Muhammad Farooq

List of Publications by Citations

321 papers	14,552 citations	63 h-index	111 g-index
329 ext. papers	18,496 ext. citations	3.8 avg, IF	7.13 L-index

#	Paper	IF	Citations
321	Plant drought stress: effects, mechanisms and management. *Agronomy for Sustainable Development*, **2009**, 29, 185-212	6.8	1743
320	Heat Stress in Wheat during Reproductive and Grain-Filling Phases. *Critical Reviews in Plant Sciences* , **2011**, 30, 491-507	5.6	475
319	Biochar application to low fertility soils: A review of current status, and future prospects. *Geoderma* , **2019**, 337, 536-554	6.7	357
318	Plant Drought Stress: Effects, Mechanisms and Management **2009**, 153-188		331
317	Rice direct seeding: Experiences, challenges and opportunities. *Soil and Tillage Research*, **2011**, 111, 87-98	5.5	291
316	Drought Stress in Wheat during Flowering and Grain-filling Periods. *Critical Reviews in Plant Sciences*, **2014**, 33, 331-349	5.6	288
315	Salt stress in maize: effects, resistance mechanisms, and management. A review. *Agronomy for Sustainable Development*, **2015**, 35, 461-481	6.8	286
314	The role of allelopathy in agricultural pest management. *Pest Management Science*, **2011**, 67, 493-506	4.6	232
313	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	3.9	227
312	Nanotechnology in agriculture: Current status, challenges and future opportunities. *Science of the Total Environment*, **2020**, 721, 137778	10.2	226
311	Improving Drought Tolerance by Exogenous Application of Glycinebetaine and Salicylic Acid in Sunflower. *Journal of Agronomy and Crop Science*, **2008**, 194, 193-199	3.9	224
310	Biochar for crop production: potential benefits and risks. *Journal of Soils and Sediments*, **2017**, 17, 685-716	3.4	222
309	Drought Stress in Grain Legumes during Reproduction and Grain Filling. *Journal of Agronomy and Crop Science*, **2017**, 203, 81-102	3.9	182
308	Exogenously applied polyamines increase drought tolerance of rice by improving leaf water status, photosynthesis and membrane properties. *Acta Physiologiae Plantarum*, **2009**, 31, 937-945	2.6	180
307	Thermal Hardening: A New Seed Vigor Enhancement Tool in Rice. *Journal of Integrative Plant Biology*, **2005**, 47, 187-193	8.3	180
306	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	3.9	174
305	Cadmium toxicity in plants: Impacts and remediation strategies. *Ecotoxicology and Environmental Safety*, **2021**, 211, 111887	7	156

304	Priming of field-sown rice seed enhances germination, seedling establishment, allometry and yield. *Plant Growth Regulation*, **2006**, 49, 285-294	3.2	142
303	Crop yield and weed management in rainfed conservation agriculture. *Soil and Tillage Research*, **2011**, 117, 172-183	6.5	141
302	Chilling Tolerance in Hybrid Maize Induced by Seed Priming with Salicylic Acid. *Journal of Agronomy and Crop Science*, **2008**, 194, 161-168	3.9	140
301	Advances in Drought Resistance of Rice. *Critical Reviews in Plant Sciences*, **2009**, 28, 199-217	5.6	138
300	Micronutrient application through seed treatments: a review. *Journal of Soil Science and Plant Nutrition*, **2012**, 12, 125-142	3.2	137
299	Drought Stress in Plants: An Overview **2012**, 1-33		134
298	Drought stress in sunflower: Physiological effects and its management through breeding and agronomic alternatives. *Agricultural Water Management*, **2018**, 201, 152-166	5.9	133
297	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	5.4	129
296	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	3.9	124
295	Improving Water Relations and Gas Exchange with Brassinosteroids in Rice under Drought Stress. *Journal of Agronomy and Crop Science*, **2009**, 195, 262-269	3.9	123
294	Seed biopriming with plant growth promoting rhizobacteria: a review. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	120
293	Zinc nutrition in rice production systems: a review. *Plant and Soil*, **2012**, 361, 203-226	4.2	118
292	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	3.9	118
291	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	118
290	Degradation of phenanthrene and pyrene in spiked soils by single and combined plants cultivation. *Journal of Hazardous Materials*, **2010**, 177, 384-9	12.8	117
289	Potassium Substitution by Sodium in Plants. *Critical Reviews in Plant Sciences*, **2011**, 30, 401-413	5.6	116
288	Chilling tolerance in maize: agronomic and physiological approaches. *Crop and Pasture Science*, **2009**, 60, 501	2.2	112
287	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	3.9	107

