

Kadambot Siddique

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

597
papers

19,427
citations

71
h-index

113
g-index

633
ext. papers

25,012
ext. citations

4.9
avg, IF

7.24
L-index

#	Paper	IF	Citations
597	Increasing sustainability for rice production systems. <i>Journal of Cereal Science</i> , 2022 , 103, 103400	3.8	5
596	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review.. <i>Science of the Total Environment</i> , 2022 , 822, 153555	10.2	12
595	Alkaline Salt Inhibits Seed Germination and Seedling Growth of Canola More Than Neutral Salt.. <i>Frontiers in Plant Science</i> , 2022 , 13, 814755	6.2	2
594	Salt-responsive transcriptome analysis of canola roots reveals candidate genes involved in the key metabolic pathway in response to salt stress.. <i>Scientific Reports</i> , 2022 , 12, 1666	4.9	1
593	Role of Glycine Betaine in the Thermotolerance of Plants. <i>Agronomy</i> , 2022 , 12, 276	3.6	5
592	Beijerinckia fluminensis BFC-33, a novel multi-stress-tolerant soil bacterium: Deciphering the stress amelioration, phytopathogenic inhibition and growth promotion in Triticum aestivum L. (wheat).. <i>Chemosphere</i> , 2022 , 295, 133843	8.4	5
591	Physical, chemical, and microbial contaminants in food waste management for soil application: A review.. <i>Environmental Pollution</i> , 2022 , 118860	9.3	2
590	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
589	Changes in the essential oil, fixed oil constituents, and phenolic compounds of ajowan and fenugreek in intercropping with pea affected by fertilizer sources. <i>Industrial Crops and Products</i> , 2022 , 178, 114587	5.9	1
588	Breeding More Crops in Less Time: A Perspective on Speed Breeding.. <i>Biology</i> , 2022 , 11,	4.9	6
587	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
586	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
585	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
584	Effect of fertilizer management on the soil bacterial community in agroecosystems across the globe. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 326, 107795	5.7	3
583	Family genes in rice control lateral root primordium size.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	5
582	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
581	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

580	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
579	Biochar incorporation increases winter wheat (<i>Triticum aestivum</i> L.) production with significantly improving soil enzyme activities at jointing stage. <i>Catena</i> , 2022 , 211, 105979	5.8	2
578	Seasonal variation and controlling factors of evapotranspiration over dry semi-humid cropland in Guanzhong Plain, China. <i>Agricultural Water Management</i> , 2022 , 259, 107242	5.9	1
577	Biomaterial amendments combined with ridgefurrow mulching improve soil hydrothermal characteristics and wolfberry (<i>Lycium barbarum</i> L.) growth in the Qaidam Basin of China. <i>Agricultural Water Management</i> , 2022 , 259, 107213	5.9	
576	Assessing the performance of conservation measures for controlling slope runoff and erosion using field scouring experiments. <i>Agricultural Water Management</i> , 2022 , 259, 107212	5.9	1
575	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
574	Microbial consortium inoculant increases pasture grasses yield in low-phosphorus soil by influencing root morphology, rhizosphere carboxylate exudation and mycorrhizal colonisation. <i>Journal of the Science of Food and Agriculture</i> , 2022 , 102, 540-549	4.3	1
573	Zeolite increases grain yield and potassium balance in paddy fields. <i>Geoderma</i> , 2022 , 405, 115397	6.7	1
572	Diversifying crop rotations enhances agroecosystem services and resilience. <i>Advances in Agronomy</i> , 2022 , 299-335	7.7	2
571	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
570	Graded Moisture Deficit Effect on Secondary Metabolites, Antioxidant, and Inhibitory Enzyme Activities in Leaf Extracts of <i>Rosa damascena</i> Mill. var. <i>trigentipetala</i> . <i>Horticulturae</i> , 2022 , 8, 177	2.5	3
569	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
568	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
567	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
566	Salinity stress tolerance and omics approaches: revisiting the progress and achievements in major cereal crops.. <i>Heredity</i> , 2022 ,	3.6	5
565	Progress of Genomics-Driven Approaches for Sustaining Underutilized Legume Crops in the Post-Genomic Era.. <i>Frontiers in Genetics</i> , 2022 , 13, 831656	4.5	1
564	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	0
563	Foliar Spray of Micronutrients Alleviates Heat and Moisture Stress in Lentil (<i>Medik</i>) Grown Under Rainfed Field Conditions.. <i>Frontiers in Plant Science</i> , 2022 , 13, 847743	6.2	2

