

Xiangru Tang

List of Publications by Year in descending order

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papers

3,076
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147801

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docs citations

99
times ranked

1635
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead toxicity in rice: effects, mechanisms, and mitigation strategies—a mini review. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18318-18332.	5.3	186
2	Lead (Pb) Toxicity; Physio-Biochemical Mechanisms, Grain Yield, Quality, and Pb Distribution Proportions in Scented Rice. <i>Frontiers in Plant Science</i> , 2017, 8, 259.	3.6	136
3	Shading during the grain filling period increases 2-acetyl-1-pyrroline content in fragrant rice. <i>Rice</i> , 2015, 8, 9.	4.0	132
4	Yield and quality responses, plant metabolism and metal distribution pattern in aromatic rice under lead (Pb) toxicity. <i>Chemosphere</i> , 2017, 176, 141-155.	8.2	120
5	Benefits of mechanized deep placement of nitrogen fertilizer in direct-seeded rice in South China. <i>Field Crops Research</i> , 2017, 203, 139-149.	5.1	104
6	Roles of plant growth regulators on yield, grain qualities and antioxidant enzyme activities in super hybrid rice (<i>Oryza sativa</i> L.). <i>Rice</i> , 2013, 6, 9.	4.0	87
7	Manganese-induced regulations in growth, yield formation, quality characters, rice aroma and enzyme involved in 2-acetyl-1-pyrroline biosynthesis in fragrant rice. <i>Plant Physiology and Biochemistry</i> , 2016, 103, 167-175.	5.8	87
8	Effects of Nitrogen and Shading on Root Morphologies, Nutrient Accumulation, and Photosynthetic Parameters in Different Rice Genotypes. <i>Scientific Reports</i> , 2016, 6, 32148.	3.3	75
9	Silicon fertilization modulates 2-acetyl-1-pyrroline content, yield formation and grain quality of aromatic rice. <i>Journal of Cereal Science</i> , 2017, 75, 17-24.	3.7	74
10	Water management regimes alter Pb uptake and translocation in fragrant rice. <i>Ecotoxicology and Environmental Safety</i> , 2018, 149, 128-134.	6.0	74
11	Molybdenum Supply Alleviates the Cadmium Toxicity in Fragrant Rice by Modulating Oxidative Stress and Antioxidant Gene Expression. <i>Biomolecules</i> , 2020, 10, 1582.	4.0	74
12	Alterations in growth, oxidative damage, and metal uptake of five aromatic rice cultivars under lead toxicity. <i>Plant Physiology and Biochemistry</i> , 2017, 115, 461-471.	5.8	70
13	Molecular basis for increased 2-acetyl-1-pyrroline contents under alternate wetting and drying (AWD) conditions in fragrant rice. <i>Plant Physiology and Biochemistry</i> , 2018, 133, 149-157.	5.8	69
14	ZnO nanoparticle-based seed priming modulates early growth and enhances physio-biochemical and metabolic profiles of fragrant rice against cadmium toxicity. <i>Journal of Nanobiotechnology</i> , 2021, 19, 75.	9.1	68
15	Short-term water management at early filling stage improves early-season rice performance under high temperature stress in South China. <i>European Journal of Agronomy</i> , 2017, 90, 117-126.	4.1	62
16	Lead (Pb) distribution and accumulation in different plant parts and its associations with grain Pb contents in fragrant rice. <i>Chemosphere</i> , 2020, 248, 126003.	8.2	61
17	Calcium amendment improved the performance of fragrant rice and reduced metal uptake under cadmium toxicity. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24748-24757.	5.3	55
18	Deep placement of nitrogen fertilizer increases rice yield and nitrogen use efficiency with fewer greenhouse gas emissions in a mechanical direct-seeded cropping system. <i>Crop Journal</i> , 2021, 9, 1386-1396.	5.2	55

