

Kai Shu

List of Publications by Year in descending order

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55
papers

3,999
citations

147801

31
h-index

155660

55
g-index

56
all docs

56
docs citations

56
times ranked

3887
citing authors

#	ARTICLE	IF	CITATIONS
1	Two Faces of One Seed: Hormonal Regulation of Dormancy and Germination. <i>Molecular Plant</i> , 2016, 9, 34-45.	8.3	709
2	ABI4 Regulates Primary Seed Dormancy by Regulating the Biogenesis of Abscisic Acid and Gibberellins in Arabidopsis. <i>PLoS Genetics</i> , 2013, 9, e1003577.	3.5	330
3	E3 Ubiquitin Ligases: Ubiquitous Actors in Plant Development and Abiotic Stress Responses. <i>Plant and Cell Physiology</i> , 2017, 58, 1461-1476.	3.1	194
4	Effect of aboveground and belowground interactions on the intercrop yields in maize-soybean relay intercropping systems. <i>Field Crops Research</i> , 2017, 203, 16-23.	5.1	168
5	<sc>ABI</sc>4 mediates antagonistic effects of abscisic acid and gibberellins at transcript and protein levels. <i>Plant Journal</i> , 2016, 85, 348-361.	5.7	164
6	Abscisic Acid and Gibberellins Antagonistically Mediate Plant Development and Abiotic Stress Responses. <i>Frontiers in Plant Science</i> , 2018, 9, 416.	3.6	149
7	Plant waterlogging/flooding stress responses: From seed germination to maturation. <i>Plant Physiology and Biochemistry</i> , 2020, 148, 228-236.	5.8	142
8	The RING Finger Ubiquitin E3 Ligase SDIR1 Targets SDIR1-INTERACTING PROTEIN1 for Degradation to Modulate the Salt Stress Response and ABA Signaling in Arabidopsis. <i>Plant Cell</i> , 2015, 27, 214-227.	6.6	136
9	Maize-soybean strip intercropping: Achieved a balance between high productivity and sustainability. <i>Journal of Integrative Agriculture</i> , 2018, 17, 747-754.	3.5	126
10	Salt Stress Represses Soybean Seed Germination by Negatively Regulating GA Biosynthesis While Positively Mediating ABA Biosynthesis. <i>Frontiers in Plant Science</i> , 2017, 8, 1372.	3.6	115
11	ABSCISIC ACID-INSENSITIVE 4 negatively regulates flowering through directly promoting Arabidopsis FLOWERING LOCUS C transcription. <i>Journal of Experimental Botany</i> , 2016, 67, 195-205.	4.8	112
12	The ABI4bohD/VTC2 regulatory module promotes reactive oxygen species (ROS) accumulation to decrease seed germination under salinity stress. <i>New Phytologist</i> , 2021, 229, 950-962.	7.3	108
13	Effect of interactions between light intensity and red-to- far-red ratio on the photosynthesis of soybean leaves under shade condition. <i>Environmental and Experimental Botany</i> , 2018, 150, 79-87.	4.2	107
14	Exogenous auxin represses soybean seed germination through decreasing the gibberellin/abscisic acid (GA/ABA) ratio. <i>Scientific Reports</i> , 2017, 7, 12620.	3.3	100
15	Effect of shading and light recovery on the growth, leaf structure, and photosynthetic performance of soybean in a maize-soybean relay-strip intercropping system. <i>PLoS ONE</i> , 2018, 13, e0198159.	2.5	99
16	Dormancy and germination: How does the crop seed decide?. <i>Plant Biology</i> , 2015, 17, 1104-1112.	3.8	98
17	<sc>APETALA</sc> 2 domain-containing transcription factors: focusing on abscisic acid and gibberellins antagonism. <i>New Phytologist</i> , 2018, 217, 977-983.	7.3	90
18	Comparative analysis of maize-soybean strip intercropping systems: a review. <i>Plant Production Science</i> , 2019, 22, 131-142.	2.0	77

