Muhammad Farooq

List of Publications by Year
in descending order

321 papers	23,621 citations	10956 71 h-index	11581 135 g-index
329 all docs	329 docs citations	329 times ranked	16766 citing authors

#	Article	IF	Citations
1	Plant drought stress: effects, mechanisms and management. Agronomy for Sustainable Development, 2009, 29, 185-212.	2.2	2,511
2	Heat Stress in Wheat during Reproductive and Grain-Filling Phases. Critical Reviews in Plant Sciences, 2011, 30, 491-507.	2.7	686
3	Cadmium toxicity in plants: Impacts and remediation strategies. Ecotoxicology and Environmental Safety, 2021, 211, 111887.	2.9	653
4	Biochar application to low fertility soils: A review of current status, and future prospects. Geoderma, 2019, 337, 536-554.	2.3	571
5	Plant Drought Stress: Effects, Mechanisms and Management. , 2009, , 153-188.		552
6	Nanotechnology in agriculture: Current status, challenges and future opportunities. Science of the Total Environment, 2020, 721, 137778.	3.9	503
7	Salt stress in maize: effects, resistance mechanisms, and management. A review. Agronomy for Sustainable Development, 2015, 35, 461-481.	2.2	459
8	Rice direct seeding: Experiences, challenges and opportunities. Soil and Tillage Research, 2011, 111, 87-98.	2.6	443
9	Drought Stress in Wheat during Flowering and Grain-filling Periods. Critical Reviews in Plant Sciences, 2014, 33, 331-349.	2.7	438
10	Brassinolide Application Improves the Drought Tolerance in Maize Through Modulation of Enzymatic Antioxidants and Leaf Gas Exchange. Journal of Agronomy and Crop Science, 2011, 197, 177-185.	1.7	333
11	Biochar for crop production: potential benefits and risks. Journal of Soils and Sediments, 2017, 17, 685-716.	1.5	331
12	The role of allelopathy in agricultural pest management. Pest Management Science, 2011, 67, 493-506.	1.7	303
13	Improving Drought Tolerance by Exogenous Application of Glycinebetaine and Salicylic Acid in Sunflower. Journal of Agronomy and Crop Science, 2008, 194, 193-199.	1.7	302
14	Drought Stress in Grain Legumes during Reproduction and Grain Filling. Journal of Agronomy and Crop Science, 2017, 203, 81-102.	1.7	293
15	Thermal Hardening: A New Seed Vigor Enhancement Tool in Rice. Journal of Integrative Plant Biology, 2005, 47, 187-193.	4.1	263
16	Lead toxicity in plants: Impacts and remediation. Journal of Environmental Management, 2019, 250, 109557.	3.8	255
17	Acquiring control: The evolution of ROS-Induced oxidative stress and redox signaling pathways in plant stress responses. Plant Physiology and Biochemistry, 2019, 141, 353-369.	2.8	246
18	Drought stress in sunflower: Physiological effects and its management through breeding and agronomic alternatives. Agricultural Water Management, 2018, 201, 152-166.	2.4	242

#	Article	IF	Citations
19	Drought Stress in Plants: An Overview. , 2012, , 1-33.		227
20	Exogenously applied polyamines increase drought tolerance of rice by improving leaf water status, photosynthesis and membrane properties. Acta Physiologiae Plantarum, 2009, 31, 937-945.	1.0	224
21	Physiological Role of Exogenously Applied Glycinebetaine to Improve Drought Tolerance in Fine Grain Aromatic Rice (Oryza sativa L.). Journal of Agronomy and Crop Science, 2008, 194, 325-333.	1.7	222
22	Micronutrient application through seed treatments: a review. Journal of Soil Science and Plant Nutrition, 2012, 12, 125-142.	1.7	214
23	Priming of field-sown rice seed enhances germination, seedling establishment, allometry and yield. Plant Growth Regulation, 2006, 49, 285-294.	1.8	210
24	Cadmium stress in paddy fields: Effects of soil conditions and remediation strategies. Science of the Total Environment, 2021, 754, 142188.	3.9	193
25	Crop yield and weed management in rainfed conservation agriculture. Soil and Tillage Research, 2011, 117, 172-183.	2.6	187
26	Chilling Tolerance in Hybrid Maize Induced by Seed Priming with Salicylic Acid. Journal of Agronomy and Crop Science, 2008, 194, 161-168.	1.7	182
27	Seed biopriming with plant growth promoting rhizobacteria: a review. FEMS Microbiology Ecology, 2016, 92, fiw112.	1.3	179