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19	Selenium-silicon (Se-Si) induced modulations in physio-biochemical responses, grain yield, quality, aroma formation and lodging in fragrant rice. <i>Ecotoxicology and Environmental Safety</i> , 2020, 196, 110525.	6.0	54
20	Molybdenum improves 2-acetyl-1-pyrroline, grain quality traits and yield attributes in fragrant rice through efficient nitrogen assimilation under cadmium toxicity. <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111911.	6.0	53
21	Rice seed priming with sodium selenate: Effects on germination, seedling growth, and biochemical attributes. <i>Scientific Reports</i> , 2019, 9, 4311.	3.3	49
22	The genetics and biosynthesis of 2-acetyl-1-pyrroline in fragrant rice. <i>Plant Physiology and Biochemistry</i> , 2019, 135, 272-276.	5.8	49
23	Biofortification with chelating selenium in fragrant rice: Effects on photosynthetic rates, aroma, grain quality and yield formation. <i>Field Crops Research</i> , 2020, 255, 107909.	5.1	49
24	Supplementation of 2-Ap, Zn and La Improves 2-Acetyl-1-Pyrroline Concentrations in Detached Aromatic Rice Panicles In Vitro. <i>PLoS ONE</i> , 2016, 11, e0149523.	2.5	48
25	Responses of plant growth, physiological, gas exchange parameters of super and non-super rice to rhizosphere temperature at the tillering stage. <i>Scientific Reports</i> , 2019, 9, 10618.	3.3	46
26	Nitrogen application at the booting stage affects 2-acetyl-1-pyrroline, proline, and total nitrogen contents in aromatic rice. <i>Chilean Journal of Agricultural Research</i> , 2018, 78, 165-172.	1.1	42
27	Nitrogen application and different water regimes at booting stage improved yield and 2-acetyl-1-pyrroline (2AP) formation in fragrant rice. <i>Rice</i> , 2019, 12, 74.	4.0	41
28	Application of inorganic passivators reduced Cd contents in brown rice in oilseed rape-rice rotation under Cd contaminated soil. <i>Chemosphere</i> , 2020, 259, 127404.	8.2	40
29	Deep Placement of Nitrogen Fertilizer Affects Grain Yield, Nitrogen Recovery Efficiency, and Root Characteristics in Direct-Seeded Rice in South China. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 379-387.	5.1	39
30	Some factors affecting the concentration of the aroma compound 2-acetyl-1-pyrroline in two fragrant rice cultivars grown in South China. <i>Frontiers of Agriculture in China</i> , 2010, 4, 1-9.	0.2	37
31	Ultrasonic seed treatment improved cadmium (Cd) tolerance in <i>Brassica napus</i> L. <i>Ecotoxicology and Environmental Safety</i> , 2019, 185, 109659.	6.0	35
32	Cadmium Uptake and Distribution in Fragrant Rice Genotypes and Related Consequences on Yield and Grain Quality Traits. <i>Journal of Chemistry</i> , 2017, 2017, 1-9.	1.9	34
33	Regulations in 2-acetyl-1-pyrroline contents in fragrant rice are associated with water-nitrogen dynamics and plant nutrient contents. <i>Journal of Cereal Science</i> , 2019, 88, 96-102.	3.7	31
34	Nitrogen Effects on Yield, Quality and Physiological Characteristics of Giant Rice. <i>Agronomy</i> , 2020, 10, 1816.	3.0	31
35	Enhancement of 2-acetyl-1-pyrroline (2AP) concentration, total yield, and quality in fragrant rice through exogenous l ³ -aminobutyric acid (GABA) application. <i>Journal of Cereal Science</i> , 2020, 91, 102900.	3.7	29
36	Ultrasonic seed treatment improved physiological and yield traits of rice under lead toxicity. <i>Environmental Science and Pollution Research</i> , 2018, 25, 33637-33644.	5.3	28