562	Regulation of photosynthesis under salt stress and associated tolerance mechanisms.. <i>Plant Physiology and Biochemistry</i> , 2022 , 178, 55-69	5.4	4
561	Future climate change impacts on mulched maize production in an arid irrigation area. <i>Agricultural Water Management</i> , 2022 , 266, 107550	5.9	
560	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	0
559	Plastic film mulching affects field water balance components, grain yield, and water productivity of rainfed maize in the Loess Plateau, China: A synthetic analysis of multi-site observations. <i>Agricultural Water Management</i> , 2022 , 266, 107570	5.9	0
558	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	0
557	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
556	Response of soil microbial community parameters to plastic film mulch: A meta-analysis. <i>Geoderma</i> , 2022 , 418, 115851	6.7	0
555	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
554	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
553	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	0
552	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
551	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	0
550	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	0
549	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	0
548	Improving Chickpea Genetic Gain Under Rising Drought and Heat Stress Using Breeding Approaches and Modern Technologies 2022 , 1-25		0
547	Approaches Toward Developing Heat and Drought Tolerance in Mungbean 2022 , 205-234		
546	Wheat Proteomics for Abiotic Stress Tolerance and Root System Architecture: Current Status and Future Prospects. <i>Proteomes</i> , 2022 , 10, 17	4.6	0
545	Film Mulching with Low Phosphorus Application Improves Soil Organic Carbon and Its Decomposability in a Semiarid Agroecosystem. <i>Agriculture (Switzerland)</i> , 2022 , 12, 816	3	0

544	Mobilization of contaminants: Potential for soil remediation and unintended consequences. <i>Science of the Total Environment</i> , 2022 , 839, 156373	10.2	0
543	Nitrogen supply improved plant growth and Cd translocation in maize at the silking and physiological maturity under moderate Cd stress.. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 230, 113137	7	2
542	Characterization of Root System Architecture Traits in Diverse Soybean Genotypes Using a Semi-Hydroponic System.. <i>Plants</i> , 2021 , 10,	4.5	2
541	Below-ground physiological processes enhancing phosphorus acquisition in plants. <i>Plant Physiology Reports</i> , 2021 , 26, 600	1.4	2
540	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. <i>Environmental Pollution</i> , 2021 , 293, 118564	9.3	7
539	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
538	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
537	A chickpea genetic variation map based on the sequencing of 3,366 genomes. <i>Nature</i> , 2021 , 599, 622-627	10.4	15
536	Nutrients Leaching from Tillage Soil Amended with Wheat Straw Biochar Influenced by Fertiliser Type. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1132	3	0
535	Effects of Biochar and Biochar Compost Mix on Growth, Performance and Physiological Responses of Potted <i>Alpinia zerumbet</i> . <i>Sustainability</i> , 2021 , 13, 11226	3.6	2
534	The effect of exogenously applied plant growth regulators and zinc on some physiological characteristics and essential oil constituents of Moldavian balm (L.) under water stress. <i>Physiology and Molecular Biology of Plants</i> , 2021 , 27, 2201-2214	2.8	1
533	Association mapping of drought tolerance and agronomic traits in rice (<i>Oryza sativa</i> L.) landraces. <i>BMC Plant Biology</i> , 2021 , 21, 484	5.3	5
532	Identification of Novel Quantitative Trait Nucleotides and Candidate Genes for Bacterial Wilt Resistance in Tobacco (L.) Using Genotyping-by-Sequencing and Multi-Locus Genome-Wide Association Studies. <i>Frontiers in Plant Science</i> , 2021 , 12, 744175	6.2	1
531	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
530	Multivariate genomic analysis and optimal contributions selection predicts high genetic gains in cooking time, iron, zinc, and grain yield in common beans in East Africa. <i>Plant Genome</i> , 2021 , 14, e20156	4.4	3
529	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
528	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2021 , 158, 106908	12.9	16
527	Effect of natural factors and management practices on agricultural water use efficiency under drought: A meta-analysis of global drylands. <i>Journal of Hydrology</i> , 2021 , 594, 125977	6	7