286	Seed Priming with Ascorbic Acid Improves Drought Resistance of Wheat. *Journal of Agronomy and Crop Science*, **2013**, 199, 12-22	3.9	106
285	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	3.2	106
284	Enhancing the Performance of Direct Seeded Fine Rice by Seed Priming. *Plant Production Science*, **2006**, 9, 446-456	2.4	103
283	Effects, tolerance mechanisms and management of salt stress in grain legumes. *Plant Physiology and Biochemistry*, **2017**, 118, 199-217	5.4	101
282	Improving the Performance of Wheat by Seed Priming Under Saline Conditions. *Journal of Agronomy and Crop Science*, **2012**, 198, 38-45	3.9	101
281	Antioxidant defense system and proline accumulation enables hot pepper to perform better under drought. *Scientia Horticulturae*, **2012**, 140, 66-73	4.1	98
280	Zinc nutrition in wheat-based cropping systems. *Plant and Soil*, **2018**, 422, 283-315	4.2	97
279	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	6.2	96
278	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	3.9	94
277	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	3.9	94
276	Lead toxicity in plants: Impacts and remediation. *Journal of Environmental Management*, **2019**, 250, 109557	5.7	90
275	Salt and drought stresses in safflower: a review. *Agronomy for Sustainable Development*, **2016**, 36, 1	6.8	88
274	Fulvic Acid Application Improves the Maize Performance under Well-watered and Drought Conditions. *Journal of Agronomy and Crop Science*, **2011**, 197, 409-417	3.9	88
273	Seed priming of Zn with endophytic bacteria improves the productivity and grain biofortification of bread wheat. *European Journal of Agronomy*, **2018**, 94, 98-107	5	87
272	What do we really know about alien plant invasion? A review of the invasion mechanism of one of the world's worst weeds. *Planta*, **2016**, 244, 39-57	4.7	87
271	Glycinebetaine Improves Chilling Tolerance in Hybrid Maize. *Journal of Agronomy and Crop Science*, **2008**, 194, 152-160	3.9	85
270	Potential Mechanisms of Abiotic Stress Tolerance in Crop Plants Induced by Thiourea. *Frontiers in Plant Science*, **2019**, 10, 1336	6.2	85
269	Arbuscular mycorrhizal fungi and biochar improves drought tolerance in chickpea. *Saudi Journal of Biological Sciences*, **2019**, 26, 614-624	4	81

268	Role of proline and glycinebetaine pretreatments in improving heat tolerance of sprouting sugarcane (Saccharum sp.) buds. *Plant Growth Regulation*, **2011**, 65, 35-45	3.2	80
267	Thermal stress impacts reproductive development and grain yield in rice. *Plant Physiology and Biochemistry*, **2017**, 115, 57-72	5.4	77
266	Integrated phytobial heavy metal remediation strategies for a sustainable clean environment - A review. *Chemosphere*, **2019**, 217, 925-941	8.4	75
265	Broader leaves result in better performance of indica rice under drought stress. *Journal of Plant Physiology*, **2010**, 167, 1066-75	3.6	72
264	Seed priming in field crops: potential benefits, adoption and challenges. *Crop and Pasture Science*, **2019**, 70, 731	2.2	70
263	Nutrient homeostasis, metabolism of reserves, and seedling vigor as affected by seed priming in coarse rice. *Canadian Journal of Botany*, **2006**, 84, 1196-1202		70
262	Improving the performance of transplanted rice by seed priming. *Plant Growth Regulation*, **2007**, 51, 129-137	3.2	68
261	Seed invigoration by osmohardening in coarse and fine rice. *Seed Science and Technology*, **2006**, 34, 181-187	0.7	68
260	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	5.9	63
259	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, 2467-72	4.3	63
258	Seed priming and transgenerational drought memory improves tolerance against salt stress in bread wheat. *Plant Physiology and Biochemistry*, **2017**, 118, 362-369	5.4	61
257	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	5.5	61
256	Mulching Improves Water Productivity, Yield and Quality of Fine Rice under Water-saving Rice Production Systems. *Journal of Agronomy and Crop Science*, **2015**, 201, 389-400	3.9	60
255	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	3.9	60
254	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	15.3	56
253	Seed priming improves chilling tolerance in chickpea by modulating germination metabolism, trehalose accumulation and carbon assimilation. *Plant Physiology and Biochemistry*, **2017**, 111, 274-283	5.4	54
252	Weed dynamics and productivity of wheat in conventional and conservation rice-based cropping systems. *Soil and Tillage Research*, **2014**, 141, 1-9	6.5	54
251	Influence of Sesbania Brown Manuring and Rice Residue Mulch on Soil Health, Weeds and System Productivity of Conservation Rice–Wheat Systems. *Land Degradation and Development*, **2017**, 28, 1078-1090	4.4	51

