

Kadambot Siddique

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597
papers

19,427
citations

71
h-index

113
g-index

633
ext. papers

25,012
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
597	Heat Stress in Wheat during Reproductive and Grain-Filling Phases. <i>Critical Reviews in Plant Sciences</i> , 2011 , 30, 491-507	5.6	475
596	Polyamines: natural and engineered abiotic and biotic stress tolerance in plants. <i>Biotechnology Advances</i> , 2011 , 29, 300-11	17.8	389
595	Neglecting legumes has compromised human health and sustainable food production. <i>Nature Plants</i> , 2016 , 2, 16112	11.5	344
594	Ridge-Furrow Mulching Systems An Innovative Technique for Boosting Crop Productivity in Semiarid Rain-Fed Environments. <i>Advances in Agronomy</i> , 2013 , 429-476	7.7	321
593	Rice direct seeding: Experiences, challenges and opportunities. <i>Soil and Tillage Research</i> , 2011 , 111, 87-98.5	9.5	291
592	Drought Stress in Wheat during Flowering and Grain-filling Periods. <i>Critical Reviews in Plant Sciences</i> , 2014 , 33, 331-349	5.6	288
591	Salt stress in maize: effects, resistance mechanisms, and management. A review. <i>Agronomy for Sustainable Development</i> , 2015 , 35, 461-481	6.8	286
590	Root:shoot ratios of old and modern, tall and semi-dwarf wheats in a mediterranean environment. <i>Plant and Soil</i> , 1990 , 121, 89-98	4.2	260
589	Morphological and Physiological Traits Associated with Wheat Yield Increases in Mediterranean Environments. <i>Advances in Agronomy</i> , 1994 , 52, 229-276	7.7	258
588	Water use and water use efficiency of old and modern wheat cultivars in a Mediterranean-type environment. <i>Australian Journal of Agricultural Research</i> , 1990 , 41, 431		233
587	The role of allelopathy in agricultural pest management. <i>Pest Management Science</i> , 2011 , 67, 493-506	4.6	232
586	Biochar for crop production: potential benefits and risks. <i>Journal of Soils and Sediments</i> , 2017 , 17, 685-714	16.4	222
585	Regulated deficit irrigation for crop production under drought stress. A review. <i>Agronomy for Sustainable Development</i> , 2016 , 36, 1	6.8	212
584	Ear: Stem ratio in old and modern wheat varieties; relationship with improvement in number of grains per ear and yield. <i>Field Crops Research</i> , 1989 , 21, 59-78	5.5	200
583	Drought Stress in Grain Legumes during Reproduction and Grain Filling. <i>Journal of Agronomy and Crop Science</i> , 2017 , 203, 81-102	3.9	182
582	Drought or/and Heat-Stress Effects on Seed Filling in Food Crops: Impacts on Functional Biochemistry, Seed Yields, and Nutritional Quality. <i>Frontiers in Plant Science</i> , 2018 , 9, 1705	6.2	179
581	Corrigenda - Growth, development and light interception of old and modern wheat cultivars in a Mediterranean-type environment. <i>Australian Journal of Agricultural Research</i> , 1989 , 40, 473		174

580	A comprehensive resource of drought- and salinity- responsive ESTs for gene discovery and marker development in chickpea (<i>Cicer arietinum</i> L.). <i>BMC Genomics</i> , 2009 , 10, 523	4.5	165
579	Physiological responses of chickpea genotypes to terminal drought in a Mediterranean-type environment. <i>European Journal of Agronomy</i> , 1999 , 11, 279-291	5	161
578	Arsenic toxicity in plants: Cellular and molecular mechanisms of its transport and metabolism. <i>Environmental and Experimental Botany</i> , 2016 , 132, 42-52	5.9	158
577	Water use and water use efficiency of cool season grain legumes in low rainfall Mediterranean-type environments. <i>European Journal of Agronomy</i> , 2001 , 15, 267-280	5	158
576	Adaptation and seed yield of cool season grain legumes in Mediterranean environments of south-western Australia. <i>Australian Journal of Agricultural Research</i> , 1999 , 50, 375		158
575	Flower numbers, pod production, pollen viability, and pistil function are reduced and flower and pod abortion increased in chickpea (<i>Cicer arietinum</i> L.) under terminal drought. <i>Journal of Experimental Botany</i> , 2010 , 61, 335-45	7	150
574	Salt sensitivity in chickpea. <i>Plant, Cell and Environment</i> , 2010 , 33, 490-509	8.4	146
573	Individual and combined effects of transient drought and heat stress on carbon assimilation and seed filling in chickpea. <i>Functional Plant Biology</i> , 2014 , 41, 1148-1167	2.7	141
572	Crop yield and weed management in rainfed conservation agriculture. <i>Soil and Tillage Research</i> , 2011 , 117, 172-183	6.5	141
571	Advances in Drought Resistance of Rice. <i>Critical Reviews in Plant Sciences</i> , 2009 , 28, 199-217	5.6	138
570	Micronutrient application through seed treatments: a review. <i>Journal of Soil Science and Plant Nutrition</i> , 2012 , 12, 125-142	3.2	137
569	Ascochyta blight of chickpea (<i>Cicer arietinum</i> L.): a review of biology, pathogenicity, and disease management. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 317		136
568	Drought Stress in Plants: An Overview 2012 , 1-33		134
567	Innovations in agronomy for food legumes. A review. <i>Agronomy for Sustainable Development</i> , 2012 , 32, 45-64	6.8	129
566	Heat-stress-induced reproductive failures in chickpea (<i>Cicer arietinum</i>) are associated with impaired sucrose metabolism in leaves and anthers. <i>Functional Plant Biology</i> , 2013 , 40, 1334-1349	2.7	129
565	A review of the potential of <i>Lathyrus sativus</i> L. and <i>L. cicera</i> L. grain for use as animal feed. <i>Animal Feed Science and Technology</i> , 2000 , 87, 1-27	3	125
564	Faba bean breeding for drought-affected environments: A physiological and agronomic perspective. <i>Field Crops Research</i> , 2010 , 115, 279-286	5.5	122
563	Resequencing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domestication and agronomic traits. <i>Nature Genetics</i> , 2019 , 51, 857-864	36.3	116