526	Identification of Candidate Genes for Root Traits Using Genotype-Phenotype Association Analysis of Near-Isogenic Lines in Hexaploid Wheat (L.). <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
525	Wheat cultivars with small root length density in the topsoil increased post-anthesis water use and grain yield in the semi-arid region on the Loess Plateau. <i>European Journal of Agronomy</i> , 2021 , 124, 126243	5.3	6
524	Reducing NO emissions with enhanced efficiency nitrogen fertilizers (EENFs) in a high-yielding spring maize system. <i>Environmental Pollution</i> , 2021 , 273, 116422	9.3	3
523	Lower seed P content does not affect early growth in chickpea, provided starter P fertiliser is supplied. <i>Plant and Soil</i> , 2021 , 463, 113-124	4.2	1
522	Socio-cognitive constraints and opportunities for sustainable intensification in South Asia: insights from fuzzy cognitive mapping in coastal Bangladesh. <i>Environment, Development and Sustainability</i> , 2021 , 23, 16588-16616	4.5	5
521	Dynamics of Root Systems in Crop and Pasture Genotypes over the Last 100 Years 2021 , 91-120		
520	Durum wheat with the introgressed TaMATE1B gene shows resistance to terminal drought by ensuring deep root growth in acidic and Al ³⁺ -toxic subsoils. <i>Plant and Soil</i> , 2021 , 1	4.2	1
519	The Journey from Two-Step to Multi-Step Phosphorelay Signaling Systems. <i>Current Genomics</i> , 2021 , 22, 59-74	2.6	2
518	Multi-Site Evaluation of Accumulated Temperature and Rainfall for Maize Yield and Disease in Loess Plateau. <i>Agriculture (Switzerland)</i> , 2021 , 11, 373	3	1
517	The economicEnvironmental trade-off of growing apple trees in the drylands of China: A conceptual framework for sustainable intensification. <i>Journal of Cleaner Production</i> , 2021 , 296, 126497	10.3	8
516	Trade-Off between Root Efficiency and Root Size Is Associated with Yield Performance of Soybean under Different Water and Phosphorus Levels. <i>Agriculture (Switzerland)</i> , 2021 , 11, 481	3	1
515	Female reproductive organs of Brassica napus are more sensitive than male to transient heat stress. <i>Euphytica</i> , 2021 , 217, 1	2.1	1
514	Phosphorus Supply Increases Internode Length and Leaf Characteristics, and Increases Dry Matter Accumulation and Seed Yield in Soybean under Water Deficit. <i>Agronomy</i> , 2021 , 11, 930	3.6	3
513	Comparative transcriptome analyses for metribuzin tolerance provide insights into key genes and mechanisms restoring photosynthetic efficiency in bread wheat (<i>Triticum aestivum</i> L.). <i>Genomics</i> , 2021 , 113, 910-918	4.3	5
512	In addition to foliar manganese concentration, both iron and zinc provide proxies for rhizosheath carboxylates in chickpea under low phosphorus supply. <i>Plant and Soil</i> , 2021 , 465, 31-46	4.2	2
511	Photosynthesis, Chlorophyll Fluorescence, and Yield of Peanut in Response to Biochar Application. <i>Frontiers in Plant Science</i> , 2021 , 12, 650432	6.2	4
510	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
509	Heat Priming of Lentil (Medik.) Seeds and Foliar Treatment with γ -Aminobutyric Acid (GABA), Confers Protection to Reproductive Function and Yield Traits under High-Temperature Stress Environments. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1

