Kadambot Siddique

List of Publications by Year
in descending order

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625 papers	31,498 citations	4658 85 h-index	11308 136 g-index
633 all docs	633 docs citations	633 times ranked	19123 citing authors

#	Article	IF	Citations
1	Heat Stress in Wheat during Reproductive and Grain-Filling Phases. Critical Reviews in Plant Sciences, 2011, 30, 491-507.	5.7	686
2	Neglecting legumes has compromised human health and sustainable food production. Nature Plants, 2016, 2, 16112.	9.3	529
3	Polyamines: Natural and engineered abiotic and biotic stress tolerance in plants. Biotechnology Advances, 2011, 29, 300-311.	11.7	465
4	Salt stress in maize: effects, resistance mechanisms, and management. A review. Agronomy for Sustainable Development, 2015, 35, 461-481.	5.3	459
5	Ridge-Furrow Mulching Systemsâ€"An Innovative Technique for Boosting Crop Productivity in Semiarid Rain-Fed Environments. Advances in Agronomy, 2013, , 429-476.	5.2	453
6	Rice direct seeding: Experiences, challenges and opportunities. Soil and Tillage Research, 2011, 111, 87-98.	5.6	443
7	Drought Stress in Wheat during Flowering and Grain-filling Periods. Critical Reviews in Plant Sciences, 2014, 33, 331-349.	5.7	438
8	Drought or/and Heat-Stress Effects on Seed Filling in Food Crops: Impacts on Functional Biochemistry, Seed Yields, and Nutritional Quality. Frontiers in Plant Science, 2018, 9, 1705.	3.6	371
9	Morphological and Physiological Traits Associated with Wheat Yield Increases in Mediterranean Environments. Advances in Agronomy, 1994, 52, 229-276.	5.2	340
10	Regulated deficit irrigation for crop production under drought stress. A review. Agronomy for Sustainable Development, 2016, 36, 1.	5.3	340
11	Biochar for crop production: potential benefits and risks. Journal of Soils and Sediments, 2017, 17, 685-716.	3.0	331
12	Root:shoot ratios of old and modern, tall and semi-dwarf wheats in a mediterranean environment. Plant and Soil, 1990, 121, 89-98.	3.7	316
13	The role of allelopathy in agricultural pest management. Pest Management Science, 2011, 67, 493-506.	3.4	303
14	Drought Stress in Grain Legumes during Reproduction and Grain Filling. Journal of Agronomy and Crop Science, 2017, 203, 81-102.	3.5	293
15	Water use and water use efficiency of old and modern wheat cultivars in a Mediterranean-type environment. Australian Journal of Agricultural Research, 1990, 41, 431.	1.5	271
16	Drought Stress in Plants: An Overview. , 2012, , 1-33.		227
17	Ear: Stem ratio in old and modern wheat varieties; relationship with improvement in number of grains per ear and yield. Field Crops Research, 1989, 21, 59-78.	5.1	225
18	Resequencing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domestication and agronomic traits. Nature Genetics, 2019, 51, 857-864.	21.4	219

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19	Micronutrient application through seed treatments: a review. Journal of Soil Science and Plant Nutrition, 2012, 12, 125-142.	3.4	214
20	Individual and combined effects of transient drought and heat stress on carbon assimilation and seed filling in chickpea. Functional Plant Biology, 2014, 41, 1148.	2.1	214
21	Arsenic toxicity in plants: Cellular and molecular mechanisms of its transport and metabolism. Environmental and Experimental Botany, 2016, 132, 42-52.	4.2	213
22	A comprehensive resource of drought- and salinity- responsive ESTs for gene discovery and marker development in chickpea (Cicer arietinum L.). BMC Genomics, 2009, 10, 523.	2.8	199
23	Effects of Drought, Heat and Their Interaction on the Growth, Yield and Photosynthetic Function of Lentil (Lens culinaris Medikus) Genotypes Varying in Heat and Drought Sensitivity. Frontiers in Plant Science, 2017, 8, 1776.	3.6	199
24	Physiological responses of chickpea genotypes to terminal drought in a Mediterranean-type environment. European Journal of Agronomy, 1999, 11, 279-291.	4.1	194
25	Salt sensitivity in chickpea. Plant, Cell and Environment, 2010, 33, 490-509.	5.7	194