562	Large variation in salinity tolerance in chickpea is explained by differences in sensitivity at the reproductive stage. <i>Field Crops Research</i> , 2007 , 104, 123-129	5.5	116
561	Effects of Drought, Heat and Their Interaction on the Growth, Yield and Photosynthetic Function of Lentil (Medikus) Genotypes Varying in Heat and Drought Sensitivity. <i>Frontiers in Plant Science</i> , 2017 , 8, 1776	6.2	114
560	Chilling tolerance in maize: agronomic and physiological approaches. <i>Crop and Pasture Science</i> , 2009 , 60, 501	2.2	112
559	Chickpea molecular breeding: New tools and concepts. <i>Euphytica</i> , 2006 , 147, 81-103	2.1	111
558	Response of chickpea genotypes to low temperature stress during reproductive development. <i>Field Crops Research</i> , 2004 , 90, 323-334	5.5	110
557	Variation in pod production and abortion among chickpea cultivars under terminal drought. <i>European Journal of Agronomy</i> , 2006 , 24, 236-246	5	106
556	Moderate Drought Stress Affected Root Growth and Grain Yield in Old, Modern and Newly Released Cultivars of Winter Wheat. <i>Frontiers in Plant Science</i> , 2017 , 8, 672	6.2	104
555	Low-Temperature Stress: Implications for Chickpea (<i>Cicer arietinum</i> L.) Improvement. <i>Critical Reviews in Plant Sciences</i> , 2003 , 22, 185-219	5.6	102
554	Effects, tolerance mechanisms and management of salt stress in grain legumes. <i>Plant Physiology and Biochemistry</i> , 2017 , 118, 199-217	5.4	101
553	Water relations, gas exchange and growth of cool-season grain legumes in a Mediterranean-type environment. <i>European Journal of Agronomy</i> , 1998 , 9, 295-303	5	100
552	Sequencing of Cultivated Peanut, <i>Arachis hypogaea</i> , Yields Insights into Genome Evolution and Oil Improvement. <i>Molecular Plant</i> , 2019 , 12, 920-934	14.4	99
551	Zinc nutrition in wheat-based cropping systems. <i>Plant and Soil</i> , 2018 , 422, 283-315	4.2	97
550	Food Legumes and Rising Temperatures: Effects, Adaptive Functional Mechanisms Specific to Reproductive Growth Stage and Strategies to Improve Heat Tolerance. <i>Frontiers in Plant Science</i> , 2017 , 8, 1658	6.2	96
549	Variation in morphological and physiological parameters in herbaceous perennial legumes in response to phosphorus supply. <i>Plant and Soil</i> , 2010 , 331, 241-255	4.2	93
548	Maize yield and water balance is affected by nitrogen application in a film-mulching ridgefurrow system in a semiarid region of China. <i>European Journal of Agronomy</i> , 2014 , 52, 103-111	5	91
547	Multi-site assessment of the effects of plastic-film mulch on dryland maize productivity in semiarid areas in China. <i>Agricultural and Forest Meteorology</i> , 2016 , 220, 160-169	5.8	89
546	Genotype by environment studies demonstrate the critical role of phenology in adaptation of chickpea (<i>Cicer arietinum</i> L.) to high and low yielding environments of India. <i>Field Crops Research</i> , 2006 , 98, 230-244	5.5	88
545	Management options for minimizing the damage by ascochyta blight (<i>Ascochyta rabiei</i>) in chickpea (<i>Cicer arietinum</i> L.). <i>Field Crops Research</i> , 2006 , 97, 121-134	5.5	87