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37	Exogenous application of zinc (Zn) at the heading stage regulates 2-acetyl-1-pyrroline (2-AP) biosynthesis in different fragrant rice genotypes. <i>Scientific Reports</i> , 2019, 9, 19513.	3.3	28
38	Decrease in rice aroma after application of growth regulators. <i>Agronomy for Sustainable Development</i> , 2011, 31, 349-359.	5.3	27
39	Application of Î³-aminobutyric acid (GABA) and nitrogen regulates aroma biochemistry in fragrant rice. <i>Food Science and Nutrition</i> , 2019, 7, 3784-3796.	3.4	25
40	Foliar application of sodium selenate induces regulation in yield formation, grain quality characters and 2-acetyl-1-pyrroline biosynthesis in fragrant rice. <i>BMC Plant Biology</i> , 2019, 19, 502.	3.6	24
41	Low temperature increased the biosynthesis of 2-AP, cooked rice elongation percentage and amylose content percentage in rice. <i>Journal of Cereal Science</i> , 2020, 93, 102980.	3.7	23
42	Molybdenum supply increases root system growth of winter wheat by enhancing nitric oxide accumulation and expression of NRT genes. <i>Plant and Soil</i> , 2021, 459, 235-248.	3.7	23
43	MILD DROUGHT IN INTERACTION WITH ADDITIONAL NITROGEN DOSE AT GRAIN FILLING STAGE MODULATES 2ACETYL-1-PYRROLINE BIOSYNTHESIS AND GRAIN YIELD IN FRAGRANT RICE. <i>Applied Ecology and Environmental Research</i> , 2018, 16, 7741-7758.	0.5	23
44	Physiological Basis of Improved Performance of Super Rice (<i>Oryza sativa</i>) to Deep Placed Fertilizer with Precision Hill-drilling Machine. <i>International Journal of Agriculture and Biology</i> , 2016, 18, 797-804.	0.4	22
45	Straw Incorporation Coupled with Deep Placement of Nitrogen Fertilizer Improved Grain Yield and Nitrogen Use Efficiency in Direct-Seeded Rice. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 2338-2347.	3.4	21
46	Ultrasonic seed treatment improved morpho-physiological and yield traits and reduced grain Cd concentrations in rice. <i>Ecotoxicology and Environmental Safety</i> , 2021, 214, 112119.	6.0	20
47	Nitrogen Deep Placement Combined with Straw Mulch Cultivation Enhances Physiological Traits, Grain Yield and Nitrogen Use Efficiency in Mechanical Pot-Seedling Transplanting Rice. <i>Rice Science</i> , 2022, 29, 89-100.	3.9	20
48	Optimization of nitrogen-silicon (N-Si) fertilization for grain yield and lodging resistance of early-season indica fragrant rice under different planting methods. <i>European Journal of Agronomy</i> , 2022, 136, 126508.	4.1	20
49	Transcriptomic Analysis Provides Insights into Foliar Zinc Application Induced Upregulation in 2-Acetyl-1-pyrroline and Related Transcriptional Regulatory Mechanism in Fragrant Rice. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11350-11360.	5.2	18
50	Roles of Nitrogen Deep Placement on Grain Yield, Nitrogen Use Efficiency, and Antioxidant Enzyme Activities in Mechanical Pot-Seedling Transplanting Rice. <i>Agronomy</i> , 2020, 10, 1252.	3.0	16
51	DEEP FERTILIZER PLACEMENT IMPROVES RICE GROWTH AND YIELD IN ZERO TILLAGE. <i>Applied Ecology and Environmental Research</i> , 2018, 16, 8045-8054.	0.5	16
52	Effect of Exogenous Melatonin Application on the Grain Yield and Antioxidant Capacity in Aromatic Rice under Combined Lead-Cadmium Stress. <i>Antioxidants</i> , 2022, 11, 776.	5.1	16
53	Exogenous proline induces regulation in 2-acetyl-1-pyrroline (2-AP) biosynthesis and quality characters in fragrant rice (<i>Oryza sativa</i> L.). <i>Scientific Reports</i> , 2020, 10, 13971.	3.3	15
54	Nitrogen Regulates the Grain Yield, Antioxidant Attributes, and Nitrogen Metabolism in Fragrant Rice Grown Under Lead-Contaminated Soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 2099-2111.	3.4	15