28	Potential Mechanisms of Abiotic Stress Tolerance in Crop Plants Induced by Thiourea. Frontiers in Plant Science, 2019, 10, 1336.	1.7	179
29	Advances in Drought Resistance of Rice. Critical Reviews in Plant Sciences, 2009, 28, 199-217.	2.7	177
30	Potassium Substitution by Sodium in Plants. Critical Reviews in Plant Sciences, 2011, 30, 401-413.	2.7	177
31	Zinc nutrition in rice production systems: a review. Plant and Soil, 2012, 361, 203-226.	1.8	175
32	Improving the Drought Tolerance in Rice (Oryza sativa L.) by Exogenous Application of Salicylic Acid. Journal of Agronomy and Crop Science, 2009, 195, 237-246.	1.7	172
33	Effects, tolerance mechanisms and management of salt stress in grain legumes. Plant Physiology and Biochemistry, 2017, 118, 199-217.	2.8	171
34	Enhancing the Performance of Direct Seeded Fine Rice by Seed Priming. Plant Production Science, 2006, 9, 446-456.	0.9	169
35	Methyl Jasmonate-Induced Alteration in Lipid Peroxidation, Antioxidative Defence System and Yield in Soybean Under Drought. Journal of Agronomy and Crop Science, 2011, 197, 296-301.	1.7	162
36	Physiological and biochemical aspects of pre-sowing seed treatments in fine rice (Oryza sativa L.). Seed Science and Technology, 2005, 33, 623-628.	0.6	161

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37	Chilling tolerance in maize: agronomic and physiological approaches. Crop and Pasture Science, 2009, 60, 501.	0.7	159
38	Seed Priming Enhances the Performance of Late Sown Wheat (Triticum aestivum L.) by Improving Chilling Tolerance. Journal of Agronomy and Crop Science, 2008, 194, 55-60.	1.7	155
39	Exogenous application of moringa leaf extract modulates the antioxidant enzyme system to improve wheat performance under saline conditions. Plant Growth Regulation, 2013, 69, 225-233.	1.8	152
40	Zinc nutrition in wheat-based cropping systems. Plant and Soil, 2018, 422, 283-315.	1.8	152
41	Thermal stress impacts reproductive development and grain yield in rice. Plant Physiology and Biochemistry, 2017, 115, 57-72.	2.8	146
42	Food Legumes and Rising Temperatures: Effects, Adaptive Functional Mechanisms Specific to Reproductive Growth Stage and Strategies to Improve Heat Tolerance. Frontiers in Plant Science, 2017, 8, 1658.	1.7	146
43	Improving Water Relations and Gas Exchange with Brassinosteroids in Rice under Drought Stress. Journal of Agronomy and Crop Science, 2009, 195, 262-269.	1.7	145
44	Salt and drought stresses in safflower: a review. Agronomy for Sustainable Development, 2016, 36, 1.	2.2	143
45	Seed Priming with Ascorbic Acid Improves Drought Resistance of Wheat. Journal of Agronomy and Crop Science, 2013, 199, 12-22.	1.7	142
46	Seed priming in field crops: potential benefits, adoption and challenges. Crop and Pasture Science, 2019, 70, 731.	0.7	141
47	Arbuscular mycorrhizal fungi and biochar improves drought tolerance in chickpea. Saudi Journal of Biological Sciences, 2019, 26, 614-624.	1.8	140
48	Seed priming of Zn with endophytic bacteria improves the productivity and grain biofortification of bread wheat. European Journal of Agronomy, 2018, 94, 98-107.	1.9	136
49	Sustainable use and management of non-conventional water resources for rehabilitation of marginal lands in arid and semiarid environments. Agricultural Water Management, 2019, 221, 462-476.	2.4	136
50	Degradation of phenanthrene and pyrene in spiked soils by single and combined plants cultivation. Journal of Hazardous Materials, 2010, 177, 384-389.	6.5	135
51	Improving the Performance of Wheat by Seed Priming Under Saline Conditions. Journal of Agronomy and Crop Science, 2012, 198, 38-45.	1.7	134
52	Integrated phytobial heavy metal remediation strategies for a sustainable clean environment - A review. Chemosphere, 2019, 217, 925-941.	4.2	132
53	What do we really know about alien plant invasion? A review of the invasion mechanism of one of the worldâ€™s worst weeds. Planta, 2016, 244, 39-57.	1.6	130