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19	Effects of reduced nitrogen inputs on crop yield and nitrogen use efficiency in a long-term maize-soybean relay strip intercropping system. <i>PLoS ONE</i> , 2017, 12, e0184503.	2.5	76
20	A matter of life and death: Molecular, physiological, and environmental regulation of seed longevity. <i>Plant, Cell and Environment</i> , 2020, 43, 293-302.	5.7	65
21	DA-6 promotes germination and seedling establishment from aged soybean seeds by mediating fatty acid metabolism and glycometabolism. <i>Journal of Experimental Botany</i> , 2019, 70, 101-114.	4.8	64
22	Shade adaptive response and yield analysis of different soybean genotypes in relay intercropping systems. <i>Journal of Integrative Agriculture</i> , 2017, 16, 1331-1340.	3.5	59
23	Auxin-to-Gibberellin Ratio as a Signal for Light Intensity and Quality in Regulating Soybean Growth and Matter Partitioning. <i>Frontiers in Plant Science</i> , 2018, 9, 56.	3.6	58
24	Leaf area and photosynthesis of newly emerged trifoliolate leaves are regulated by mature leaves in soybean. <i>Journal of Plant Research</i> , 2018, 131, 671-680.	2.4	55
25	Multifaceted Signaling Networks Mediated by Abscisic Acid Insensitive 4. <i>Plant Communications</i> , 2020, 1, 100040.	7.7	52
26	Toward a Molecular Understanding of Abscisic Acid Actions in Floral Transition. <i>Plant and Cell Physiology</i> , 2018, 59, 215-221.	3.1	47
27	Karrikins delay soybean seed germination by mediating abscisic acid and gibberellin biogenesis under shaded conditions. <i>Scientific Reports</i> , 2016, 6, 22073.	3.3	46
28	Low red/far-red ratio as a signal promotes carbon assimilation of soybean seedlings by increasing the photosynthetic capacity. <i>BMC Plant Biology</i> , 2020, 20, 148.	3.6	46
29	Karrikins: Regulators Involved in Phytohormone Signaling Networks during Seed Germination and Seedling Development. <i>Frontiers in Plant Science</i> , 2016, 7, 2021.	3.6	45
30	Are There Unidentified Factors Involved in the Germination of Nanoprimered Seeds?. <i>Frontiers in Plant Science</i> , 2020, 11, 832.	3.6	36
31	Effect of narrow-row planting patterns on crop competitive and economic advantage in maize-soybean relay strip intercropping system. <i>Plant Production Science</i> , 2017, 20, 1-11.	2.0	34
32	Genome-wide identification of GRF transcription factors in soybean and expression analysis of GmGRF family under shade stress. <i>BMC Plant Biology</i> , 2019, 19, 269.	3.6	32
33	Shading of the mother plant during seed development promotes subsequent seed germination in soybean. <i>Journal of Experimental Botany</i> , 2020, 71, 2072-2084.	4.8	30
34	Auxin and Gibberellins Are Required for the Receptor-Like Kinase ERECTA Regulated Hypocotyl Elongation in Shade Avoidance in Arabidopsis. <i>Frontiers in Plant Science</i> , 2018, 9, 124.	3.6	21
35	Aluminum stress signaling, response, and adaptive mechanisms in plants. <i>Plant Signaling and Behavior</i> , 2022, 17, 2057060.	2.4	21
36	ABI4 regulates the floral transition independently of ABI5 and ABI3. <i>Molecular Biology Reports</i> , 2018, 45, 2727-2731.	2.3	19

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37	Metabolism variation and better storability of dark- versus light-coloured soybean (<i>Glycine max</i> L.) Tj ETQq1 1 0.784314 rgBT/Overloc	8.2	18
38	Functional characterization of ZmTPS7 reveals a maize β -cadinol synthase involved in stress response. <i>Planta</i> , 2016, 244, 1065-1074.	3.2	17
39	Flooding represses soybean seed germination by mediating anaerobic respiration, glycometabolism and phytohormones biosynthesis. <i>Environmental and Experimental Botany</i> , 2021, 188, 104491.	4.2	16
40	The roles of auxin in seed dormancy and germination. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , 2016, 38, 314-22.	0.2	16
41	Toward a Molecular Understanding of Rhizosphere, Phyllosphere, and Spermosphere Interactions in Plant Growth and Stress Response. <i>Critical Reviews in Plant Sciences</i> , 2021, 40, 479-500.	5.7	15
42	Metabolomic tool to identify soybean [<i>Glycine max</i> (L.) Merrill] germplasm with a high level of shade tolerance at the seedling stage. <i>Scientific Reports</i> , 2017, 7, 42478.	3.3	13
43	Pod Mildew on Soybeans Can Mitigate the Damage to the Seed Arising from Field Mold at Harvest Time. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 9135-9142.	5.2	12
44	Endosperm weakening: The gateway to a seed's new life. <i>Plant Physiology and Biochemistry</i> , 2022, 178, 31-39.	5.8	10
45	Seed Dormancy and Longevity: A Mutual Dependence or a Trade-Off?. <i>Plant and Cell Physiology</i> , 2022, 63, 1029-1037.	3.1	8
46	Concurrent Deficiency of Gibberellins and Abscisic Acid Causes Plant Male Sterility. <i>Journal of Genetics and Genomics</i> , 2014, 41, 601-604.	3.9	7
47	Quantitative proteomic analyses identified multiple sugar metabolic proteins in soybean under shade stress. <i>Journal of Biochemistry</i> , 2019, 165, 277-288.	1.7	7
48	ABA Biosynthesis and Signaling Cascades Under Hypoxia Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 661228.	3.6	7
49	ABSCISIC ACID INSENSITIVE 5 mediates light-ABA/gibberellin crosstalk networks during seed germination. <i>Journal of Experimental Botany</i> , 2022, 73, 4674-4682.	4.8	6
50	Characterization of a splice variant of soybean ERECTA devoid of an intracellular kinase domain in response to shade stress. <i>Journal of Genetics</i> , 2018, 97, 1353-1361.	0.7	5
51	Evaluation of leaf physiological and biochemical traits during senescence of the wheat core collection in the southwest of China. <i>Canadian Journal of Plant Science</i> , 2008, 88, 331-337.	0.9	3
52	Application of targeted ^1H NMR profiling to assess the seed vitality of soybean [<i>Glycine max</i> (L.) Merr.]. <i>Analytical Methods</i> , 2017, 9, 1792-1799.	2.7	3
53	Identification and Bioinformatic Analysis of the GmDOG1-Like Family in Soybean and Investigation of Their Expression in Response to Gibberellic Acid and Abscisic Acid. <i>Plants</i> , 2020, 9, 937.	3.5	3
54	Parental Shading Regulates Subsequent Seed Germination. <i>Frontiers in Plant Science</i> , 2021, 12, 748760.	3.6	2

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55	Repressors: the gatekeepers of phytohormone signaling cascades. <i>Plant Cell Reports</i> , 2022, 41, 1333-1341.	5.6	1