508	Anthropogenic drivers of soil microbial communities and impacts on soil biological functions in agroecosystems. <i>Global Ecology and Conservation</i> , 2021 , 27, e01521	2.8	7
507	Arbuscular mycorrhizal fungus-mediated interspecific nutritional competition of a pasture legume and grass under drought-stress. <i>Rhizosphere</i> , 2021 , 18, 100349	3.5	3
506	Can nitrate-based fertilization be recommended for the cultivation of ammonium-preferring species in a salty ecosystem? The case for <i>Spartina alterniflora</i> . <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	5
505	Impacts of land use conversion on the response of soil respiration to precipitation in drylands: A case study with four-yearlong observations. <i>Agricultural and Forest Meteorology</i> , 2021 , 304-305, 108426	5.8	1
504	Deficit irrigation improves maize yield and water use efficiency in a semi-arid environment. <i>Agricultural Water Management</i> , 2021 , 243, 106483	5.9	17
503	Sustainable Soil Management for Food Security in South Asia. <i>Journal of Soil Science and Plant Nutrition</i> , 2021 , 21, 258-275	3.2	4
502	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
501	Drought and salinity: A comparison of their effects on the ammonium-preferring species <i>Spartina alterniflora</i> . <i>Physiologia Plantarum</i> , 2021 , 172, 431-440	4.6	6
500	Quantifying the compensatory effect of increased soil temperature under plastic film mulching on crop growing degree days in a wheat-maize rotation system. <i>Field Crops Research</i> , 2021 , 260, 107993	5.5	7
499	A significant increase in rhizosheath carboxylates and greater specific root length in response to terminal drought is associated with greater relative phosphorus acquisition in chickpea. <i>Plant and Soil</i> , 2021 , 460, 51-68	4.2	6
498	Precipitation dominates the transpiration of both the economic forest (<i>Malus pumila</i>) and ecological forest (<i>Robinia pseudoacacia</i>) on the Loess Plateau after about 15 years of water depletion in deep soil. <i>Agricultural and Forest Meteorology</i> , 2021 , 297, 108244	5.8	10
497	Root-omics for drought tolerance in cool-season grain legumes. <i>Physiologia Plantarum</i> , 2021 , 172, 629-644	4.6	2
496	Transient daily heat stress during the early reproductive phase disrupts pod and seed development in <i>Brassica napus</i> L.. <i>Food and Energy Security</i> , 2021 , 10, e262	4.1	12
495	Measurements and modeling of hydrological responses to summer pruning in dryland apple orchards. <i>Journal of Hydrology</i> , 2021 , 594, 125651	6	4
494	Root system architecture, physiological and transcriptional traits of soybean (<i>Glycine max</i> L.) in response to water deficit: A review. <i>Physiologia Plantarum</i> , 2021 , 172, 405-418	4.6	15
493	The effects of straw incorporation with plastic film mulch on soil properties and bacterial community structure on the loess plateau. <i>European Journal of Soil Science</i> , 2021 , 72, 979-994	3.4	10
492	Zeolite alleviates potassium deficiency and improves lodging-related stem morphological characteristics and grain yield in rice. <i>Crop and Pasture Science</i> , 2021 , 72, 407	2.2	1
491	Recent Advances in the Agronomy of Food Legumes 2021 , 255-302		1