54	Fulvic Acid Application Improves the Maize Performance under Well-watered and Drought Conditions. Journal of Agronomy and Crop Science, 2011, 197, 409-417.	1.7	128

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55	Antioxidant defense system and proline accumulation enables hot pepper to perform better under drought. Scientia Horticulturae, 2012, 140, 66-73.	1.7	128
56	Exogenously Applied Nitric Oxide Enhances the Drought Tolerance in Fine Grain Aromatic Rice (Oryza sativa L.). Journal of Agronomy and Crop Science, 2009, 195, 254-261.	1.7	122
57	DROUGHT STRESS: Comparative Time Course Action of the Foliar Applied Glycinebetaine, Salicylic Acid, Nitrous Oxide, Brassinosteroids and Spermine in Improving Drought Resistance of Rice. Journal of Agronomy and Crop Science, 2010, 196, 336-345.	1.7	117
58	Cold Stress in Wheat: Plant Acclimation Responses and Management Strategies. Frontiers in Plant Science, 2021, 12, 676884.	1.7	105
59	Broader leaves result in better performance of indica rice under drought stress. Journal of Plant Physiology, 2010, 167, 1066-1075.	1.6	103
60	Role of proline and glycinebetaine pretreatments in improving heat tolerance of sprouting sugarcane (Saccharum sp.) buds. Plant Growth Regulation, 2011, 65, 35-45.	1.8	103
61	Glycinebetaine Improves Chilling Tolerance in Hybrid Maize. Journal of Agronomy and Crop Science, 2008, 194, 152-160.	1.7	101
62	Improving the performance of transplanted rice by seed priming. Plant Growth Regulation, 2007, 51, 129-137.	1.8	97
63	A comprehensive characterisation of safflower oil for its potential applications as a bioactive food ingredient - A review. Trends in Food Science and Technology, 2017, 66, 176-186.	7.8	97
64	Environmental side effects of the injudicious use of antimicrobials in the era of COVID-19. Science of the Total Environment, 2020, 745, 141053.	3.9	96
65	Application of zinc improves the productivity and biofortification of fine grain aromatic rice grown in dry seeded and puddled transplanted production systems. Field Crops Research, 2018, 216, 53-62.	2.3	93
66	Seed priming and transgenerational drought memory improves tolerance against salt stress in bread wheat. Plant Physiology and Biochemistry, 2017, 118, 362-369.	2.8	92
67	Alternate wetting and drying: A water-saving and ecofriendly rice production system. Agricultural Water Management, 2020, 241, 106363.	2.4	88
68	Nutrient homeostasis, metabolism of reserves, and seedling vigor as affected by seed priming in coarse rice. Canadian Journal of Botany, 2006, 84, 1196-1202.	1.2	86
69	Seed invigoration by osmohardening in coarse and fine rice. Seed Science and Technology, 2006, 34, 181-187.	0.6	86
70	Physiological and agronomic approaches for improving water-use efficiency in crop plants. Agricultural Water Management, 2019, 219, 95-108.	2.4	83
71	Application of Micronutrients in Rice-Wheat Cropping System of South Asia. Rice Science, 2019, 26, 356-371.	1.7	82
72	Suppression of cadmium concentration in wheat grains by silicon is related to its application rate and cadmium accumulating abilities of cultivars. Journal of the Science of Food and Agriculture, 2015, 95, 2467-2472.	1.7	81

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73	Seed priming improves chilling tolerance in chickpea by modulating germination metabolism, trehalose accumulation and carbon assimilation. Plant Physiology and Biochemistry, 2017, 111, 274-283.	2.8	77
74	Riceâ€“wheat cropping systems in South Asia: issues, options and opportunities. Crop and Pasture Science, 2019, 70, 395.	0.7	77
75	Brassinosteroid seed priming with nitrogen supplementation improves salt tolerance in soybean. Physiology and Molecular Biology of Plants, 2020, 26, 501-511.	1.4	77
76	Exogenous Glycinebetaine and Salicylic Acid Application Improves Water Relations, Allometry and Quality of Hybrid Sunflower under Water Deficit Conditions. Journal of Agronomy and Crop Science, 2009, 195, 98-109.	1.7	76
77	Pseudomonas-aided zinc application improves the productivity and biofortification of bread wheat. Crop and Pasture Science, 2018, 69, 659.	0.7	76
