, 14.	2.9	46
27	Role of hydrogen sulfide in the methyl jasmonate response to cadmium stress in foxtail millet. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 530-538.	3.0	44
28	CDPKs enhance Cd tolerance through intensifying H ₂ S signal in <i>Arabidopsis thaliana</i> . <i>Plant and Soil</i> , 2016, 398, 99-110.	1.8	39
29	H ₂ S protects lipopolysaccharide-induced inflammation by blocking NF- κ B transactivation in endothelial cells. <i>Toxicology and Applied Pharmacology</i> , 2018, 338, 20-29.	1.3	39
30	H ₂ S signaling in redox regulation of cellular functions. <i>Canadian Journal of Physiology and Pharmacology</i> , 2013, 91, 8-14.	0.7	38
31	Golgi Stress Response, Hydrogen Sulfide Metabolism, and Intracellular Calcium Homeostasis. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 583-601.	2.5	31
32	H ₂ S Persulfidated and Increased Kinase Activity of MPK4 to Response Cold Stress in <i>Arabidopsis</i> . <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 635470.	1.6	30
33	Hydrogen sulfide: the shutter button of stomata in plants. <i>Science China Life Sciences</i> , 2016, 59, 1187-1188.	2.3	28
34	Characterization of the O-acetylserine(thiol)lyase gene family in <i>Solanum lycopersicum</i> L.. <i>Plant Molecular Biology</i> , 2019, 99, 123-134.	2.0	24
35	SMALL LEAF AND BUSHY1 controls organ size and lateral branching by modulating the stability of BIG SEEDS1 in <i>Medicago truncatula</i> . <i>New Phytologist</i> , 2020, 226, 1399-1412.	3.5	24
36	Hydrogen sulfide promotes flowering in heading Chinese cabbage by S-sulfhydration of BraFLCs. <i>Horticulture Research</i> , 2021, 8, 19.	2.9	23

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37	Cadmium toxicity is alleviated by AtLCD and AtDCD in <i>Escherichia coli</i> . <i>Journal of Applied Microbiology</i> , 2012, 113, 1130-1138.	1.4	22
38	WRKY transcription factors down-regulate the expression of H ₂ S-generating genes, LCD and DES in <i>Arabidopsis thaliana</i> . <i>Science Bulletin</i> , 2015, 60, 995-1001.	4.3	21
39	Hydrogen Sulfide Signaling in Oxidative Stress and Aging Development. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-2.	1.9	19
40	Hydrogen sulfide mediates DNA methylation to enhance osmotic stress tolerance in <i>Setaria italica</i> L.. <i>Plant and Soil</i> , 2020, 453, 355-370.	1.8	19
41	H ₂ S aids osmotic stress resistance by S-sulfhydration of melatonin production-related enzymes in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2022, 41, 365-376.	2.8	19
42	Functional Specialization of Duplicated AGAMOUS Homologs in Regulating Floral Organ Development of <i>Medicago truncatula</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 854.	1.7	18
43	Efflux inhibition by H ₂ S confers sensitivity to doxorubicin-induced cell death in liver cancer cells. <i>Life Sciences</i> , 2018, 213, 116-125.	2.0	17
44	Induction of cystathionine gamma-lyase expression and metallothionein-1 S-sulfhydration alleviate cadmium-induced cell death in myoblast cells. <i>Ecotoxicology and Environmental Safety</i> , 2019, 179, 222-231.	2.9	16
45	Reversal of Sp1 transactivation and TGF β 1/SMAD1 signaling by H ₂ S prevent nickel-induced fibroblast activation. <i>Toxicology and Applied Pharmacology</i> , 2018, 356, 25-35.	1.3	15
46	H ₂ S Protects against Cardiac Cell Hypertrophy through Regulation of Selenoproteins. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-12.	1.9	13
47	ATP-Binding Cassette G Transporters SGE1 and MtABCG13 Control Stigma Exsertion. <i>Plant Physiology</i> , 2020, 184, 223-235.	2.3	13
48	An <i>Arabidopsis</i> mutant <i>atcsr-2</i> exhibits high cadmium stress sensitivity involved in the restriction of H ₂ S emission. <i>Journal of Zhejiang University: Science B</i> , 2012, 13, 1006-1014.	1.3	10
49	Expressing a modified cowpea trypsin inhibitor gene to increase insect tolerance against <i>Pieris rapae</i> in Chinese cabbage. <i>Horticulture Environment and Biotechnology</i> , 2017, 58, 195-202.	0.7	10
50	Cystathionine gamma-lyase/H ₂ S signaling facilitates myogenesis under aging and injury condition. <i>FASEB Journal</i> , 2021, 35, e21511.	0.2	10
51	Light regulates hydrogen sulfide signalling during skoto- and photo-morphogenesis in foxtail millet. <i>Functional Plant Biology</i> , 2019, 46, 916.	1.1	9
52	Improving sulforaphane content in transgenic broccoli plants by overexpressing MAM1, FMOGS and OX2, and Myrosinase. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 146, 461-471.	1.2	7
53	Diversity of hydrogen sulfide concentration in plant: a little spark to start a prairie fire. <i>Science Bulletin</i> , 2018, 63, 1314-1316.	4.3	5
54	Cloning and functional analysis of four O-Acetylserine (thiol) lyase family genes from foxtail millet. <i>Plant Physiology and Biochemistry</i> , 2019, 139, 325-332.	2.8	5

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55	Hydrogen sulfide inhibits the abscission of tomato pedicel through reconstruction of a basipetal auxin gradient. <i>Plant Science</i> , 2022, 318, 111219.	1.7	4
56	The secret of H ₂ S to keep plants young and fresh and its products. <i>Plant Biology</i> , 2022, 24, 587-593.	1.8	4
57	Identification and functional characterization of a cystathionine β -lyase (CBL) enzyme for H ₂ S production in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2022, 182, 76-89.	2.8	4
58	T1243, an alternative transcript of the mitochondrial T gene in <i>Brassica juncea</i> var. <i>tumida</i> , causes pollen abortion in <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2008, 175, 793-798.	1.7	2
59	Ectopic expression of AtSOC1 gene driven by the inducible promoter rd29A, causes early flowering in <i>Chrysanthemum</i> . <i>Scientia Horticulturae</i> , 2020, 261, 109051.	1.7	2
60	Cytoplasmic male sterility of tuber mustard is associated with the alternative spliced mitochondrial T gene transcripts. <i>Science Bulletin</i> , 2004, 49, 2481-2486.	1.7	1
61	Tin11 intron, an enhancer to affect the function of the cytoplasmic male sterility related gene T in <i>Brassica juncea</i> . <i>Science China Life Sciences</i> , 2013, 56, 1107-1112.	2.3	1
62	Cloning of cucumber LCD and DES gene and their response to abiotic stress. <i>Scientia Horticulturae</i> , 2021, 278, 109802.	1.7	1
63	Cytoplasmic male sterility of tuber mustard is associated with the alternative spliced mitochondrial T gene transcripts. <i>Science Bulletin</i> , 2004, 49, 2481.	1.7	0
64	Multiple splicing types of OsRIX4, an RAD21 homolog in rice (<i>Oryza sativa</i> L.). <i>Science Bulletin</i> , 2007, 52, 1468-1474.	1.7	0
65	A modified protein persulfidation detection method. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	1.0	0