544	Multi-site assessment of the effects of plastic-film mulch on the soil organic carbon balance in semiarid areas of China. <i>Agricultural and Forest Meteorology</i> , 2016 , 228-229, 42-51	5.8	86
543	Adaptation of faba bean (<i>Vicia faba</i> L.) to dryland Mediterranean-type environments I. Seed yield and yield components. <i>Field Crops Research</i> , 1997 , 52, 17-28	5.5	85
542	Genotype by environment studies across Australia reveal the importance of phenology for chickpea (<i>Cicer arietinum</i> L.) improvement. <i>Australian Journal of Agricultural Research</i> , 2004 , 55, 1071		85
541	Utilisation of wild Cicer in chickpea improvement [Progress, constraints, and prospects. <i>Australian Journal of Agricultural Research</i> , 2003 , 54, 429		83
540	Water-Saving Innovations in Chinese Agriculture. <i>Advances in Agronomy</i> , 2014 , 149-201	7.7	80
539	Pulse production in Australia past, present and future. <i>Australian Journal of Experimental Agriculture</i> , 1997 , 37, 103		80
538	Grain legume species in low rainfall mediterranean-type environments I. Phenology and seed yield. <i>Field Crops Research</i> , 1997 , 54, 173-187	5.5	80
537	Grain growth and development of old and modern Australian wheats. <i>Field Crops Research</i> , 1989 , 21, 131-146	5.5	79
536	The carboxylate-releasing phosphorus-mobilizing strategy can be proxied by foliar manganese concentration in a large set of chickpea germplasm under low phosphorus supply. <i>New Phytologist</i> , 2018 , 219, 518-529	9.8	79
535	Five decades of selection for yield reduced root length density and increased nitrogen uptake per unit root length in Australian wheat varieties. <i>Plant and Soil</i> , 2017 , 413, 181-192	4.2	78
534	Variation in seedling growth of 11 perennial legumes in response to phosphorus supply. <i>Plant and Soil</i> , 2010 , 328, 133-143	4.2	78
533	Thermal stress impacts reproductive development and grain yield in rice. <i>Plant Physiology and Biochemistry</i> , 2017 , 115, 57-72	5.4	77
532	Effect of water stress during floral initiation, flowering and podding on the growth and yield of faba bean (<i>Vicia faba</i> L.). <i>European Journal of Agronomy</i> , 1999 , 11, 1-11	5	77
531	Assessment of ICCV 2 [JG 62 chickpea progenies shows sensitivity of reproduction to salt stress and reveals QTL for seed yield and yield components. <i>Molecular Breeding</i> , 2012 , 30, 9-21	3.4	76
530	Effect of organic manure and fertilizer on soil water and crop yields in newly-built terraces with loess soils in a semi-arid environment. <i>Agricultural Water Management</i> , 2013 , 117, 123-132	5.9	76
529	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature-induced oxidative stress in <i>Brassica juncea</i> . <i>Scientific Reports</i> , 2018 , 8, 8735	4.9	74
528	ABA-Mediated Stomatal Response in Regulating Water Use during the Development of Terminal Drought in Wheat. <i>Frontiers in Plant Science</i> , 2017 , 8, 1251	6.2	73
527	Chickpea (<i>Cicer arietinum</i> L.), a potential grain legume for South-Western Australia: Seasonal growth and yield. <i>Australian Journal of Agricultural Research</i> , 1986 , 37, 245		73

526	Genotype by environment interactions of Indian mustard (<i>Brassica juncea</i> L.) and canola (<i>B. napus</i> L.) in Mediterranean-type environments: 1. Crop growth and seed yield. <i>European Journal of Agronomy</i> , 2006 , 25, 1-12	5	71
525	Seed priming in field crops: potential benefits, adoption and challenges. <i>Crop and Pasture Science</i> , 2019 , 70, 731	2.2	70
524	Food crops face rising temperatures: An overview of responses, adaptive mechanisms, and approaches to improve heat tolerance. <i>Cogent Food and Agriculture</i> , 2016 , 2,	1.8	70
523	Climate change in south-west Australia and north-west China: challenges and opportunities for crop production. <i>Crop and Pasture Science</i> , 2011 , 62, 445	2.2	70
522	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbate-glutathione cycle and secondary metabolites. <i>Scientific Reports</i> , 2018 , 8, 13515	4.9	70
521	Investigating Drought Tolerance in Chickpea Using Genome-Wide Association Mapping and Genomic Selection Based on Whole-Genome Resequencing Data. <i>Frontiers in Plant Science</i> , 2018 , 9, 190	6.2	69
520	Influence of rice straw biochar on growth, antioxidant capacity and copper uptake in ramie (<i>Boehmeria nivea</i> L.) grown as forage in aged copper-contaminated soil. <i>Plant Physiology and Biochemistry</i> , 2019 , 138, 121-129	5.4	68
519	Salinity tolerance and ion accumulation in chickpea (<i>Cicer arietinum</i> L.) subjected to salt stress. <i>Plant and Soil</i> , 2013 , 365, 347-361	4.2	68
518	Can elevated CO ₂ combined with high temperature ameliorate the effect of terminal drought in wheat?. <i>Functional Plant Biology</i> , 2013 , 40, 160-171	2.7	68
517	Wheat yield improvements in China: Past trends and future directions. <i>Field Crops Research</i> , 2015 , 177, 117-124	5.5	67
516	Mapping a major gene for growth habit and QTLs for ascochyta blight resistance and flowering time in a population between chickpea and <i>Cicer reticulatum</i> . <i>Euphytica</i> , 2010 , 173, 307-319	2.1	67
515	A comparison of seed yields of winter grain legumes in Western Australia. <i>Australian Journal of Experimental Agriculture</i> , 1993 , 33, 915		67
514	Identification of High-Temperature Tolerant Lentil (Medik.) Genotypes through Leaf and Pollen Traits. <i>Frontiers in Plant Science</i> , 2017 , 8, 744	6.2	65
513	Albinism in Plants: A Major Bottleneck in Wide Hybridization, Androgenesis and Doubled Haploid Culture. <i>Critical Reviews in Plant Sciences</i> , 2009 , 28, 393-409	5.6	63
512	Contribution of Stem Dry Matter to Grain Yield in Wheat Cultivars. <i>Functional Plant Biology</i> , 1991 , 18, 53	2.7	63
511	Salt sensitivity of the vegetative and reproductive stages in chickpea (<i>Cicer arietinum</i> L.): Podding is a particularly sensitive stage. <i>Environmental and Experimental Botany</i> , 2011 , 71, 260-268	5.9	62
510	Chickpea evolution has selected for contrasting phenological mechanisms among different habitats. <i>Euphytica</i> , 2011 , 180, 1-15	2.1	62
509	Genotype-environment interaction for seed yield and ODAP concentration of <i>Lathyrus sativus</i> L. and <i>L. cicera</i> L. in Mediterranean-type environments. <i>Euphytica</i> , 1999 , 110, 45-60	2.1	62