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55	Application of $\hat{1}^3$ -aminobutyric acid under low light conditions: Effects on yield, aroma, element status, and physiological attributes of fragrant rice. <i>Ecotoxicology and Environmental Safety</i> , 2021, 213, 111941.	6.0	14
56	Molybdenum-Induced Regulation of Antioxidant Defense-Mitigated Cadmium Stress in Aromatic Rice and Improved Crop Growth, Yield, and Quality Traits. <i>Antioxidants</i> , 2021, 10, 838.	5.1	14
57	Effects of nitrogen deep placement coupled with straw incorporation on grain quality and root traits from paddy fields. <i>Crop Science</i> , 2021, 61, 3675-3686.	1.8	14
58	EFFECT OF FOLIAR SODIUM SELENATE ON LEAF SENESCENCE OF FRAGRANT RICE IN SOUTH CHINA. <i>Applied Ecology and Environmental Research</i> , 2019, 17, 3343-3351.	0.5	14
59	Selenium Decreases the Cadmium Content in Brown Rice: Foliar Se Application to Plants Grown in Cd-contaminated Soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2022, 22, 1033-1043.	3.4	14
60	Selenium improved antioxidant response and photosynthesis in fragrant rice (<i>Oryza sativa</i> L.) seedlings during drought stress. <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 2849-2858.	3.1	14
61	Light and water treatment during the early grain filling stage regulates yield and aroma formation in aromatic rice. <i>Scientific Reports</i> , 2020, 10, 14830.	3.3	13
62	Additional Nitrogen Application Under Different Water Regimes at Tillering Stage Enhanced Rice Yield and 2-Acetyl-1-Pyrroline (2AP) Content in Fragrant Rice. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 954-964.	5.1	13
63	$\hat{1}^3$ -Aminobutyric Acid Regulates Grain Yield Formation in Different Fragrant Rice Genotypes Under Different Nitrogen Levels. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 738-750.	5.1	12
64	Exogenous $\hat{1}^3$ -aminobutyric acid (GABA) application at different growth stages regulates 2-acetyl-1-pyrroline, yield, quality and antioxidant attributes in fragrant rice. <i>Journal of Plant Interactions</i> , 2020, 15, 139-152.	2.1	12
65	Harvest Time Effects on Yield, Quality and Aroma of Fragrant Rice. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2249-2257.	5.1	12
66	Productivity and profitability of mechanized deep nitrogen fertilization in mechanical potâ€¢seedling transplanting rice in South China. <i>Agronomy Journal</i> , 2021, 113, 1664-1680.	1.8	12
67	EFFECTS OF DIFFERENT TEMPERATURE CONDITIONS ON YIELD AND PHYSIOLOGICAL PROPERTIES OF RICE (<i>ORYZA SATIVA</i> L.). <i>Applied Ecology and Environmental Research</i> , 2019, 17, 199-211.	0.5	12
68	Deep placement of nitrogen fertilizer increases rice yield and energy production efficiency under different mechanical rice production systems. <i>Field Crops Research</i> , 2022, 276, 108359.	5.1	12
69	Lanthanum (La) improves growth, yield formation and 2-acetyl-1-pyrroline biosynthesis in aromatic rice (<i>Oryza sativa</i> L.). <i>BMC Plant Biology</i> , 2021, 21, 233.	3.6	11
70	The Regulatory Mechanism of 2-Acetyl-1-Pyrroline Biosynthesis in Fragrant Rice (<i>Oryza sativa</i> L.) Under Different Soil Moisture Contents. <i>Frontiers in Plant Science</i> , 2021, 12, 772728.	3.6	10
71	Application of ornithine-induced regulation in yield formation, grain quality and aroma of fragrant rice. <i>Cereal Research Communications</i> , 2020, 48, 485-492.	1.6	9
72	Differential response of fragrant rice cultivars to salinity and hydrogen rich water in relation to growth and antioxidative defense mechanisms. <i>International Journal of Phytoremediation</i> , 2021, 23, 1203-1211.	3.1	9