250	Optimization of hydropriming techniques for rice seed invigoration. *Seed Science and Technology*, **2006**, 34, 507-512	0.6	51
249	Pseudomonas-aided zinc application improves the productivity and biofortification of bread wheat. *Crop and Pasture Science*, **2018**, 69, 659	2.2	50
248	Alternative control of wild oat and canary grass in wheat fields by allelopathic plant water extracts. *Agronomy for Sustainable Development*, **2009**, 29, 475-482	6.8	50
247	Impact of different crop rotations and tillage systems on weed infestation and productivity of bread wheat. *Crop Protection*, **2016**, 89, 161-169	2.7	50
246	Mulching Affects Soil Properties and Greenhouse Gas Emissions Under Long-Term No-Till and Plough-Till Systems in Alfisol of Central Ohio. *Land Degradation and Development*, **2017**, 28, 673-681	4.4	47
245	Environmental side effects of the injudicious use of antimicrobials in the era of COVID-19. *Science of the Total Environment*, **2020**, 745, 141053	10.2	47
244	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	8.4	46
243	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	2.2	45
242	Wild Oat (Avena Fatua L.) and Canary Grass (Phalaris Minor Ritz.) Management Through Allelopathy. *Journal of Plant Protection Research*, **2010**, 50, 41-44		45
241	Cadmium stress in paddy fields: Effects of soil conditions and remediation strategies. *Science of the Total Environment*, **2021**, 754, 142188	10.2	45
240	Rice□wheat cropping systems in South Asia: issues, options and opportunities. *Crop and Pasture Science*, **2019**, 70, 395	2.2	44
239	Boron nutrition of rice in different production systems. A review. *Agronomy for Sustainable Development*, **2018**, 38, 1	6.8	44
238	Seed priming with sorghum extracts and benzyl aminopurine improves the tolerance against salt stress in wheat (L.). *Physiology and Molecular Biology of Plants*, **2018**, 24, 239-249	2.8	43
237	Heat stress in grain legumes during reproductive and grain-filling phases. *Crop and Pasture Science*, **2017**, 68, 985	2.2	42
236	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	2	42
235	Seed priming improves early seedling vigor, growth and productivity of spring maize. *Journal of Integrative Agriculture*, **2015**, 14, 1745-1754	3.2	41
234	Brassinosteroid seed priming with nitrogen supplementation improves salt tolerance in soybean. *Physiology and Molecular Biology of Plants*, **2020**, 26, 501-511	2.8	40
233	Application of Micronutrients in Rice-Wheat Cropping System of South Asia. *Rice Science*, **2019**, 26, 356-378	3.8	40

232	Seed priming with zinc improves the germination and early seedling growth of wheat. *Seed Science and Technology*, **2015**, 43, 262-268	0.6	38
231	Rice Seed Invigoration: A Review. *Sustainable Agriculture Reviews*, **2009**, 137-175	1.3	36
230	Comparison of conventional puddling and dry tillage in rice–wheat system. *Paddy and Water Environment*, **2008**, 6, 397-404	1.6	36
229	Comparison of conventional and conservation rice-wheat systems in Punjab, Pakistan. *Soil and Tillage Research*, **2017**, 169, 35-43	6.5	34
228	Physiological and agronomic approaches for improving water-use efficiency in crop plants. *Agricultural Water Management*, **2019**, 219, 95-108	5.9	34
227	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		34
226	Terrestrial ecosystem functioning affected by agricultural management systems: A review. *Soil and Tillage Research*, **2020**, 196, 104464	6.5	33
225	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	5	32
224	Application of bispyribac-sodium provides effective weed control in direct-planted rice on a sandy loam soil. *Weed Biology and Management*, **2012**, 12, 136-145	1.4	32
223	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		32
222	Alternate wetting and drying: A water-saving and ecofriendly rice production system. *Agricultural Water Management*, **2020**, 241, 106363	5.9	32
221	Exploring the Role of Calcium to Improve Chilling Tolerance in Hybrid Maize. *Journal of Agronomy and Crop Science*, **2008**, 194, 350-359	3.9	31
220	Seed priming improves growth of nursery seedlings and yield of transplanted rice. *Archives of Agronomy and Soil Science*, **2007**, 53, 315-326	2	31
219	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	10.3	30
218	Implications of Potential Allelopathic Crops in Agricultural Systems **2013**, 349-385		30
217	Cold Stress in Wheat: Plant Acclimation Responses and Management Strategies. *Frontiers in Plant Science*, **2021**, 12, 676884	6.2	30
216	Zinc seed coating improves the growth, grain yield and grain biofortification of bread wheat. *Acta Physiologiae Plantarum*, **2016**, 38, 1	2.6	29
215	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	6.5	29