26	Flower numbers, pod production, pollen viability, and pistil function are reduced and flower and pod abortion increased in chickpea (Cicer arietinum L.) under terminal drought. Journal of Experimental Botany, 2010, 61, 335-345.	4.8	193
27	Adaptation and seed yield of cool season grain legumes in Mediterranean environments of south-western Australia. Australian Journal of Agricultural Research, 1999, 50, 375.	1.5	189
28	Crop yield and weed management in rainfed conservation agriculture. Soil and Tillage Research, 2011, 117, 172-183.	5.6	187
29	Sequencing of Cultivated Peanut, Arachis hypogaea, Yields Insights into Genome Evolution and Oil Improvement. Molecular Plant, 2019, 12, 920-934.	8.3	185
30	Water use and water use efficiency of cool season grain legumes in low rainfall Mediterranean-type environments. European Journal of Agronomy, 2001, 15, 267-280.	4.1	180
31	Corrigenda - Growth, development and light interception of old and modern wheat cultivars in a Mediterranean-type environment. Australian Journal of Agricultural Research, 1989, 40, 473.	1.5	179
32	Heat-stress-induced reproductive failures in chickpea (Cicer arietinum) are associated with impaired sucrose metabolism in leaves and anthers. Functional Plant Biology, 2013, 40, 1334.	2.1	179
33	Ascochyta blight of chickpea (Cicer arietinum L.): a review of biology, pathogenicity, and disease management. Australian Journal of Agricultural Research, 2005, 56, 317.	1.5	178
34	Moderate Drought Stress Affected Root Growth and Grain Yield in Old, Modern and Newly Released Cultivars of Winter Wheat. Frontiers in Plant Science, 2017, 8, 672.	3.6	178
35	Advances in Drought Resistance of Rice. Critical Reviews in Plant Sciences, 2009, 28, 199-217.	5.7	177
36	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. Science of the Total Environment, 2022, 822, 153555.	8.0	174

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37	Effects, tolerance mechanisms and management of salt stress in grain legumes. Plant Physiology and Biochemistry, 2017, 118, 199-217.	5.8	171
38	A review of the potential of Lathyrus sativus L. and L. cicera L. grain for use as animal feed. Animal Feed Science and Technology, 2000, 87, 1-27.	2.2	165
39	Faba bean breeding for drought-affected environments: A physiological and agronomic perspective. Field Crops Research, 2010, 115, 279-286.	5.1	160
40	Chilling tolerance in maize: agronomic and physiological approaches. Crop and Pasture Science, 2009, 60, 501.	1.5	159
41	Innovations in agronomy for food legumes. A review. Agronomy for Sustainable Development, 2012, 32, 45-64.	5.3	158
42	Zinc nutrition in wheat-based cropping systems. Plant and Soil, 2018, 422, 283-315.	3.7	152
43	Large variation in salinity tolerance in chickpea is explained by differences in sensitivity at the reproductive stage. Field Crops Research, 2007, 104, 123-129.	5.1	146
44	Thermal stress impacts reproductive development and grain yield in rice. Plant Physiology and Biochemistry, 2017, 115, 57-72.	5.8	146
45	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.	3.6	146
46	Variation in pod production and abortion among chickpea cultivars under terminal drought. European Journal of Agronomy, 2006, 24, 236-246.	4.1	144
47	Seed priming in field crops: potential benefits, adoption and challenges. Crop and Pasture Science, 2019, 70, 731.	1.5	141
48	Low-Temperature Stress: Implications for Chickpea (Cicer arietinumL.) Improvement. Critical Reviews in Plant Sciences, 2003, 22, 185-219.	5.7	135
49	Chickpea molecular breeding: New tools and concepts. Euphytica, 2006, 147, 81-103.	1.2	135
50	The carboxylateâ€releasing phosphorusâ€mobilizing strategy can be proxied by foliar manganese concentration in a large set of chickpea germplasm under low phosphorus supply. New Phytologist, 2018, 219, 518-529.	7.3	130
51	Response of chickpea genotypes to low temperature stress during reproductive development. Field Crops Research, 2004, 90, 323-334.	5.1	127
52	Multi-site assessment of the effects of plastic-film mulch on the soil organic carbon balance in semiarid areas of China. Agricultural and Forest Meteorology, 2016, 228-229, 42-51.	4.8	126
