

Yajing Guan

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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citations

361413

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#	ARTICLE	IF	CITATIONS
1	Exogenous spermidine improves seed germination of sweet corn via involvement in phytohormone interactions, H ₂ O ₂ and relevant gene expression. <i>BMC Plant Biology</i> , 2017, 17, 1.	3.6	314
2	Seed polyamines metabolism induced by seed priming with spermidine and 5-aminolevulinic acid for chilling tolerance improvement in rice (<i>Oryza sativa</i> L.) seedlings. <i>Environmental and Experimental Botany</i> , 2017, 137, 58-72.	4.2	107
3	The Synergistic Priming Effect of Exogenous Salicylic Acid and H ₂ O ₂ on Chilling Tolerance Enhancement during Maize (<i>Zea mays</i> L.) Seed Germination. <i>Frontiers in Plant Science</i> , 2017, 8, 1153.	3.6	96
4	Cold plasma treatment and exogenous salicylic acid priming enhances salinity tolerance of <i>Oryza sativa</i> seedlings. <i>Protoplasma</i> , 2019, 256, 79-99.	2.1	90
5	Determination of hemicellulose, cellulose and lignin content using visible and near infrared spectroscopy in <i>Miscanthus sinensis</i> . <i>Bioresource Technology</i> , 2017, 241, 603-609.	9.6	78
6	Priming with methyl jasmonate alleviates polyethylene glycol-induced osmotic stress in rice seeds by regulating the seed metabolic profile. <i>Environmental and Experimental Botany</i> , 2018, 153, 236-248.	4.2	57
7	Seed priming with polyethylene glycol induces antioxidative defense and metabolic regulation of rice under nano-ZnO stress. <i>Environmental Science and Pollution Research</i> , 2016, 23, 19989-20002.	5.3	53
8	Regulation of ZnO nanoparticles-induced physiological and molecular changes by seed priming with humic acid in <i>Oryza sativa</i> seedlings. <i>Plant Growth Regulation</i> , 2017, 83, 27-41.	3.4	51
9	Spermidine Enhances Heat Tolerance of Rice Seeds by Modulating Endogenous Starch and Polyamine Metabolism. <i>Molecules</i> , 2019, 24, 1395.	3.8	47
10	Seed Priming with Brassinosteroids Alleviates Chromium Stress in Rice Cultivars via Improving ROS Metabolism and Antioxidant Defense Response at Biochemical and Molecular Levels. <i>Antioxidants</i> , 2021, 10, 1089.	5.1	42
11	Reactive Oxygen Species and Gibberellin Acid Mutual Induction to Regulate Tobacco Seed Germination. <i>Frontiers in Plant Science</i> , 2018, 9, 1279.	3.6	40
12	Low Temperature Enhances Plant Immunity via Salicylic Acid Pathway Genes That Are Repressed by Ethylene. <i>Plant Physiology</i> , 2020, 182, 626-639.	4.8	40
13	Maize annexin genes <i>ZmANN33</i> and <i>ZmANN35</i> encode proteins that function in cell membrane recovery during seed germination. <i>Journal of Experimental Botany</i> , 2019, 70, 1183-1195.	4.8	37
14	Polyamine biosynthetic pathways and their relation with the cold tolerance of maize (<i>Zea mays</i>)	2.4	33
15	Inhibitory effect of chemical combinations on seed germination and pre-harvest sprouting in hybrid rice. <i>Plant Growth Regulation</i> , 2016, 80, 281-289.	3.4	31
16	Seed Priming with Spermidine and Trehalose Enhances Chilling Tolerance of Rice via Different Mechanisms. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 669-679.	5.1	30
17	Inhibitory effect of eugenol on seed germination and pre-harvest sprouting of hybrid rice (<i>Oryza</i>)	3.3	29
18	Transcriptome Analysis of Chilling-Imbibed Embryo Revealed Membrane Recovery Related Genes in Maize. <i>Frontiers in Plant Science</i> , 2016, 7, 1978.	3.6	28