508	Seed growth of desi and kabuli chickpea (<i>Cicer arietinum</i> L.) in a short-season Mediterranean-type environment. <i>Australian Journal of Experimental Agriculture</i> , 1999 , 39, 181		62
507	Salicylic acid enhances nickel stress tolerance by up-regulating antioxidant defense and glyoxalase systems in mustard plants. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 180, 575-587	7	61
506	Unwrapping the rhizosheath. <i>Plant and Soil</i> , 2017 , 418, 129-139	4.2	61
505	Application of zinc improves the productivity and biofortification of fine grain aromatic rice grown in dry seeded and puddled transplanted production systems. <i>Field Crops Research</i> , 2018 , 216, 53-62	5.5	61
504	Quinolizidine Alkaloid Biosynthesis in Lupins and Prospects for Grain Quality Improvement. <i>Frontiers in Plant Science</i> , 2017 , 8, 87	6.2	60
503	Trigenomic Bridges for Brassica Improvement. <i>Critical Reviews in Plant Sciences</i> , 2011 , 30, 524-547	5.6	60
502	Pollen selection for chilling tolerance at hybridisation leads to improved chickpea cultivars. <i>Euphytica</i> , 2004 , 139, 65-74	2.1	58
501	Accelerating genetic gains in legumes for the development of prosperous smallholder agriculture: integrating genomics, phenotyping, systems modelling and agronomy. <i>Journal of Experimental Botany</i> , 2018 , 69, 3293-3312	7	57
500	Toward Doubled Haploid Production in the Fabaceae: Progress, Constraints, and Opportunities. <i>Critical Reviews in Plant Sciences</i> , 2006 , 25, 139-157	5.6	57
499	Potential for increasing early vigour and total biomass in spring wheat. II. Characteristics associated with early vigour. <i>Australian Journal of Agricultural Research</i> , 1992 , 43, 541		57
498	Beneficial elements for agricultural crops and their functional relevance in defence against stresses. <i>Archives of Agronomy and Soil Science</i> , 2016 , 62, 905-920	2	56
497	Heat Stress at Reproductive Stage Disrupts Leaf Carbohydrate Metabolism, Impairs Reproductive Function, and Severely Reduces Seed Yield in Lentil. <i>Journal of Crop Improvement</i> , 2016 , 30, 118-151	1.4	56
496	Two key genomic regions harbour QTLs for salinity tolerance in ICCV 2 × G 11 derived chickpea (<i>Cicer arietinum</i> L.) recombinant inbred lines. <i>BMC Plant Biology</i> , 2015 , 15, 124	5.3	55
495	Growth responses of cool-season grain legumes to transient waterlogging. <i>Australian Journal of Agricultural Research</i> , 2007 , 58, 406		55
494	Physiological responses to drought stress in wild relatives of wheat: implications for wheat improvement. <i>Acta Physiologiae Plantarum</i> , 2017 , 39, 1	2.6	54
493	Seed priming improves chilling tolerance in chickpea by modulating germination metabolism, trehalose accumulation and carbon assimilation. <i>Plant Physiology and Biochemistry</i> , 2017 , 111, 274-283	5.4	54
492	Root architecture alteration of narrow-leaved lupin and wheat in response to soil compaction. <i>Field Crops Research</i> , 2014 , 165, 61-70	5.5	54
491	Salt sensitivity in chickpea: Growth, photosynthesis, seed yield components and tissue ion regulation in contrasting genotypes. <i>Journal of Plant Physiology</i> , 2015 , 182, 1-12	3.6	54