78	Regulation of photosynthesis under salt stress and associated tolerance mechanisms. Plant Physiology and Biochemistry, 2022, 178, 55-69.	2.8	76
79	Optimization of hydropriming techniques for rice seed invigoration. Seed Science and Technology, 2006, 34, 507-512.	0.6	74
80	Mulching Improves Water Productivity, Yield and Quality of Fine Rice under Waterâ€saving Rice Production Systems. Journal of Agronomy and Crop Science, 2015, 201, 389-400.	1.7	73
81	Alternative control of wild oat and canary grass in wheat fields by allelopathic plant water extracts. Agronomy for Sustainable Development, 2009, 29, 475-482.	2.2	71
82	Gas exchange and chlorophyll synthesis of maize cultivars are enhanced by exogenously-applied glycinebetaine under drought conditions. Plant, Soil and Environment, 2011, 57, 326-331.	1.0	71
83	Heat stress in grain legumes during reproductive and grain-filling phases. Crop and Pasture Science, 2017, 68, 985.	0.7	70
84	Strategies for reducing cadmium accumulation in rice grains. Journal of Cleaner Production, 2021, 286, 125557.	4.6	70
85	Heat stress effects on the reproductive physiology and yield of wheat. Journal of Agronomy and Crop Science, 2022, 208, 1-17.	1.7	70
86	Mulching Affects Soil Properties and Greenhouse Gas Emissions Under Longâ€Term Noâ€Till and Ploughâ€Till Systems in Alfisol of Central Ohio. Land Degradation and Development, 2017, 28, 673-681.	1.8	68
87	Influence of Sesbania Brown Manuring and Rice Residue Mulch on Soil Health, Weeds and System Productivity of Conservation Riceâ€“Wheat Systems. Land Degradation and Development, 2017, 28, 1078-1090.	1.8	66
88	Terrestrial ecosystem functioning affected by agricultural management systems: A review. Soil and Tillage Research, 2020, 196, 104464.	2.6	66
89	Impact of different crop rotations and tillage systems on weed infestation and productivity of bread wheat. Crop Protection, 2016, 89, 161-169.	1.0	65
90	Influence of Heavy Metals on Seed Germination and Seedling Growth of Wheat, Pea, and Tomato. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	65

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91	Weed dynamics and productivity of wheat in conventional and conservation rice-based cropping systems. Soil and Tillage Research, 2014, 141, 1-9.	2.6	64
92	Thermal Stresses in Maize: Effects and Management Strategies. Plants, 2021, 10, 293.	1.6	64
93	Farmyard manure alone and combined with immobilizing amendments reduced cadmium accumulation in wheat and rice grains grown in field irrigated with raw effluents. Chemosphere, 2018, 199, 468-476.	4.2	63
94	Seed priming with sorghum extracts and benzyl aminopurine improves the tolerance against salt stress in wheat (Triticum aestivum L.). Physiology and Molecular Biology of Plants, 2018, 24, 239-249.	1.4	62
95	Seed priming improves early seedling vigor, growth and productivity of spring maize. Journal of Integrative Agriculture, 2015, 14, 1745-1754.	1.7	61
96	Boron nutrition of rice in different production systems. A review. Agronomy for Sustainable Development, 2018, 38, 1.	2.2	61
97	Existence of SARS-CoV-2 in Wastewater: Implications for Its Environmental Transmission in Developing Communities. Environmental Science & Technology, 2020, 54, 7758-7759.	4.6	60
98	Grain development in wheat under combined heat and drought stress: Plant responses and management. Environmental and Experimental Botany, 2021, 188, 104517.	2.0	60
99	Biochar application for the remediation of trace metals in contaminated soils: Implications for stress tolerance and crop production. Ecotoxicology and Environmental Safety, 2022, 230, 113165.	2.9	58
100	Silicon-induced changes in growth, ionic composition, water relations, chlorophyll contents and membrane permeability in two salt-stressed wheat genotypes. Archives of Agronomy and Soil Science, 2012, 58, 247-256.	1.3	57
101	Seed priming with zinc improves the germination and early seedling growth of wheat. Seed Science and Technology, 2015, 43, 262-268.	0.6	57