490	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
489	Lentil 2021 , 408-428		3
488	Sustainability of Traditional Rice Cultivation in Kerala, India: A Socio-Economic Analysis. <i>Sustainability</i> , 2021 , 13, 980	3.6	4
487	Omics and CRISPR-Cas9 Approaches for Molecular Insight, Functional Gene Analysis, and Stress Tolerance Development in Crops. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	10
486	Rediscovering Asia's forgotten crops to fight chronic and hidden hunger. <i>Nature Plants</i> , 2021 , 7, 116-122	11.5	16
485	Na and/or Cl Toxicities Determine Salt Sensitivity in Soybean (L.), Mungbean (L.) R. Wilczek), Cowpea (L.), and Common Bean (L.). <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
484	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
483	Nanobiotechnology for Agriculture: Smart Technology for Combating Nutrient Deficiencies with Nanotoxicity Challenges. <i>Sustainability</i> , 2021 , 13, 1781	3.6	16
482	Resilience achieved via multiple compensating subsystems: The immediate impacts of COVID-19 control measures on the agri-food systems of Australia and New Zealand. <i>Agricultural Systems</i> , 2021 , 187, 103025	6.1	16
481	Agricultural Innovation and Sustainable Development: A Case Study of Rice-Wheat Cropping Systems in South Asia. <i>Sustainability</i> , 2021 , 13, 1965	3.6	3
480	Non-Coding RNAs in Legumes: Their Emerging Roles in Regulating Biotic/Abiotic Stress Responses and Plant Growth and Development. <i>Cells</i> , 2021 , 10,	7.9	7
479	Growth and Antioxidant Responses in Iron-Biofortified Lentil under Cadmium Stress. <i>Toxics</i> , 2021 , 9,	4.7	4
478	Cross tolerance to phosphorus deficiency and drought stress in mungbean is regulated by improved antioxidant capacity, biological N ₂ -fixation, and differential transcript accumulation. <i>Plant and Soil</i> , 2021 , 466, 337-356	4.2	5
477	'Omics' approaches in developing combined drought and heat tolerance in food crops. <i>Plant Cell Reports</i> , 2021 , 1	5.1	5
476	Genome-wide transcriptome analysis and physiological variation modulates gene regulatory networks acclimating salinity tolerance in chickpea. <i>Environmental and Experimental Botany</i> , 2021 , 187, 104478	5.9	4
475	Metabolomics and Molecular Approaches Reveal Drought Stress Tolerance in Plants. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	14
474	Disruption of carbohydrate and proline metabolism in anthers under low temperature causes pollen sterility in chickpea. <i>Environmental and Experimental Botany</i> , 2021 , 188, 104500	5.9	4
473	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

472	Responses of canopy characteristics and water use efficiency to ammoniated straw incorporation for summer maize (<i>Zea mays</i> L.) in the Loess Plateau, China. <i>Agricultural Water Management</i> , 2021 , 254, 106948	5.9	4
471	Adaptation of Grain Legumes to Terminal Drought after Rice Harvest in Timor-Leste. <i>Agronomy</i> , 2021 , 11, 1689	3.6	
470	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
469	Biochar, Compost, and Biochar-Compost Blend Applications Modulate Growth, Photosynthesis, Osmolytes, and Antioxidant System of Medicinal Plant. <i>Frontiers in Plant Science</i> , 2021 , 12, 707061	6.2	2
468	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
467	Soil microbial community and network changes after long-term use of plastic mulch and nitrogen fertilization on semiarid farmland. <i>Geoderma</i> , 2021 , 396, 115086	6.7	13
466	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
465	Grain development in wheat under combined heat and drought stress: Plant responses and management. <i>Environmental and Experimental Botany</i> , 2021 , 188, 104517	5.9	12
464	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
463	Integrated transcriptomics and metabolomics analysis to characterize alkali stress responses in canola (<i>Brassica napus</i> L.). <i>Plant Physiology and Biochemistry</i> , 2021 , 166, 605-620	5.4	7
462	Integrated farming with intercropping increases food production while reducing environmental footprint. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	10
461	Rapid delivery systems for future food security. <i>Nature Biotechnology</i> , 2021 , 39, 1179-1181	44.5	4
460	Extraction and identification methods of microplastics and nanoplastics in agricultural soil: A review. <i>Journal of Environmental Management</i> , 2021 , 294, 112997	7.9	20
459	Fast-forward breeding for a food-secure world. <i>Trends in Genetics</i> , 2021 , 37, 1124-1136	8.5	15
458	Breeding custom-designed crops for improved drought adaptation. <i>Genetics & Genomics Next</i> , 2021 , 2, e202100017	1.2	1
457	Root morphology and rhizosphere acid phosphatase activity in legume and graminoid species respond differently to low phosphorus supply. <i>Rhizosphere</i> , 2021 , 19, 100391	3.5	4
456	Soil organic carbon, total nitrogen, available nutrients, and yield under different straw returning methods. <i>Soil and Tillage Research</i> , 2021 , 214, 105171	6.5	11
455	Matching fertilization with water availability enhances maize productivity and water use efficiency in a semi-arid area: Mechanisms and solutions. <i>Soil and Tillage Research</i> , 2021 , 214, 105164	6.5	2