490	Development of a novel semi-hydroponic phenotyping system for studying root architecture. <i>Functional Plant Biology</i> , 2011 , 38, 355-363	2.7	54
489	Grain legume species in low rainfall Mediterranean-type environments II. Canopy development, radiation interception, and dry-matter production. <i>Field Crops Research</i> , 1997 , 54, 189-199	5.5	53
488	Influence of drought and heat stress, applied independently or in combination during seed development, on qualitative and quantitative aspects of seeds of lentil (<i>Lens culinaris</i> Medikus) genotypes, differing in drought sensitivity. <i>Plant, Cell and Environment</i> , 2019 , 42, 198-211	8.4	52
487	Addressing the yield gap in rainfed crops: a review. <i>Agronomy for Sustainable Development</i> , 2016 , 36, 1	6.8	51
486	Cooking quality of faba bean after storage at high temperature and the role of lignins and other phenolics in bean hardening. <i>LWT - Food Science and Technology</i> , 2008 , 41, 1260-1267	5.4	51
485	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. <i>Field Crops Research</i> , 1993 , 35, 113-122	5.5	51
484	Growth, yield and neurotoxin (ODAP) concentration of three <i>Lathyrus</i> species in mediterranean-type environments of Western Australia. <i>Australian Journal of Experimental Agriculture</i> , 1996 , 36, 209		50
483	Ridge-furrow mulching with black plastic film improves maize yield more than white plastic film in dry areas with adequate accumulated temperature. <i>Agricultural and Forest Meteorology</i> , 2018 , 262, 206-214	5.8	48
482	GABA (γ-aminobutyric acid), as a thermo-protectant, to improve the reproductive function of heat-stressed mungbean plants. <i>Scientific Reports</i> , 2019 , 9, 7788	4.9	47
481	Abiotic stresses.474-496		47
480	Response of chickpea (<i>Cicer arietinum</i> L.) to terminal drought: leaf stomatal conductance, pod abscisic acid concentration, and seed set. <i>Journal of Experimental Botany</i> , 2017 , 68, 1973-1985	7	47
479	Interactive effects of salinity and nitrogen forms on plant growth, photosynthesis and osmotic adjustment in maize. <i>Plant Physiology and Biochemistry</i> , 2019 , 139, 171-178	5.4	46
478	Allelic variations of a light harvesting chlorophyll a/b-binding protein gene (Lhcb1) associated with agronomic traits in barley. <i>PLoS ONE</i> , 2012 , 7, e37573	3.7	46
477	Effect of Cold Stress on Photosynthetic Traits, Carbohydrates, Morphology, and Anatomy in Nine Cultivars of. <i>Frontiers in Plant Science</i> , 2018 , 9, 1430	6.2	46
476	Drought and heat stress-related proteins: an update about their functional relevance in imparting stress tolerance in agricultural crops. <i>Theoretical and Applied Genetics</i> , 2019 , 132, 1607-1638	6	45
475	Film fully-mulched ridge-furrow cropping affects soil biochemical properties and maize nutrient uptake in a rainfed semi-arid environment. <i>Soil Science and Plant Nutrition</i> , 2014 , 60, 486-498	1.6	45
474	A PCR-based molecular marker applicable for marker-assisted selection for anthracnose disease resistance in lupin breeding. <i>Cellular and Molecular Biology Letters</i> , 2005 , 10, 123-34	8.1	45
473	Rice-wheat cropping systems in South Asia: issues, options and opportunities. <i>Crop and Pasture Science</i> , 2019 , 70, 395	2.2	44

472	Boron nutrition of rice in different production systems. A review. <i>Agronomy for Sustainable Development</i> , 2018 , 38, 1	6.8	44
471	Salt sensitivity in chickpea (<i>Cicer arietinum</i> L.): ions in reproductive tissues and yield components in contrasting genotypes. <i>Plant, Cell and Environment</i> , 2015 , 38, 1565-77	8.4	44
470	Phenotypic variability and modelling of root structure of wild <i>Lupinus angustifolius</i> genotypes. <i>Plant and Soil</i> , 2011 , 348, 345-364	4.2	44
469	Geographical patterns of genetic variation in the world collections of wild annual <i>Cicer</i> characterized by amplified fragment length polymorphisms. <i>Theoretical and Applied Genetics</i> , 2005 , 110, 381-91	6	44
468	Remobilisation of carbon and nitrogen supports seed filling in chickpea subjected to water deficit. <i>Australian Journal of Agricultural Research</i> , 2000 , 51, 855		44
467	Cropping systems in agriculture and their impact on soil health-A review. <i>Global Ecology and Conservation</i> , 2020 , 23, e01118	2.8	43
466	Comparing responses of grain legumes, wheat and canola to applications of superphosphate. <i>Nutrient Cycling in Agroecosystems</i> , 1999 , 53, 157-175	3.3	43
465	Heat stress in grain legumes during reproductive and grain-filling phases. <i>Crop and Pasture Science</i> , 2017 , 68, 985	2.2	42
464	A water deficit during pod development in lentils reduces flower and pod numbers but not seed size. <i>Australian Journal of Agricultural Research</i> , 2006 , 57, 427		42
463	Effects of transient subsurface waterlogging on root growth, plant biomass and yield of chickpea. <i>Agricultural Water Management</i> , 2010 , 97, 1469-1476	5.9	41
462	Genotype by environment interactions of Indian mustard (<i>Brassica juncea</i> L.) and canola (<i>Brassica napus</i> L.) in Mediterranean-type environments. <i>European Journal of Agronomy</i> , 2006 , 25, 13-21	5	41
461	Grazing exclusion An effective approach for naturally restoring degraded grasslands in Northern China. <i>Land Degradation and Development</i> , 2018 , 29, 4439-4456	4.4	41
460	<i>Didymella pinodes</i> and its management in field pea: Challenges and opportunities. <i>Field Crops Research</i> , 2013 , 148, 61-77	5.5	39
459	Productivity and water use of alfalfa and subsequent crops in the semiarid Loess Plateau with different stand ages of alfalfa and crop sequences. <i>Field Crops Research</i> , 2009 , 114, 58-65	5.5	39
458	Embryo rescue and plant regeneration in vitro of selfed chickpea (<i>Cicer arietinum</i> L.) and its wild annual relatives. <i>Plant Cell, Tissue and Organ Culture</i> , 2006 , 85, 197-204	2.7	39
457	Characterising root trait variability in chickpea (<i>Cicer arietinum</i> L.) germplasm. <i>Journal of Experimental Botany</i> , 2017 , 68, 1987-1999	7	39
456	Genotypic Variation in Yield, Yield Components, Root Morphology and Architecture, in Soybean in Relation to Water and Phosphorus Supply. <i>Frontiers in Plant Science</i> , 2017 , 8, 1499	6.2	38
455	Improving/maintaining water-use efficiency and yield of wheat by deficit irrigation: A global meta-analysis. <i>Agricultural Water Management</i> , 2020 , 228, 105906	5.9	38