214	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	29
213	Evaluating the role of seed priming in improving drought tolerance of pigmented and non-pigmented rice. *Journal of Agronomy and Crop Science*, **2017**, 203, 269-276	3.9	28
212	Improving resistance against terminal drought in bread wheat by exogenous application of proline and gamma-aminobutyric acid. *Journal of Agronomy and Crop Science*, **2017**, 203, 464-472	3.9	28
211	Improving the Productivity of Bread Wheat by Good Management Practices under Terminal Drought. *Journal of Agronomy and Crop Science*, **2015**, 201, 173-188	3.9	28
210	Priming enhances germination of spring maize (Zea mays L.) under cool conditions. *Seed Science and Technology*, **2008**, 36, 497-503	0.6	28
209	High intrinsic seed Zn concentration improves abiotic stress tolerance in wheat. *Plant and Soil*, **2019** , 437, 195-213	4.2	27
208	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	1.7	27
207	Quantitative trait loci mapping for leaf length and leaf width in rice cv. IR64 derived lines. *Journal of Integrative Plant Biology*, **2010**, 52, 578-84	8.3	27
206	Influence of boron nutrition on the rice productivity, kernel quality and biofortification in different production systems. *Field Crops Research*, **2014**, 169, 123-131	5.5	26
205	Sulphur application improves the growth, seed yield and oil quality of canola. *Acta Physiologiae Plantarum*, **2013**, 35, 2999-3006	2.6	26
204	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	3.9	26
203	BORON NUTRIPRIMING IMPROVES THE GERMINATION AND EARLY SEEDLING GROWTH OF RICE (ORYZA SATIVA L.). *Journal of Plant Nutrition*, **2011**, 34, 1507-1515	2.3	26
202	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	2.6	26
201	Economic assessment of different mulches in conventional and water-saving rice production systems. *Environmental Science and Pollution Research*, **2016**, 23, 9156-63	5.1	25
200	Seed priming with boron improves growth and yield of fine grain aromatic rice. *Plant Growth Regulation*, **2012**, 68, 189-201	3.2	25
199	Seed Priming with Polyamines Improves the Germination and Early Seedling Growth in Fine Rice. *Journal of New Seeds*, **2008**, 9, 145-155		25
198	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	5.4	24
197	Terminal drought and seed priming improves drought tolerance in wheat. *Physiology and Molecular Biology of Plants*, **2018**, 24, 845-856	2.8	24

196	Boron Application Improves Growth, Yield and Net Economic Return of Rice. *Rice Science*, **2012**, 19, 259-262	3.2	24
195	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	1.6	24
194	Direct Seeding in Rice: Problems and Prospects **2019**, 199-222		24
193	Application of zinc and biochar help to mitigate cadmium stress in bread wheat raised from seeds with high intrinsic zinc. *Chemosphere*, **2020**, 260, 127652	8.4	24
192	Influence of Heavy Metals on Seed Germination and Seedling Growth of Wheat, Pea, and Tomato. *Water, Air, and Soil Pollution*, **2019**, 230, 1	2.6	24
191	Silicon nutrition mitigates salinity stress in maize by modulating ion accumulation, photosynthesis, and antioxidants. *Photosynthetica*, **2018**, 56, 1047-1057	2.2	23
190	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	2.9	23
189	Categorization of wheat genotypes for phosphorus efficiency. *PLoS ONE*, **2018**, 13, e0205471	3.7	23
188	Adequate zinc nutrition improves the tolerance against drought and heat stresses in chickpea. *Plant Physiology and Biochemistry*, **2019**, 143, 11-18	5.4	21
187	Impact of Abiotic Stresses on Grain Composition and Quality in Food Legumes. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 8887-8897	5.7	21
186	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	3.9	20
185	Crop diversification and saline water irrigation as potential strategies to save freshwater resources and reclamation of marginal soils-a review. *Environmental Science and Pollution Research*, **2020**, 27, 28695-28729	5.1	20
184	Influence of different sewage sludges and composts on growth, yield, and trace elements accumulation in rice and wheat. *Land Degradation and Development*, **2018**, 29, 1343-1352	4.4	20
183	MANGANESE NUTRITION IMPROVES THE PRODUCTIVITY AND GRAIN BIOFORTIFICATION OF BREAD WHEAT IN ALKALINE CALCAREOUS SOIL. *Experimental Agriculture*, **2018**, 54, 744-754	1.7	20
182	ROLE OF BORON IN LEAF ELONGATION AND TILLERING DYNAMICS IN FINE-GRAIN AROMATIC RICE. *Journal of Plant Nutrition*, **2013**, 36, 42-54	2.3	20
181	Rice seed invigoration by hormonal and vitamin priming. *Seed Science and Technology*, **2006**, 34, 753-758	0.6	20
180	Boron Seed Priming Improves the Seedling Emergence, Growth, Grain Yield and Grain Biofortification of Bread Wheat. *International Journal of Agriculture and Biology*, **2017**, 19, 177-182	1.5	20
179	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	2	20