454	Benefits and limitations of straw mulching and incorporation on maize yield, water use efficiency, and nitrogen use efficiency. <i>Agricultural Water Management</i> , 2021 , 256, 107128	5.9	7
453	Straw incorporation with ridgefurrow plastic film mulch alters soil fungal community and increases maize yield in a semiarid region of China. <i>Applied Soil Ecology</i> , 2021 , 167, 104038	5	6
452	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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449	From mine to mind and mobiles - Lithium contamination and its risk management. <i>Environmental Pollution</i> , 2021 , 290, 118067	9.3	4
448	Physiological and biochemical responses of <i>Lawsonia inermis</i> L. to heavy metal pollution in arid environments. <i>South African Journal of Botany</i> , 2021 , 143, 7-16	2.9	
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446	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
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437	Effects, tolerance mechanisms and management of salt stress in lucerne (<i>Medicago sativa</i>). <i>Crop and Pasture Science</i> , 2020 , 71, 411	2.2	13

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434	Drought responses of profile plant-available water and fine-root distributions in apple (<i>Malus pumila</i> Mill.) orchards in a loessial, semi-arid, hilly area of China. <i>Science of the Total Environment</i> , 2020 , 723, 137739	10.2	16
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420	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
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4 ¹⁸	Effects of zinc fertilizer on maize yield and water-use efficiency under different soil water conditions. <i>Field Crops Research</i> , 2020 , 248, 107718	5.5	9
4 ¹⁷	Phenotypic variability in bread wheat root systems at the early vegetative stage. <i>BMC Plant Biology</i> , 2020 , 20, 185	5.3	16
4 ¹⁶	Using sorghum to suppress weeds in autumn planted maize. <i>Crop Protection</i> , 2020 , 133, 105162	2.7	8
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4 ¹⁴	Contrasting patterns in biomass allocation, root morphology and mycorrhizal symbiosis for phosphorus acquisition among 20 chickpea genotypes with different amounts of rhizosphere carboxylates. <i>Functional Ecology</i> , 2020 , 34, 1311-1324	5.6	13
4 ¹³	Assessment of biochemical and physiological parameters of durum wheat genotypes at the seedling stage during polyethylene glycol-induced water stress. <i>Plant Growth Regulation</i> , 2020 , 92, 81-93 ²	3.2	11
4 ¹²	Agronomic, physiological and molecular characterisation of rice mutants revealed the key role of reactive oxygen species and catalase in high-temperature stress tolerance. <i>Functional Plant Biology</i> , 2020 , 47, 440-453	2.7	28
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4 ¹⁰	Efficient Breeding of Pulse Crops 2020 , 1-30		1
4 ⁰⁹	Community-Based Self-Help Groups in Agriculture 2020 , 217-239		
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4 ⁰⁴	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
4 ⁰³	Polymer-coated rock mineral fertilizer has potential to substitute soluble fertilizer for increasing growth, nutrient uptake, and yield of wheat. <i>Biology and Fertility of Soils</i> , 2020 , 56, 381-394	6.1	8
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4 ⁰¹	Application of zinc and biochar help to mitigate cadmium stress in bread wheat raised from seeds with high intrinsic zinc. <i>Chemosphere</i> , 2020 , 260, 127652	8.4	24