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73	Preliminary Application of Vermicompost in Rice Production: Effects of Nursery Raising with Vermicompost on Fragrant Rice Performances. <i>Agronomy</i> , 2021, 11, 1253.	3.0	9
74	Effects of Light Quality Treatments during the Grain Filling Period on Yield, Quality, and Fragrance in Fragrant Rice. <i>Agronomy</i> , 2021, 11, 531.	3.0	8
75	Fragrant rice performances in response to continuous zero-tillage in machine-transplanted double-cropped rice system. <i>Scientific Reports</i> , 2020, 10, 8326.	3.3	8
76	THE EFFECT OF EDTA-SE WITH DIFFERENT CONCENTRATIONS ON PHOTOSYNTHESIS OF FRAGRANT RICE (ORYZA SATIVA L.). <i>Applied Ecology and Environmental Research</i> , 2019, 17, 3293-3303.	0.5	8
77	A New Organic-Inorganic Compound Fertilizer for Improving Growth, Yield, and 2-Acetyl-1-Pyrroline Biosynthesis of Fragrant Rice. <i>Agriculture (Switzerland)</i> , 2021, 11, 1121.	3.1	8
78	Fertilizer Deep Placement Significantly Affected Yield, Rice Quality, 2-AP Biosynthesis and Physiological Characteristics of the Fragrant Rice Cultivars. <i>Agronomy</i> , 2022, 12, 162.	3.0	8
79	Water and Nitrogen Management at the Booting Stage Affects Yield, Grain Quality, Nutrient Uptake, and Use Efficiency of Fragrant Rice Under the Agro-Climatic Conditions of South China. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	8
80	Light quality during booting stage modulates fragrance, grain yield and quality in fragrant rice. <i>Journal of Plant Interactions</i> , 2021, 16, 42-52.	2.1	7
81	Effects of Different Fertilization Methods on Grain Yield, Photosynthetic Characteristics and Nitrogen Synthetase Enzymatic Activities of Direct-seeded Rice in South China. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1642-1653.	5.1	7
82	LOW-CONCENTRATION SODIUM SELENITE APPLICATIONS IMPROVE OXIDATION RESISTANCE OF FILLING-STAGE RICE. <i>Applied Ecology and Environmental Research</i> , 2019, 17, 989-998.	0.5	7
83	Grain Yield, Quality and 2-Acetyl-1-Pyrroline of Fragrant Rice in Response to Different Planting Seasons in South China. <i>Phyton</i> , 2020, 89, 705-714.	0.7	7
84	Enhancement of Yield, Grain Quality Characters, 2-Acetyl-1-Pyrroline Content, and Photosynthesis of Fragrant Rice Cultivars by Foliar Application of Paclobutrazol. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 748-758.	5.1	7
85	Exogenous Methyl Jasmonate Application Improved Physio-Biochemical Attributes, Yield, Quality, and Cadmium Tolerance in Fragrant Rice. <i>Frontiers in Plant Science</i> , 2022, 13, 849477.	3.6	7
86	Transcriptional cascades in the regulation of 2-AP biosynthesis under Zn supply in fragrant rice. <i>Physiologia Plantarum</i> , 2022, 174, .	5.2	7
87	Application of saline to seeds enhances the biosynthesis of 2-acetyl-1-pyrroline in aromatic rice seedlings (<i>Oryza sativa</i> L.). <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	2.1	6
88	Increased seedlings per hill compensates yield loss due to zero tillage in machine-transplanted fragrant rice. <i>Crop Science</i> , 2020, 60, 2683-2694.	1.8	6
89	FLOODING TREATMENT RESTRAINS VOLUNTEER RICE GERMINATION AND SEEDLING GROWTH. <i>Applied Ecology and Environmental Research</i> , 2018, 16, 7231-7242.	0.5	6
90	Selenium applications enhance 2-acetyl-1-pyrroline biosynthesis and yield formation of fragrant rice. <i>Agronomy Journal</i> , 2021, 113, 250-260.	1.8	4

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91	Emergence and Seedling Establishment of Rice Varieties at Different Sowing Depths. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 1672-1686.	5.1	4
92	Nitrogen sources affected the biosynthesis of 2-acetyl-1-pyrroline, cooked rice elongation and amylose content in rice. <i>PLoS ONE</i> , 2021, 16, e0254182.	2.5	4
93	Mechanized Hybrid Rice Seed Production: Planting Density, the Flight Height of an Unmanned Aerial Vehicle, Fertilizer Application, and the Row-Ratio of Parents. <i>Agronomy</i> , 2022, 12, 1572.	3.0	4
94	Effects of Different Vermicompost Rates on Growth, 2-Acetyl-1-Pyrroline, Photosynthesis and Antioxidant Responses of Fragrant Rice (<i>Oryza sativa</i> L.) Seedling. <i>Phyton</i> , 2021, 90, 1273-1283.	0.7	3
95	Effect Of conservation tillage practices on aroma, yield and quality of mechanical-transplanting fragrant rice. <i>Journal of Plant Interactions</i> , 2021, 16, 522-532.	2.1	3
96	Starch Morphology and Metabolomic Analyses Reveal That the Effect of High Temperature on Cooked Rice Elongation and Expansion Varied in Indica and Japonica Rice Cultivars. <i>Agronomy</i> , 2021, 11, 2416.	3.0	2
97	Agronomic Performances of Fragrant Rice Cultivars under Different Vermicompost Rates. <i>Agronomy</i> , 2022, 12, 681.	3.0	2