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177	Integrated use of seed priming and biochar improves salt tolerance in cowpea. *Scientia Horticulturae*, **2020**, 272, 109507	4.1	19
176	Application of Allelopathy in Crop Production: Success Story from Pakistan **2013**, 113-143		19
175	DIFFERENTIAL RESPONSE OF MAIZE AND MUNGBEAN TO TOBACCO ALLELOPATHY. *Experimental Agriculture*, **2014**, 50, 611-624	1.7	19
174	Zinc nutrition in chickpea (Cicer arietinum): a review. *Crop and Pasture Science*, **2020**, 71, 199	2.2	19
173	Thermal Stresses in Maize: Effects and Management Strategies. *Plants*, **2021**, 10,	4.5	19
172	Foliage-applied sodium nitroprusside and hydrogen peroxide improves resistance against terminal drought in bread wheat. *Journal of Agronomy and Crop Science*, **2017**, 203, 473-482	3.9	18
171	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	5.1	18
170	Zinc Nutrition for Improving the Productivity and Grain Biofortification of Mungbean. *Journal of Soil Science and Plant Nutrition*, **2020**, 20, 1321-1335	3.2	18
169	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	5.1	18
168	Rapid injuries of high temperature in plants **2017**, 60, 298-305		18
167	Weed management in resource conservation production systems in Pakistan. *Crop Protection*, **2016**, 85, 89-103	2.7	18
166	Improving the performance of short-duration basmati rice in water-saving production systems by boron nutrition. *Annals of Applied Biology*, **2016**, 168, 19-28	2.6	18
165	Strategies for reducing cadmium accumulation in rice grains. *Journal of Cleaner Production*, **2021**, 286, 125557	10.3	18
164	Using Sorghum to suppress weeds in dry seeded aerobic and puddled transplanted rice. *Field Crops Research*, **2017**, 214, 211-218	5.5	17
163	Productivity and profitability of cotton□wheat system as influenced by relay intercropping of insect resistant transgenic cotton in bed planted wheat. *European Journal of Agronomy*, **2016**, 75, 33-41	5	17
162	Maize□sorghum intercropping systems for purple nutsedge management. *Archives of Agronomy and Soil Science*, **2013**, 59, 1279-1288	2	17
161	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	3.2	16

160	Characterizing bread wheat genotypes of Pakistani origin for grain zinc biofortification potential. *Journal of the Science of Food and Agriculture*, **2018**, 98, 4824-4836	4.3	16
159	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	2.7	16
158	Seed priming with sorghum water extract and benzyl amino purine along with surfactant improves germination metabolism and early seedling growth of wheat. *Archives of Agronomy and Soil Science*, **2017**, 63, 319-329	2	16
157	Influence of Seed Priming on Performance and Water Productivity of Direct Seeded Rice in Alternating Wetting and Drying. *Rice Science*, **2015**, 22, 189-196	3.8	16
156	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	0.7	16
155	VARIATION IN PHOSPHORUS EFFICIENCY AMONG BRASSICA CULTIVARS I: INTERNAL UTILIZATION AND PHOSPHORUS REMOBILIZATION. *Journal of Plant Nutrition*, **2011**, 34, 2006-2017	2.3	16
154	Enhancing the performance of transplanted coarse rice by seed priming. *Paddy and Water Environment*, **2009**, 7, 55-63	1.6	16
153	Allelopathy and Abiotic Stress Interaction in Crop Plants **2013**, 451-468		16
152	Impact of climate change on biology and management of wheat pests. *Crop Protection*, **2020**, 137, 105304	2.7	15
151	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	2.3	15
150	Optimizing row spacing in wheat cultivars differing in tillering and stature for higher productivity. *Archives of Agronomy and Soil Science*, **2013**, 59, 1457-1470	2	14
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