53	Antimony contamination and its risk management in complex environmental settings: A review. Environment International, 2022, 158, 106908.	10.0	125
54	ABA-Mediated Stomatal Response in Regulating Water Use during the Development of Terminal Drought in Wheat. Frontiers in Plant Science, 2017, 8, 1251.	3.6	124

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55	Water-Saving Innovations in Chinese Agriculture. Advances in Agronomy, 2014, , 149-201.	5.2	120
56	Five decades of selection for yield reduced root length density and increased nitrogen uptake per unit root length in Australian wheat varieties. Plant and Soil, 2017, 413, 181-192.	3.7	118
57	Multi-site assessment of the effects of plastic-film mulch on dryland maize productivity in semiarid areas in China. Agricultural and Forest Meteorology, 2016, 220, 160-169.	4.8	117
58	Maize yield and water balance is affected by nitrogen application in a film-mulching ridgeâ€“furrow system in a semiarid region of China. European Journal of Agronomy, 2014, 52, 103-111.	4.1	116
59	Influence of rice straw biochar on growth, antioxidant capacity and copper uptake in ramie (Boehmeria nivea L.) grown as forage in aged copper-contaminated soil. Plant Physiology and Biochemistry, 2019, 138, 121-129.	5.8	114
60	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature-induced oxidative stress in Brassica juncea. Scientific Reports, 2018, 8, 8735.	3.3	113
61	Cropping systems in agriculture and their impact on soil health-A review. Global Ecology and Conservation, 2020, 23, e01118.	2.1	113
62	Effect of organic manure and fertilizer on soil water and crop yields in newly-built terraces with loess soils in a semi-arid environment. Agricultural Water Management, 2013, 117, 123-132.	5.6	111
63	Investigating Drought Tolerance in Chickpea Using Genome-Wide Association Mapping and Genomic Selection Based on Whole-Genome Resequencing Data. Frontiers in Plant Science, 2018, 9, 190.	3.6	111
64	Management options for minimizing the damage by ascochyta blight (Ascochyta rabiei) in chickpea (Cicer arietinum L.). Field Crops Research, 2006, 97, 121-134.	5.1	110
65	Variation in morphological and physiological parameters in herbaceous perennial legumes in response to phosphorus supply. Plant and Soil, 2010, 331, 241-255.	3.7	110
66	Water relations, gas exchange and growth of cool-season grain legumes in a Mediterranean-type environment. European Journal of Agronomy, 1998, 9, 295-303.	4.1	108
67	Genotype by environment studies demonstrate the critical role of phenology in adaptation of chickpea (Cicer arietinum L.) to high and low yielding environments of India. Field Crops Research, 2006, 98, 230-244.	5.1	107
68	Developing Climate-Resilient Chickpea Involving Physiological and Molecular Approaches With a Focus on Temperature and Drought Stresses. Frontiers in Plant Science, 2019, 10, 1759.	3.6	107
69	Food crops face rising temperatures: An overview of responses, adaptive mechanisms, and approaches to improve heat tolerance. Cogent Food and Agriculture, 2016, 2, .	1.4	106
70	A chickpea genetic variation map based on the sequencing of 3,366 genomes. Nature, 2021, 599, 622-627.	27.8	106
71	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbateâ€“glutathione cycle and secondary metabolites. Scientific Reports, 2018, 8, 13515.	3.3	105
72	Salicylic acid enhances nickel stress tolerance by up-regulating antioxidant defense and glyoxalase systems in mustard plants. Ecotoxicology and Environmental Safety, 2019, 180, 575-587.	6.0	105

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73	Genotype by environment studies across Australia reveal the importance of phenology for chickpea (Cicer arietinum L.) improvement. Australian Journal of Agricultural Research, 2004, 55, 1071.	1.5	105
74	Adaptation of faba bean (Vicia faba L.) to dryland Mediterranean-type environments I. Seed yield and yield components. Field Crops Research, 1997, 52, 17-28.	5.1	104
75	Contribution of Stem Dry Matter to Grain Yield in Wheat Cultivars. Functional Plant Biology, 1991, 18, 53.	2.1	102