454	Assessing variability in root traits of wild <i>Lupinus angustifolius</i> germplasm: basis for modelling root system structure. <i>Plant and Soil</i> , 2012 , 354, 141-155	4.2	37
453	Long non-coding RNAs: emerging players regulating plant abiotic stress response and adaptation. <i>BMC Plant Biology</i> , 2020 , 20, 466	5.3	37
452	Developing Climate-Resilient Chickpea Involving Physiological and Molecular Approaches With a Focus on Temperature and Drought Stresses. <i>Frontiers in Plant Science</i> , 2019 , 10, 1759	6.2	36
451	Vegetative and reproductive growth of salt-stressed chickpea are carbon-limited: sucrose infusion at the reproductive stage improves salt tolerance. <i>Journal of Experimental Botany</i> , 2017 , 68, 2001-2011	7	35
450	STABILITYSOFT: A new online program to calculate parametric and non-parametric stability statistics for crop traits. <i>Applications in Plant Sciences</i> , 2019 , 7, e01211	2.3	35
449	Impact of drought on growth, photosynthesis, osmotic adjustment, and cell wall elasticity in Damask rose. <i>Plant Physiology and Biochemistry</i> , 2020 , 150, 133-139	5.4	35
448	Integrating genomics for chickpea improvement: achievements and opportunities. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 1703-1720	6	35
447	Quantitative trait loci for thermal time to flowering and photoperiod responsiveness discovered in summer annual-type <i>Brassica napus</i> L. <i>PLoS ONE</i> , 2014 , 9, e102611	3.7	35
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298	Combined ditch buried straw return technology in a ridgefurrow plastic film mulch system: Implications for crop yield and soil organic matter dynamics. <i>Soil and Tillage Research</i> , 2020 , 199, 104596	6.5	13
297	Influence of straw incorporation on soil water utilization and summer maize productivity: A five-year field study on the Loess Plateau of China. <i>Agricultural Water Management</i> , 2020 , 233, 106106	5.9	13
296	Supplementary Calcium Restores Peanut () Growth and Photosynthetic Capacity Under Low Nocturnal Temperature. <i>Frontiers in Plant Science</i> , 2019 , 10, 1637	6.2	13
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293	Using Biotechnology-Led Approaches to Uplift Cereal and Food Legume Yields in Dryland Environments. <i>Frontiers in Plant Science</i> , 2018 , 9, 1249	6.2	13

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154	Leaf type is not associated with ascochyta blight disease in chickpea (<i>Cicer arietinum</i> L.). <i>Euphytica</i> , 2008 , 162, 281-289	2.1	4
153	Reduced groundwater use and increased grain production by optimized irrigation scheduling in winter wheat-summer maize double cropping system: A 16-year field study in North China Plain. <i>Field Crops Research</i> , 2022 , 275, 108364	5.5	4
152	Plant-Growth-Promoting Rhizobacteria Emerging as an Effective Bioinoculant to Improve the Growth, Production, and Stress Tolerance of Vegetable Crops. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
151	Arbuscular mycorrhizal symbioses alleviating salt stress in maize is associated with a decline in root-to-leaf gradient of Na/K ratio. <i>BMC Plant Biology</i> , 2021 , 21, 457	5.3	4
150	Agronomic, physiological and molecular characterization of rice mutants revealed key role of ROS and catalase in high temperature stress tolerance		4
149	Cold priming the chickpea seeds imparts reproductive cold tolerance by reprogramming the turnover of carbohydrates, osmo-protectants and redox components in leaves. <i>Scientia Horticulturae</i> , 2020 , 261, 108929	4.1	4

148	Long-term winter wheat cropping influenced soil organic carbon pools in different aggregate fractions of Chernozem soil. <i>Archives of Agronomy and Soil Science</i> , 2020 , 66, 2055-2066	2	4
147	Arbuscular Mycorrhizas Regulate Photosynthetic Capacity and Antioxidant Defense Systems to Mediate Salt Tolerance in Maize. <i>Plants</i> , 2020 , 9,	4.5	4
146	Role of Phytohormones in Regulating Heat Stress Acclimation in Agricultural Crops. <i>Journal of Plant Growth Regulation</i> ,1	4.7	4
145	Photosynthesis, Chlorophyll Fluorescence, and Yield of Peanut in Response to Biochar Application. <i>Frontiers in Plant Science</i> , 2021 , 12, 650432	6.2	4
144	Novel Genes and Genetic Loci Associated With Root Morphological Traits, Phosphorus-Acquisition Efficiency and Phosphorus-Use Efficiency in Chickpea. <i>Frontiers in Plant Science</i> , 2021 , 12, 636973	6.2	4
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142	Rubber-leguminous shrub systems stimulate soil N ₂ O but reduce CO ₂ and CH ₄ emissions. <i>Forest Ecology and Management</i> , 2021 , 480, 118665	3.9	4
141	Measurements and modeling of hydrological responses to summer pruning in dryland apple orchards. <i>Journal of Hydrology</i> , 2021 , 594, 125651	6	4
140	Watershed Drought and Ecosystem Services: Spatiotemporal Characteristics and Gray Relational Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2021 , 10, 43	2.9	4
139	Sustainability of Traditional Rice Cultivation in Kerala, India: A Socio-Economic Analysis. <i>Sustainability</i> , 2021 , 13, 980	3.6	4
138	Tree species as a biomonitor of metal pollution in arid Mediterranean environments: case for arid southern Tunisia. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 28598-28605	5.1	4
137	Growth and Antioxidant Responses in Iron-Biofortified Lentil under Cadmium Stress. <i>Toxics</i> , 2021 , 9,	4.7	4
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131	From mine to mind and mobiles - Lithium contamination and its risk management. <i>Environmental Pollution</i> , 2021 , 290, 118067	9.3	4