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19	Chromium toxicity induced oxidative damage in two rice cultivars and its mitigation through external supplementation of brassinosteroids and spermine. <i>Chemosphere</i> , 2022, 302, 134423.	8.2	27
20	Brassinosteroids as a multidimensional regulator of plant physiological and molecular responses under various environmental stresses. <i>Environmental Science and Pollution Research</i> , 2021, 28, 44768-44779.	5.3	25
21	On-Off-Thermoresponsive Coating Agent Containing Salicylic Acid Applied to Maize Seeds for Chilling Tolerance. <i>PLoS ONE</i> , 2015, 10, e0120695.	2.5	24
22	Salicylic acid biosynthesis inhibitors increase chilling injury to maize (<i>Zea mays</i> L.) seedlings. <i>Plant Growth Regulation</i> , 2018, 86, 11-21.	3.4	20
23	Genome Survey Sequencing of <i>Luffa cylindrica</i> L. and Microsatellite High Resolution Melting (SSR-HRM) Analysis for Genetic Relationship of <i>Luffa</i> Genotypes. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1942.	4.1	17
24	Suppression of LOX activity enhanced seed vigour and longevity of tobacco (<i>Nicotiana tabacum</i> L.) seeds during storage. , 2018, 6, coy047.		17
25	Facile synthesis of nanomaterials as nanofertilizers: a novel way for sustainable crop production. <i>Environmental Science and Pollution Research</i> , 2022, 29, 51281-51297.	5.3	17
26	The Novel Approach to Enhance Seed Security: Dual Anti-Counterfeiting Methods Applied on Tobacco Pelleted Seeds. <i>PLoS ONE</i> , 2013, 8, e57274.	2.5	14
27	RELATIONSHIP BETWEEN ENDOGENOUS SALICYLIC ACID AND ANTIOXIDANT ENZYME ACTIVITIES IN MAIZE SEEDLINGS UNDER CHILLING STRESS. <i>Experimental Agriculture</i> , 2013, 49, 295-308.	0.9	14
28	Seed priming with brassinosteroids alleviates aluminum toxicity in rice via improving antioxidant defense system and suppressing aluminum uptake. <i>Environmental Science and Pollution Research</i> , 2022, 29, 10183-10197.	5.3	13
29	An Enhanced Drought-Tolerant Method Using SA-Loaded PAMPS Polymer Materials Applied on Tobacco Pelleted Seeds. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	12
30	A new anti-counterfeiting method: fluorescent labeling by safranin T in tobacco seed. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 1271-1276.	2.1	11
31	The interactions of plant growth regulators and H ₂ O ₂ during germination improvement of sweet corn seed through spermidine application. <i>Plant Growth Regulation</i> , 2018, 85, 15-26.	3.4	10
32	Spermidine Induces Expression of Stress Associated Proteins (SAPs) Genes and Protects Rice Seed from Heat Stress-Induced Damage during Grain-Filling. <i>Antioxidants</i> , 2021, 10, 1544.	5.1	10
33	A Strategy for Finding the Optimal Scale of Plant Core Collection Based on Monte Carlo Simulation. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	8
34	Spermidine Suppressed the Inhibitory Effects of Polyamines Inhibitors Combination in Maize (<i>Zea mays</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.5	8
35	Intelligent seed pellets may improve chilling tolerance in tobacco. <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , 2012, 6, 87-95.	1.1	3
36	Evaluation of seed quality based on changes of internal substances during tobacco seed (<i>Nicotiana</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.4	1

#	ARTICLE	IF	CITATIONS
37	Effects of Fe-Zn-NA chelates priming on the vigour of aged hybrid rice seeds and the maintenance of priming benefits at different storage temperatures. <i>Seed Science and Technology</i> , 2021, , .	1.4	1