76	Pulse production in Australia past, present and future. Australian Journal of Experimental Agriculture, 1997, 37, 103.	1.0	101
77	Identification of High-Temperature Tolerant Lentil (Lens culinaris Medik.) Genotypes through Leaf and Pollen Traits. Frontiers in Plant Science, 2017, 8, 744.	3.6	101
78	Grain legume species in low rainfall mediterranean-type environments I. Phenology and seed yield. Field Crops Research, 1997, 54, 173-187.	5.1	100
79	Long non-coding RNAs: emerging players regulating plant abiotic stress response and adaptation. BMC Plant Biology, 2020, 20, 466.	3.6	100
80	Interactive effects of salinity and nitrogen forms on plant growth, photosynthesis and osmotic adjustment in maize. Plant Physiology and Biochemistry, 2019, 139, 171-178.	5.8	99
81	Natureâ€™s pulse power: legumes, food security and climate change. Journal of Experimental Botany, 2017, 68, 1815-1818.	4.8	97
82	Wheat yield improvements in China: Past trends and future directions. Field Crops Research, 2015, 177, 117-124.	5.1	96
83	Unwrapping the rhizosheath. Plant and Soil, 2017, 418, 129-139.	3.7	94
84	Effect of Cold Stress on Photosynthetic Traits, Carbohydrates, Morphology, and Anatomy in Nine Cultivars of Stevia rebaudiana. Frontiers in Plant Science, 2018, 9, 1430.	3.6	94
85	Utilisation of wild Cicer in chickpea improvement â€" progress, constraints, and prospects. Australian Journal of Agricultural Research, 2003, 54, 429.	1.5	94
86	Physiological responses to drought stress in wild relatives of wheat: implications for wheat improvement. Acta Physiologiae Plantarum, 2017, 39, 1.	2.1	93
87	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.	5.1	93
88	GABA (Î³-aminobutyric acid), as a thermo-protectant, to improve the reproductive function of heat-stressed mungbean plants. Scientific Reports, 2019, 9, 7788.	3.3	93
89	Effect of water stress during floral initiation, flowering and podding on the growth and yield of faba bean (Vicia faba L.). European Journal of Agronomy, 1999, 11, 1-11.	4.1	92
90	Salt sensitivity in chickpea: Growth, photosynthesis, seed yield components and tissue ion regulation in contrasting genotypes. Journal of Plant Physiology, 2015, 182, 1-12.	3.5	92

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91	Grain growth and development of old and modern Australian wheats. Field Crops Research, 1989, 21, 131-146.	5.1	90
92	Mapping a major gene for growth habit and QTLs for ascochyta blight resistance and flowering time in a population between chickpea and Cicer reticulatum. Euphytica, 2010, 173, 307-319.	1.2	90
93	Assessment of ICCV 2ÂÃ—ÂJG 62 chickpea progenies shows sensitivity of reproduction to salt stress and reveals QTL for seed yield and yield components. Molecular Breeding, 2012, 30, 9-21.	2.1	90
94	Can elevated CO2 combined with high temperature ameliorate the effect of terminal drought in wheat?. Functional Plant Biology, 2013, 40, 160.	2.1	90
95	Quinolizidine Alkaloid Biosynthesis in Lupins and Prospects for Grain Quality Improvement. Frontiers in Plant Science, 2017, 8, 87.	3.6	89
96	Drought and heat stress-related proteins: an update about their functional relevance in imparting stress tolerance in agricultural crops. Theoretical and Applied Genetics, 2019, 132, 1607-1638.	3.6	89
97	Metabolomics and Molecular Approaches Reveal Drought Stress Tolerance in Plants. International Journal of Molecular Sciences, 2021, 22, 9108.	4.1	89
98	Salinity tolerance and ion accumulation in chickpea (Cicer arietinum L.) subjected to salt stress. Plant and Soil, 2013, 365, 347-361.	3.7	88
99	Accelerating genetic gains in legumes for the development of prosperous smallholder agriculture: integrating genomics, phenotyping, systems modelling and agronomy. Journal of Experimental Botany, 2018, 69, 3293-3312.	4.8	87
100	Genotype by environment interactions of Indian mustard (Brassica juncea L.) and canola (B. napus L.) in Mediterranean-type environments. European Journal of Agronomy, 2006, 25, 1-12.	4.1	86