130	Advances in understanding plant root uptake of phosphorus. <i>Burleigh Dodds Series in Agricultural Science</i> , 2021 , 321-372	2	4
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98	Below-ground physiological processes enhancing phosphorus acquisition in plants. <i>Plant Physiology Reports</i> , 2021 , 26, 600	1.4	2
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83	Method for Characterization of Root Traits in Chickpea Germplasm for Legume Genomics and Breeding. <i>Methods in Molecular Biology</i> , 2020 , 2107, 269-275	1.4	2
82	Diversifying crop rotations enhances agroecosystem services and resilience. <i>Advances in Agronomy</i> , 2022 , 299-335	7.7	2
81	Benefits and Limitations to Plastic Mulching and Nitrogen Fertilization on Grain Yield and Sulfur Nutrition: Multi-Site Field Trials in the Semiarid Area of China.. <i>Frontiers in Plant Science</i> , 2022 , 13, 799093	6.2	2
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79	Effects of organic amendments and ridge-furrow mulching system on soil properties and economic benefits of wolfberry orchards on the Tibetan Plateau.. <i>Science of the Total Environment</i> , 2022 , 827, 154317	10.2	2
78	Effect of film mulching on crop yield and water use efficiency in drip irrigation systems: A meta-analysis. <i>Soil and Tillage Research</i> , 2022 , 221, 105392	6.5	2
77	Nitrogen Vertical Distribution Differed in Foliar and Nonfoliar Organs of Dryland Wheat during Grain Filling. <i>Agronomy Journal</i> , 2019 , 111, 1218-1228	2.2	1

76	Novel approaches to mitigate heat stress impacts on crop growth and development. <i>Plant Physiology Reports</i> , 2020 , 25, 627-644	1.4	1
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65	Phenology determines water use strategies of three economic tree species in the semi-arid Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2022 , 312, 108716	5.8	1
64	Optimizing nitrogen fertilizer inputs and plant populations for greener wheat production with high yields and high efficiency in dryland areas. <i>Field Crops Research</i> , 2022 , 276, 108374	5.5	1
63	Limited irrigation and fertilization in sand-layered soil increases nitrogen use efficiency and economic benefits under film mulched ridge-furrow irrigation in arid areas. <i>Agricultural Water Management</i> , 2022 , 262, 107406	5.9	1
62	The effect of exogenously applied plant growth regulators and zinc on some physiological characteristics and essential oil constituents of Moldavian balm (<i>L.</i>) under water stress. <i>Physiology and Molecular Biology of Plants</i> , 2021 , 27, 2201-2214	2.8	1
61	Identification of Novel Quantitative Trait Nucleotides and Candidate Genes for Bacterial Wilt Resistance in Tobacco (<i>L.</i>) Using Genotyping-by-Sequencing and Multi-Locus Genome-Wide Association Studies. <i>Frontiers in Plant Science</i> , 2021 , 12, 744175	6.2	1
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47	Recent Advances in the Agronomy of Food Legumes 2021 , 255-302		1
46	Salt-Tolerance in Castor Bean (<i>Ricinus communis</i> L.) Is Associated with Thicker Roots and Better Tissue K ⁺ /Na ⁺ Distribution. <i>Agriculture (Switzerland)</i> , 2021 , 11, 821	3	1
45	Breeding custom-designed crops for improved drought adaptation. <i>Genetics & Genomics Next</i> , 2021 , 2, e202100017	1.2	1
44	Soil hydrothermal modeling in a dry alpine agricultural zone: The effect of soil airflow. <i>Geoderma</i> , 2021 , 402, 115354	6.7	1
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42	Transcriptomic profiling of wheat near-isogenic lines reveals candidate genes on chromosome 3A for pre-harvest sprouting resistance. <i>BMC Plant Biology</i> , 2021 , 21, 53	5.3	1
41	Accumulation of zinc, iron and selenium in wheat as affected by phosphorus supply in salinised condition. <i>Crop and Pasture Science</i> , 2022 ,	2.2	1

