

Sunyo Jung

List of Publications by Year in descending order

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34
papers

1,065
citations

567281

15
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

1262
citing authors

#	ARTICLE	IF	CITATIONS
1	Antioxidative Enzymes Offer Protection from Chilling Damage in Rice Plants. <i>Crop Science</i> , 2003, 43, 2109-2117.	1.8	193
2	Variation in antioxidant metabolism of young and mature leaves of <i>Arabidopsis thaliana</i> subjected to drought. <i>Plant Science</i> , 2004, 166, 459-466.	3.6	136
3	Effects of alfalfa leaf extracts and phenolic allelochemicals on early seedling growth and root morphology of alfalfa and baryard grass. <i>Crop Protection</i> , 2002, 21, 1077-1082.	2.1	115
4	Porphyrin Biosynthesis Control under Water Stress: Sustained Porphyrin Status Correlates with Drought Tolerance in Transgenic Rice. <i>Plant Physiology</i> , 2011, 157, 1746-1764.	4.8	92
5	Antioxidant responses of cucumber (<i>Cucumis sativus</i>) to photoinhibition and oxidative stress induced by norflurazon under high and low PPFs. <i>Plant Science</i> , 2000, 153, 145-154.	3.6	69
6	Toxic tetrapyrrole accumulation in protoporphyrinogen IX oxidase-overexpressing transgenic rice plants. <i>Plant Molecular Biology</i> , 2008, 67, 535-546.	3.9	53
7	Increased expression of Fe-chelatase leads to increased metabolic flux into heme and confers protection against photodynamically induced oxidative stress. <i>Plant Molecular Biology</i> , 2014, 86, 271-287.	3.9	37
8	Influence of photosynthetic photon flux densities before and during long-term chilling on xanthophyll cycle and chlorophyll fluorescence quenching in leaves of tomato (<i>Lycopersicon</i>). <i>Overclock 1034</i> 50 457	3.9	37
9	Cross-resistance pattern and alternative herbicides for <i>Cyperus difformis</i> resistant to sulfonylurea herbicides in Korea. <i>Pest Management Science</i> , 2004, 60, 85-94.	3.4	33
10	Expression of <i>Bradyrhizobium japonicum</i> 5-aminolevulinic acid synthase induces severe photodynamic damage in transgenic rice. <i>Plant Science</i> , 2004, 167, 789-795.	3.6	30
11	Herbicidal and antioxidant responses of transgenic rice overexpressing <i>Myxococcus xanthus</i> protoporphyrinogen oxidase. <i>Plant Physiology and Biochemistry</i> , 2005, 43, 423-430.	5.8	30
12	Characteristics of Chlorophyll a Fluorescence Induction in Cucumber Cotyledons Treated with Diuron, Norflurazon, and Sulcotrionem. <i>Pesticide Biochemistry and Physiology</i> , 1999, 65, 73-81.	3.6	28
13	Altered tetrapyrrole metabolism and transcriptome during growth-promoting actions in rice plants treated with 5-aminolevulinic acid. <i>Plant Growth Regulation</i> , 2016, 78, 133-144.	3.4	25
14	Comparative photoinhibition of a high and a low altitude ecotype of tomato (<i>Lycopersicon hirsutum</i>) to chilling stress under high and low light conditions. <i>Plant Science</i> , 1998, 134, 69-77.	3.6	24
15	Mechanism of paraquat tolerance in cucumber leaves of various ages. <i>Weed Science</i> , 2006, 54, 6-15.	1.5	17
16	A nuclear-encoded chloroplast-targeted S1 rRNA-binding domain protein affects chloroplast rRNA processing and is crucial for the normal growth of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2015, 83, 277-289.	5.7	17
17	Effects of Light-Emitting Diode Irradiation on Growth Characteristics and Regulation of Porphyrin Biosynthesis in Rice Seedlings. <i>International Journal of Molecular Sciences</i> , 2017, 18, 641.	4.1	17
18	Perturbed porphyrin biosynthesis contributes to differential herbicidal symptoms in photodynamically stressed rice (<i>Oryza sativa</i>) treated with 5-aminolevulinic acid and oxyfluorfen. <i>Pesticide Biochemistry and Physiology</i> , 2014, 116, 103-110.	3.6	13