101	Variation in seedling growth of 11 perennial legumes in response to phosphorus supply. Plant and Soil, 2010, 328, 133-143.	3.7	86
102	Salt sensitivity of the vegetative and reproductive stages in chickpea (Cicer arietinum L.): Podding is a particularly sensitive stage. Environmental and Experimental Botany, 2011, 71, 260-268.	4.2	86
103	Influence of drought and heat stress, applied independently or in combination during seed development, on qualitative and quantitative aspects of seeds of lentil (<scp>Lens) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 26 2019, 42, 198-211.	5.7	86
104	Climate change in south-west Australia and north-west China: challenges and opportunities for crop production. Crop and Pasture Science, 2011, 62, 445.	1.5	85
105	Ridge-furrow mulching with black plastic film improves maize yield more than white plastic film in dry areas with adequate accumulated temperature. Agricultural and Forest Meteorology, 2018, 262, 206-214.	4.8	85
106	Soil organic carbon, total nitrogen, available nutrients, and yield under different straw returning methods. Soil and Tillage Research, 2021, 214, 105171.	5.6	85
107	A comparison of seed yields of winter grain legumes in Western Australia. Australian Journal of Experimental Agriculture, 1993, 33, 915.	1.0	84
108	Trigenomic Bridges forBrassicaImprovement. Critical Reviews in Plant Sciences, 2011, 30, 524-547.	5.7	83

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109	Physiological and agronomic approaches for improving water-use efficiency in crop plants. Agricultural Water Management, 2019, 219, 95-108.	5.6	83
110	Integrated farming with intercropping increases food production while reducing environmental footprint. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	83
111	Integrating genomics for chickpea improvement: achievements and opportunities. Theoretical and Applied Genetics, 2020, 133, 1703-1720.	3.6	82
112	Fast-forward breeding for a food-secure world. Trends in Genetics, 2021, 37, 1124-1136.	6.7	82
113	Chickpea (Cicer arietinum L.), a potential grain legume for South-Western Australia: Seasonal growth and yield. Australian Journal of Agricultural Research, 1986, 37, 245.	1.5	82
114	Heat Stress at Reproductive Stage Disrupts Leaf Carbohydrate Metabolism, Impairs Reproductive Function, and Severely Reduces Seed Yield in Lentil. Journal of Crop Improvement, 2016, 30, 118-151.	1.7	79
115	Changes in Rice Grain Quality of Indica and Japonica Type Varieties Released in China from 2000 to 2014. Frontiers in Plant Science, 2017, 8, 1863.	3.6	79
116	Grazing exclusionâ€"An effective approach for naturally restoring degraded grasslands in Northern China. Land Degradation and Development, 2018, 29, 4439-4456.	3.9	79
117	Root architecture alteration of narrow-leafed lupin and wheat in response to soil compaction. Field Crops Research, 2014, 165, 61-70.	5.1	77
118	Beneficial elements for agricultural crops and their functional relevance in defence against stresses. Archives of Agronomy and Soil Science, 2016, 62, 905-920.	2.6	77
119	Seed priming improves chilling tolerance in chickpea by modulating germination metabolism, trehalose accumulation and carbon assimilation. Plant Physiology and Biochemistry, 2017, 111, 274-283.	5.8	77
120	Riceâ€"wheat cropping systems in South Asia: issues, options and opportunities. Crop and Pasture Science, 2019, 70, 395.	1.5	77
121	Improving/maintaining water-use efficiency and yield of wheat by deficit irrigation: A global meta-analysis. Agricultural Water Management, 2020, 228, 105906.	5.6	77
122	Albinism in Plants: A Major Bottleneck in Wide Hybridization, Androgenesis and Doubled Haploid Culture. Critical Reviews in Plant Sciences, 2009, 28, 393-409.	5.7	76
123	Impact of drought on growth, photosynthesis, osmotic adjustment, and cell wall elasticity in Damask rose. Plant Physiology and Biochemistry, 2020, 150, 133-139.	5.8	76
124	Regulation of photosynthesis under salt stress and associated tolerance mechanisms. Plant Physiology and Biochemistry, 2022, 178, 55-69.	5.8	76