102	Improving resistance against terminal drought in bread wheat by exogenous application of proline and gammaâ€aminobutyric acid. Journal of Agronomy and Crop Science, 2017, 203, 464-472.	1.7	55
103	Terminal drought and seed priming improves drought tolerance in wheat. Physiology and Molecular Biology of Plants, 2018, 24, 845-856.	1.4	53
104	Wild Oat (Avena Fatua L.) and Canary Grass (Phalaris Minor Ritz.) Management Through Allelopathy. Journal of Plant Protection Research, 2010, 50, 41-44.	1.0	52
105	Application of zinc and biochar help to mitigate cadmium stress in bread wheat raised from seeds with high intrinsic zinc. Chemosphere, 2020, 260, 127652.	4.2	52
106	Zinc seed coating improves the growth, grain yield and grain biofortification of bread wheat. Acta Physiologiae Plantarum, 2016, 38, 1.	1.0	50
107	Crop diversification and saline water irrigation as potential strategies to save freshwater resources and reclamation of marginal soilsâ€”a review. Environmental Science and Pollution Research, 2020, 27, 28695-28729.	2.7	50
108	Co-application of biochar and microorganisms improves soybean performance and remediate cadmium-contaminated soil. Ecotoxicology and Environmental Safety, 2021, 214, 112112.	2.9	50

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109	Potential Role of Plant Growth Regulators in Administering Crucial Processes Against Abiotic Stresses. Frontiers in Agronomy, 2021, 3, .	1.5	50
110	Soil organic carbon dynamics in wheat - Green gram crop rotation amended with vermicompost and biochar in combination with inorganic fertilizers: A comparative study. Journal of Cleaner Production, 2018, 201, 471-480.	4.6	49
111	Rice Seed Invigoration: A Review. Sustainable Agriculture Reviews, 2009, , 137-175.	0.6	48
112	Desi chickpea genotypes tolerate drought stress better than kabuli types by modulating germination metabolism, trehalose accumulation, and carbon assimilation. Plant Physiology and Biochemistry, 2018, 126, 47-54.	2.8	48
113	Silicon nutrition mitigates salinity stress in maize by modulating ion accumulation, photosynthesis, and antioxidants. Photosynthetica, 2018, 56, 1047-1057.	0.9	47
114	Seed priming improves growth of nursery seedlings and yield of transplanted rice. Archives of Agronomy and Soil Science, 2007, 53, 315-326.	1.3	46
115	Comparison of conventional and conservation rice-wheat systems in Punjab, Pakistan. Soil and Tillage Research, 2017, 169, 35-43.	2.6	45
116	Impact of climate change on biology and management of wheat pests. Crop Protection, 2020, 137, 105304.	1.0	45
117	Evaluating the role of seed priming in improving drought tolerance of pigmented and nonâ€pigmented rice. Journal of Agronomy and Crop Science, 2017, 203, 269-276.	1.7	44
118	Impact of Abiotic Stresses on Grain Composition and Quality in Food Legumes. Journal of Agricultural and Food Chemistry, 2018, 66, 8887-8897.	2.4	44
119	Changes in Nutrient-Homeostasis and Reserves Metabolism During Rice Seed Priming: Consequences for Seedling Emergence and Growth. Agricultural Sciences in China, 2010, 9, 191-198.	0.6	43
120	Sulphur application improves the growth, seed yield and oil quality of canola. Acta Physiologiae Plantarum, 2013, 35, 2999-3006.	1.0	43
121	Improving the Productivity of Bread Wheat by Good Management Practices under Terminal Drought. Journal of Agronomy and Crop Science, 2015, 201, 173-188.	1.7	43
122	Adequate zinc nutrition improves the tolerance against drought and heat stresses in chickpea. Plant Physiology and Biochemistry, 2019, 143, 11-18.	2.8	43
123	High intrinsic seed Zn concentration improves abiotic stress tolerance in wheat. Plant and Soil, 2019, 437, 195-213.	1.8	43
124	Exploring the Role of Calcium to Improve Chilling Tolerance in Hybrid Maize. Journal of Agronomy and Crop Science, 2008, 194, 350-359.	1.7	42
125	Implications of Potential Allelopathic Crops in Agricultural Systems. , 2013, , 349-385.		42
126	Agronomic Biofortification of Zinc in Pakistan: Status, Benefits, and Constraints. Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	42