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19	Differential Antioxidant Responses and Perturbed Porphyrin Biosynthesis after Exposure to Oxyfluorfen and Methyl Viologen in <i>Oryza sativa</i> . <i>International Journal of Molecular Sciences</i> , 2015, 16, 16529-16544.	4.1	13
20	Differential antioxidant defense and detoxification mechanisms in photodynamically stressed rice plants treated with the deregulators of porphyrin biosynthesis, 5-aminolevulinic acid and oxyfluorfen. <i>Biochemical and Biophysical Research Communications</i> , 2015, 459, 346-351.	2.1	13
21	Modifying <i>Myxococcus xanthus</i> protoporphyrinogen oxidase to plant codon usage and high level of oxyfluorfen resistance in transgenic rice. <i>Pesticide Biochemistry and Physiology</i> , 2006, 86, 186-194.	3.6	12
22	Perturbations in the Photosynthetic Pigment Status Result in Photooxidation-Induced Crosstalk between Carotenoid and Porphyrin Biosynthetic Pathways. <i>Frontiers in Plant Science</i> , 2017, 8, 1992.	3.6	10
23	Modulation of chloroplast components and defense responses during programmed cell death in tobacco infected with <i>Pseudomonas syringae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 753-759.	2.1	9
24	Either Soluble or Plastidic Expression of Recombinant Protoporphyrinogen Oxidase Modulates Tetrapyrrole Biosynthesis and Photosynthetic Efficiency in Transgenic Rice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1472-1478.	1.3	8
25	Perturbations of carotenoid and tetrapyrrole biosynthetic pathways result in differential alterations in chloroplast function and plastid signaling. <i>Biochemical and Biophysical Research Communications</i> , 2017, 482, 672-677.	2.1	8
26	Expression of recombinant protoporphyrinogen oxidase influences growth and morphological characteristics in transgenic rice. <i>Plant Growth Regulation</i> , 2004, 42, 283-288.	3.4	7
27	Level of protoporphyrinogen oxidase activity tightly correlates with photodynamic and defense responses in oxyfluorfen-treated transgenic rice. <i>Journal of Pesticide Sciences</i> , 2011, 36, 16-21.	1.4	5
28	Differential Antioxidant Mechanisms of Rice Plants in Response to Oxyfluorfen and Paraquat. <i>Weed & Turfgrass Science</i> , 2013, 2, 254-259.	0.1	5
29	Alleviation of norflurazon-induced photobleaching by overexpression of Fe-chelatase in transgenic rice. <i>Journal of Pesticide Sciences</i> , 2021, 46, 258-266.	1.4	3
30	Influence of photosynthetic photon flux densities before and during long-term chilling on xanthophyll cycle and chlorophyll fluorescence quenching in leaves of tomato (<i>Lycopersicon</i>) Tj ETQq0 0 0 rgBT /Overlock 102f 50 297		
31	Perturbations in carotenoid and porphyrin status result in differential photooxidative stress signaling and antioxidant responses. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 840-845.	2.1	2
32	Altered regulation of porphyrin biosynthesis and protective responses to acifluorfen-induced photodynamic stress in transgenic rice expressing <i>Bradyrhizobium japonicum</i> Fe-chelatase. <i>Pesticide Biochemistry and Physiology</i> , 2019, 159, 1-8.	3.6	2
33	Effect of Norflurazon on Responses of Superoxide Dismutase and Catalase in a Standard Maize Inbred Line and Superoxide Dismutase Mutant. <i>Journal of Pesticide Sciences</i> , 2003, 28, 281-286.	1.4	2
34	The Expression Level of a Specific Catalase Isozyme of Maize Mutants Alters Catalase and Superoxide Dismutase during Norflurazon-Induced Oxidative Stress in <i>Scutella</i> . <i>Journal of Pesticide Sciences</i> , 2003, 28, 287-292.	1.4	1