40	Rice Genotypes Express Compensatory Root Growth With Altered Root Distributions in Response to Root Cutting.. <i>Frontiers in Plant Science</i> , 2022 , 13, 830577	6.2	1
39	Exogenous Microorganisms Promote Moss Biocrust Growth by Regulating the Microbial Metabolic Pathway in Artificial Laboratory Cultivation.. <i>Frontiers in Microbiology</i> , 2022 , 13, 819888	5.7	1
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37	Industrial Hemp (<i>Cannabis sativa</i> L.) Varieties and Seed Pre-Treatments Affect Seed Germination and Early Growth of Seedlings. <i>Agronomy</i> , 2022 , 12, 6	3.6	1
36	Screening of Soybean Genotypes Based on Root Morphology and Shoot Traits Using the Semi-Hydroponic Phenotyping Platform and Rhizobox Technique. <i>Agronomy</i> , 2022 , 12, 56	3.6	1
35	Evaluation of cultivation methods, surface, and deep soil water use of maize in a semi-arid environment in China. <i>Archives of Agronomy and Soil Science</i> , 2020 , 1-16	2	0
34	Effect of different straw returning measures on resource use efficiency and spring maize yield under a plastic film mulch system. <i>European Journal of Agronomy</i> , 2022 , 134, 126461	5	0
33	Nitric oxide secures reproductive efficiency in heat-stressed lentil (Medik.) plants by enhancing the photosynthetic ability to improve yield traits.. <i>Physiology and Molecular Biology of Plants</i> , 2021 , 27, 2549-2566	2.8	0
32	Nutrients Leaching from Tillage Soil Amended with Wheat Straw Biochar Influenced by Fertiliser Type. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1132	3	0
31	Effects of different continuous fertilizer managements on soil total nitrogen stocks in China: A meta-analysis. <i>Pedosphere</i> , 2022 , 32, 39-48	5	0
30	Dryland field validation of genotypic variation in salt tolerance of chickpea (<i>Cicer arietinum</i> L.) determined under controlled conditions. <i>Field Crops Research</i> , 2022 , 276, 108392	5.5	0
29	Identification and Analysis of Small Interfering RNAs Associated With Heat Stress in Flowering Chinese Cabbage Using High-Throughput Sequencing. <i>Frontiers in Genetics</i> , 2021 , 12, 746816	4.5	0
28	Zeolite increases paddy soil potassium fixation, partial factor productivity, and potassium balance under alternate wetting and drying irrigation. <i>Agricultural Water Management</i> , 2022 , 260, 107294	5.9	0
27	Challenges of the establishment of rubber-based agroforestry systems: Decreases in the diversity and abundance of ground arthropods. <i>Journal of Environmental Management</i> , 2021 , 292, 112747	7.9	0
26	FOLIAR APPLICATION OF POTASSIUM AND ZINC ENHANCES THE PRODUCTIVITY AND VOLATILE OIL CONTENT OF DAMASK ROSE (<i>Rosa damascena</i> Miller var. <i>trigintipetala</i> Dieck). <i>Acta Scientiarum Polonorum, Hortorum Cultus</i> , 2021 , 20, 101-114	1.6	0
25	Response of Mungbean (cvs. Celera II-AU and Jade-AU) and Blackgram (cv. Onyx-AU) to Transient Waterlogging. <i>Frontiers in Plant Science</i> , 2021 , 12, 709102	6.2	0
24	A clear trade-off between leaf hydraulic efficiency and safety in an aridland shrub during regrowth. <i>Plant, Cell and Environment</i> , 2021 , 44, 3347-3357	8.4	0
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22	Application of humic acid and biofertilizers changes oil and phenolic compounds of fennel and fenugreek in intercropping systems.. <i>Scientific Reports</i> , 2022 , 12, 5946	4.9	○
21	Interaction between soil water and fertilizer utilization on maize under plastic mulching in an arid irrigation region of China. <i>Agricultural Water Management</i> , 2022 , 265, 107494	5.9	○
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19	Carbon footprint analysis of sweet sorghum-based bioethanol production in the potential saline - Alkali land of northwest China. <i>Journal of Cleaner Production</i> , 2022 , 349, 131476	10.3	○
18	Response of soil microbial community parameters to plastic film mulch: A meta-analysis. <i>Geoderma</i> , 2022 , 418, 115851	6.7	○
17	Heat Stress during Meiosis Has Lasting Impacts on Plant Growth and Reproduction in Wheat (<i>Triticum aestivum</i> L.). <i>Agronomy</i> , 2022 , 12, 987	3.6	○
16	Genetic Dissection of Tobacco (<i>Nicotiana tabacum</i> L.) Plant Height Using Single-Locus and Multi-Locus Genome-Wide Association Studies. <i>Agronomy</i> , 2022 , 12, 1047	3.6	○
15	Yield and water-use related traits in landrace and new soybean cultivars in arid and semi-arid areas of China. <i>Field Crops Research</i> , 2022 , 283, 108559	5.5	○
14	Ammoniated straw incorporation increases wheat yield, yield stability, soil organic carbon and soil total nitrogen content. <i>Field Crops Research</i> , 2022 , 284, 108558	5.5	○
13	Improving Chickpea Genetic Gain Under Rising Drought and Heat Stress Using Breeding Approaches and Modern Technologies 2022 , 1-25		○
12	Wheat Proteomics for Abiotic Stress Tolerance and Root System Architecture: Current Status and Future Prospects. <i>Proteomes</i> , 2022 , 10, 17	4.6	○
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8	Community-Based Self-Help Groups in Agriculture 2020 , 217-239		
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5	A PCR-based marker closely linked to a 2BS QTL conferring wheat yellow spot resistance for marker-assisted breeding. <i>Crop and Pasture Science</i> , 2016 , 67, 719	2.2	

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- 3 Physiological and biochemical responses of *Lawsonia inermis* L. to heavy metal pollution in arid environments. *South African Journal of Botany*, **2021**, 143, 7-16 2.9
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