125	Growth responses of cool-season grain legumes to transient waterlogging. Australian Journal of Agricultural Research, 2007, 58, 406.	1.5	74
126	Development of a novel semi-hydroponic phenotyping system for studying root architecture. Functional Plant Biology, 2011, 38, 355.	2.1	73

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127	Title is missing!. Euphytica, 1999, 110, 45-60.	1.2	72
128	Seed growth of desi and kabuli chickpea (Cicer arietinum L.) in a short-season Mediterranean-type environment. Australian Journal of Experimental Agriculture, 1999, 39, 181.	1.0	71
129	Addressing the yield gap in rainfed crops: a review. Agronomy for Sustainable Development, 2016, 36, 1.	5.3	70
130	Heat stress in grain legumes during reproductive and grain-filling phases. Crop and Pasture Science, 2017, 68, 985.	1.5	70
131	Alfalfa forage yield, soil water and P availability in response to plastic film mulch and P fertilization in a semiarid environment. Field Crops Research, 2018, 215, 94-103.	5.1	70
132	Heat stress effects on the reproductive physiology and yield of wheat. Journal of Agronomy and Crop Science, 2022, 208, 1-17.	3.5	70
133	Cooking quality of faba bean after storage at high temperature and the role of lignins and other phenolics in bean hardening. LWT - Food Science and Technology, 2008, 41, 1260-1267.	5.2	69
134	Chickpea evolution has selected for contrasting phenological mechanisms among different habitats. Euphytica, 2011, 180, 1-15.	1.2	69
135	Quantitative Trait Loci for Thermal Time to Flowering and Photoperiod Responsiveness Discovered in Summer Annual-Type Brassica napus L. PLoS ONE, 2014, 9, e102611.	2.5	69
136	Salt sensitivity in chickpea (<scp>C</scp>icer arietinumâ€¦<scp>L</scp>.): ions in reproductive tissues and yield components in contrasting genotypes. Plant, Cell and Environment, 2015, 38, 1565-1577.	5.7	69
137	Allelic Variations of a Light Harvesting Chlorophyll A/B-Binding Protein Gene (Lhcb1) Associated with Agronomic Traits in Barley. PLoS ONE, 2012, 7, e37573.	2.5	69
138	<scp>STABILITYSOFT</scp>: A new online program to calculate parametric and nonâ€parametric stability statistics for crop traits. Applications in Plant Sciences, 2019, 7, e01211.	2.1	68
139	Integrating different stability models to investigate genotypeâ€‰Ã—â€‰environment interactions and identify stable and high-yielding barley genotypes. Euphytica, 2019, 215, 1.	1.2	68
140	Pollen selection for chilling tolerance at hybridisation leads to improved chickpea cultivars. Euphytica, 2004, 139, 65-74.	1.2	67
141	Two key genomic regions harbour QTLs for salinity tolerance in ICCV 2â€‰Ã—â€‰JG 11 derived chickpea (Cicer) Tj ETQq1 1 0.7843	3.6	67
142	Response of chickpea (Cicer arietinumL.) to terminal drought: leaf stomatal conductance, pod abscisic acid concentration, and seed set. Journal of Experimental Botany, 2017, 68, erw153.	4.8	67
143	Potential for increasing early vigour and total biomass in spring wheat. II. Characteristics associated with early vigour. Australian Journal of Agricultural Research, 1992, 43, 541.	1.5	66
144	Extraction and identification methods of microplastics and nanoplastics in agricultural soil: A review. Journal of Environmental Management, 2021, 294, 112997.	7.8	66

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145	Abiotic stresses.. , 2007, , 474-496.		66
146	Toward Doubled Haploid Production in the Fabaceae: Progress, Constraints, and Opportunities. Critical Reviews in Plant Sciences, 2006, 25, 139-157.	5.7	65
147	Both Male and Female Malfunction Contributes to Yield Reduction under Water Stress during Meiosis in Bread Wheat. Frontiers in Plant Science, 2016, 7, 2071.	3.6	65
148	Soil microbial community and network changes after long-term use of plastic mulch and nitrogen fertilization on semiarid farmland. Geoderma, 2021, 396, 115086.	5.1	65
149	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. Environmental Pollution, 2022, 293, 118564.	7.5	63
150	Effect of canopy structure on efficiency of radiation interception and use in spring wheat cultivars during the pre-anthesis period in a mediterranean-type environment. Field Crops Research, 1993, 35, 113-122.	5.1	62