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127	Comparison of conventional puddling and dry tillage in riceâ€“wheat system. Paddy and Water Environment, 2008, 6, 397-404.	1.0	41
128	Economic assessment of different mulches in conventional and water-saving rice production systems. Environmental Science and Pollution Research, 2016, 23, 9156-9163.	2.7	41
129	Zinc nutrition in chickpea (Cicer arietinum): a review. Crop and Pasture Science, 2020, 71, 199.	0.7	41
130	Seed Priming with Polyamines Improves the Germination and Early Seedling Growth in Fine Rice. Journal of New Seeds, 2008, 9, 145-155.	0.3	40
131	Reduced Herbicide Doses Used Together with Allelopathic Sorghum and Sunflower Water Extracts for Weed Control in Wheat. Journal of Plant Protection Research, 2012, 52, 281-285.	1.0	40
132	Weed spectrum in different wheat-based cropping systems under conservation and conventional tillage practices in Punjab, Pakistan. Soil and Tillage Research, 2016, 163, 71-79.	2.6	40
133	Impact of invasive plant species on the livelihoods of farming households: evidence from Parthenium hysterophorus invasion in rural Punjab, Pakistan. Biological Invasions, 2019, 21, 3285-3304.	1.2	40
134	Improving the productivity, profitability and grain quality of kabuli chickpea with co-application of zinc and endophyte bacteria Enterobacter sp. MN17. Archives of Agronomy and Soil Science, 2020, 66, 897-912.	1.3	40
135	Priming enhances germination of spring maize (Zea mays L.) under cool conditions. Seed Science and Technology, 2008, 36, 497-503.	0.6	39
136	Categorization of wheat genotypes for phosphorus efficiency. PLoS ONE, 2018, 13, e0205471.	1.1	39
137	Application of bispyribacâ€sodium provides effective weed control in directâ€planted rice on a sandy loam soil. Weed Biology and Management, 2012, 12, 136-145.	0.6	38
138	Physiological and Yield Responses of Faba bean (Vicia faba L.) to Drought Stress in Managed and Open Field Environments. Journal of Agronomy and Crop Science, 2015, 201, 280-287.	1.7	38
139	Seed priming improves stand establishment and productivity of no till wheat grown after direct seeded aerobic and transplanted flooded rice. European Journal of Agronomy, 2016, 76, 130-137.	1.9	38
140	Characterizing bread wheat genotypes of Pakistani origin for grain zinc biofortification potential. Journal of the Science of Food and Agriculture, 2018, 98, 4824-4836.	1.7	38
141	BORON NUTRIPRIMING IMPROVES THE GERMINATION AND EARLY SEEDLING GROWTH OF RICE (ORYZA) Tj ETQq1 1 0.784314 rgBT	0.9	36
142	Boron Application Improves Growth, Yield and Net Economic Return of Rice. Rice Science, 2012, 19, 259-262.	1.7	36
143	Foliageâ€applied sodium nitroprusside and hydrogen peroxide improves resistance against terminal drought in bread wheat. Journal of Agronomy and Crop Science, 2017, 203, 473-482.	1.7	36
144	Zinc Application in Combination with Zinc Solubilizing Enterobacter sp. MN17 Improved Productivity, Profitability, Zinc Efficiency, and Quality of Desi Chickpea. Journal of Soil Science and Plant Nutrition, 2020, 20, 2133-2144.	1.7	36

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145	Optimizing zinc seed priming for improving the growth, yield and grain biofortification of mungbean (Vigna radiata (L.) wilczek). Journal of Plant Nutrition, 2020, 43, 1438-1446.	0.9	36
146	White Mustard (Sinapis alba L.) Oil in Biodiesel Production: A Review. Frontiers in Plant Science, 2020, 11, 299.	1.7	36
147	Hypoxia and Anoxia Stress: Plant responses and tolerance mechanisms. Journal of Agronomy and Crop Science, 2021, 207, 249-284.	1.7	36
148	Selenium treated foliage and biochar treated soil for improved lettuce (Lactuca sativa L.) growth in Cd-polluted soil. Journal of Cleaner Production, 2022, 335, 130267.	4.6	36
149	Rice seed invigoration by hormonal and vitamin priming. Seed Science and Technology, 2006, 34, 753-758.	0.6	35
150	Seed pretreatment with hydrogen peroxide improves heat tolerance in maize at germination and seedling growth stages. Seed Science and Technology, 2008, 36, 633-645.	0.6	35
151	Improvement of Pisum sativum salt stress tolerance by bio-priming their seeds using Typha angustifolia leaves aqueous extract. South African Journal of Botany, 2016, 105, 240-250.	1.2	35
152	Effects, tolerance mechanisms and management of salt stress in lucerne (Medicago sativa). Crop and Pasture Science, 2020, 71, 411.	0.7	35
153	Conservation Agriculture: Concepts, Brief History, and Impacts on Agricultural Systems. , 2015, , 3-17.		35
154	Rapid injuries of high temperature in plants. Journal of Plant Biology, 2017, 60, 298-305.	0.9	34
155	Using Biotechnology-Led Approaches to Uplift Cereal and Food Legume Yields in Dryland Environments. Frontiers in Plant Science, 2018, 9, 1249.	1.7	34
156	Integrated use of seed priming and biochar improves salt tolerance in cowpea. Scientia Horticulturae, 2020, 272, 109507.	1.7	34
157	Foliar nutrition: Potential and challenges under multifaceted agriculture. Environmental and Experimental Botany, 2022, 200, 104909.	2.0	34
158	Comparative efficacy of surface drying and re-drying seed priming in rice: changes in emergence, seedling growth and associated metabolic events. Paddy and Water Environment, 2010, 8, 15-22.	1.0	33
159	Application of Allelopathy in Crop Production: Success Story from Pakistan. , 2013, , 113-143.		32
160	WATER SAVING, WATER PRODUCTIVITY AND YIELD OUTPUTS OF FINE-GRAIN RICE CULTIVARS UNDER CONVENTIONAL AND WATER-SAVING RICE PRODUCTION SYSTEMS. Experimental Agriculture, 2015, 51, 567-581.	0.4	32
161	Morphological, physiological and biochemical aspects of osmoprimingâ€induced drought tolerance in lentil. Journal of Agronomy and Crop Science, 2020, 206, 176-186.	1.7	32
162	Quantitative Trait Loci Mapping for Leaf Length and Leaf Width in Rice cv. IR64 Derived Lines. Journal of Integrative Plant Biology, 2010, 52, 578-584.	4.1	31

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163	Evaluating surface drying and re-drying for wheat seed priming with polyamines: effects on emergence, early seedling growth and starch metabolism. Acta Physiologiae Plantarum, 2011, 33, 1707-1713.	1.0	31
164	Seed priming with boron improves growth and yield of fine grain aromatic rice. Plant Growth Regulation, 2012, 68, 189-201.	1.8	31
165	Influence of boron nutrition on the rice productivity, kernel quality and biofortification in different production systems. Field Crops Research, 2014, 169, 123-131.	2.3	31
166	Effect of humic and fulvic acid transformation on cadmium availability to wheat cultivars in sewage sludge amended soil. Environmental Science and Pollution Research, 2018, 25, 16071-16079.	2.7	31
167	Application of natural plant extracts improves the tolerance against combined terminal heat and drought stresses in bread wheat. Journal of Agronomy and Crop Science, 2017, 203, 528-538.	1.7	30
168	MANGANESE NUTRITION IMPROVES THE PRODUCTIVITY AND GRAIN BIOFORTIFICATION OF BREAD WHEAT IN ALKALINE CALCAREOUS SOIL. Experimental Agriculture, 2018, 54, 744-754.	0.4	30
169	Proline accumulation, ion homeostasis and antioxidant defence system alleviate salt stress and protect carbon assimilation in bread wheat genotypes of Omani origin. Environmental and Experimental Botany, 2022, 193, 104687.	2.0	30
170	Economic assessment of conventional and conservation tillage practices in different wheat-based cropping systems of Punjab, Pakistan. Environmental Science and Pollution Research, 2017, 24, 24634-24643.	2.7	29
171	DIFFERENTIAL RESPONSE OF MAIZE AND MUNGBEAN TO TOBACCO ALLELOPATHY. Experimental Agriculture, 2014, 50, 611-624.	0.4	28
172	Supraâ€optimal growth temperature exacerbates adverse effects of low Zn supply in wheat. Journal of Plant Nutrition and Soil Science, 2019, 182, 656-666.	1.1	28
173	Effect of crop residues applied isolated or in combination on the germination and seedling growth of horse purslane (Trianthema portulacastrum). Planta Daninha, 2011, 29, 121-128.	0.5	27
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