151	A water deficit during pod development in lentils reduces flower and pod numbers but not seed size. Australian Journal of Agricultural Research, 2006, 57, 427.	1.5	62
152	Genotypic Variation in Yield, Yield Components, Root Morphology and Architecture, in Soybean in Relation to Water and Phosphorus Supply. Frontiers in Plant Science, 2017, 8, 1499.	3.6	62
153	Neglected and Underutilized Crop Species: The Key to Improving Dietary Diversity and Fighting Hunger and Malnutrition in Asia and the Pacific. Frontiers in Nutrition, 2020, 7, 593711.	3.7	62
154	Growth, yield and neurotoxin (ODAP) concentration of three Lathyrus species in mediterranean-type environments of Western Australia. Australian Journal of Experimental Agriculture, 1996, 36, 209.	1.0	61
155	Effects of individual and combined heat and drought stress during seed filling on the oxidative metabolism and yield of chickpea (Cicer arietinum) genotypes differing in heat and drought tolerance. Crop and Pasture Science, 2017, 68, 823.	1.5	61
156	Boron nutrition of rice in different production systems. A review. Agronomy for Sustainable Development, 2018, 38, 1.	5.3	61
157	Grain legume species in low rainfall Mediterranean-type environments II. Canopy development, radiation interception, and dry-matter production. Field Crops Research, 1997, 54, 189-199.	5.1	60
158	Effect of no-tillage on soil bacterial and fungal community diversity: A meta-analysis. Soil and Tillage Research, 2020, 204, 104721.	5.6	60
159	Grain development in wheat under combined heat and drought stress: Plant responses and management. Environmental and Experimental Botany, 2021, 188, 104517.	4.2	60
160	Film fully-mulched ridge-furrow cropping affects soil biochemical properties and maize nutrient uptake in a rainfed semi-arid environment. Soil Science and Plant Nutrition, 2014, 60, 486-498.	1.9	59
161	Phosphorus acquisition and utilisation in crop legumes under global change. Current Opinion in Plant Biology, 2018, 45, 248-254.	7.1	58
162	From mine to mind and mobiles â€“ Lithium contamination and its risk management. Environmental Pollution, 2021, 290, 118067.	7.5	58

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163	Characterising root trait variability in chickpea (Cicer arietinum L.) germplasm. Journal of Experimental Botany, 2017, 68, erw368.	4.8	57
164	Phenotypic variability in bread wheat root systems at the early vegetative stage. BMC Plant Biology, 2020, 20, 185.	3.6	56
165	Water Deficit during the Reproductive Period of Grass Pea (Lathyrus sativus L.) Reduced Grain Yield but Maintained Seed Size. Journal of Agronomy and Crop Science, 2012, 198, 430-441.	3.5	55
166	Comparing responses of grain legumes, wheat and canola to applications of superphosphate. Nutrient Cycling in Agroecosystems, 1999, 53, 157-175.	2.2	54
167	Vegetative and reproductive growth of salt-stressed chickpea are carbon-limited: sucrose infusion at the reproductive stage improves salt tolerance. Journal of Experimental Botany, 2017, 68, 2001-2011.	4.8	54
168	Soil disturbance and water stress interact to influence arbuscular mycorrhizal fungi, rhizosphere bacteria and potential for N and C cycling in an agricultural soil. Biology and Fertility of Soils, 2019, 55, 53-66.	4.3	54
169	Identification and Characterization of Contrasting Genotypes/Cultivars for Developing Heat Tolerance in Agricultural Crops: Current Status and Prospects. Frontiers in Plant Science, 2020, 11, 587264.	3.6	54
170	Remobilisation of carbon and nitrogen supports seed filling in chickpea subjected to water deficit. Australian Journal of Agricultural Research, 2000, 51, 855.	1.5	53
171	Genotype by environment interactions of Indian mustard (Brassica juncea L.) and canola (Brassica) Tj ETQq1 1 0.784314 rgBT /Overlo	4.1	53
172	Application of compost and clay under water-stressed conditions influences functional diversity of rhizosphere bacteria. Biology and Fertility of Soils, 2018, 54, 55-70.	4.3	53
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