400	Effect of traditional soybean breeding on water use strategy in arid and semi-arid areas. <i>European Journal of Agronomy</i> , 2020 , 120, 126128	5	6
399	Neglected and Underutilized Crop Species: The Key to Improving Dietary Diversity and Fighting Hunger and Malnutrition in Asia and the Pacific. <i>Frontiers in Nutrition</i> , 2020 , 7, 593711	6.2	11
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397	Genetic Dissection and Identification of Candidate Genes for Salinity Tolerance Using Axiom Array in Chickpea. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	15
396	Proteomic responses to progressive dehydration stress in leaves of chickpea seedlings. <i>BMC Genomics</i> , 2020 , 21, 523	4.5	13
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392	Comparison of zinc and iron uptake among diverse wheat germplasm at two phosphorus levels. <i>Cereal Research Communications</i> , 2020 , 48, 441-448	1.1	3
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387	Influence of seed priming techniques on grain yield and economic returns of bread wheat planted at different spacings. <i>Crop and Pasture Science</i> , 2020 , 71, 725	2.2	9
386	Exogenous Calcium Alleviates Nocturnal Chilling-Induced Feedback Inhibition of Photosynthesis by Improving Sink Demand in Peanut (). <i>Frontiers in Plant Science</i> , 2020 , 11, 607029	6.2	5
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380	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
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377	Influence of Zeolite and Phosphorus Applications on Water Use, P Uptake and Yield in Rice under Different Irrigation Managements. <i>Agronomy</i> , 2019 , 9, 537	3.6	9
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375	Integrated model and field experiment to determine the optimum planting density in plastic film mulched rainfed agriculture. <i>Agricultural and Forest Meteorology</i> , 2019 , 268, 331-340	5.8	10
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372	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
371	Ameliorative effects of potassium on drought-induced decreases in fiber length of cotton (<i>Gossypium hirsutum</i> L.) are associated with osmolyte dynamics during fiber development. <i>Crop Journal</i> , 2019 , 7, 619-634	4.6	12
370	Crop rotation options for dryland agriculture: An assessment of grain yield response in cool-season grain legumes and canola to variation in rainfall totals. <i>Agricultural and Forest Meteorology</i> , 2019 , 275, 277-282	5.8	6
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368	Alien chromosome segment from <i>Aegilops speltoides</i> and <i>Dasypyrum villosum</i> increases drought tolerance in wheat via profuse and deep root system. <i>BMC Plant Biology</i> , 2019 , 19, 242	5.3	11
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366	Securing reproductive function in mungbean grown under high temperature environment with exogenous application of proline. <i>Plant Physiology and Biochemistry</i> , 2019 , 140, 136-150	5.4	12
365	Physiological and agronomic approaches for improving water-use efficiency in crop plants. <i>Agricultural Water Management</i> , 2019 , 219, 95-108	5.9	34

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363	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
362	The number of cultivars in varietal winter-wheat mixtures influence aboveground biomass and grain yield in North China. <i>Plant and Soil</i> , 2019 , 439, 131-143	4.2	3
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360	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
359	Integrating different stability models to investigate genotype × environment interactions and identify stable and high-yielding barley genotypes. <i>Euphytica</i> , 2019 , 215, 1	2.1	28
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355	High intrinsic seed Zn concentration improves abiotic stress tolerance in wheat. <i>Plant and Soil</i> , 2019 , 437, 195-213	4.2	27
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347	PASTIC: An online toolkit to estimate plant abiotic stress indices. <i>Applications in Plant Sciences</i> , 2019 , 7, e11278	2.3	19

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341	The role of jasmonate signalling in quinolizidine alkaloid biosynthesis, wounding and aphid predation response in narrow-leafed lupin. <i>Functional Plant Biology</i> , 2019 , 46, 443-454	2.7	6
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323	Legume, Microbiome, and Regulatory Functions of miRNAs in Systematic Regulation of Symbiosis. <i>Microorganisms for Sustainability</i> , 2018 , 255-282	1.1	6
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317	Application of compost and clay under water-stressed conditions influences functional diversity of rhizosphere bacteria. <i>Biology and Fertility of Soils</i> , 2018 , 54, 55-70	6.1	34
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313	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
312	Impact of Abiotic Stresses on Grain Composition and Quality in Food Legumes. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 8887-8897	5.7	21
311	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

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309	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
308	Characterization of Root and Shoot Traits in Wheat Cultivars with Putative Differences in Root System Size. <i>Agronomy</i> , 2018 , 8, 109	3.6	27
307	Crop Phenomics for Abiotic Stress Tolerance in Crop Plants 2018 , 277-296		16
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305	Effect of zeolite application on phenology, grain yield and grain quality in rice under water stress. <i>Agricultural Water Management</i> , 2018 , 206, 241-251	5.9	18
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153	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
152	Micronutrient application through seed treatments: a review. <i>Journal of Soil Science and Plant Nutrition</i> , 2012 , 12, 125-142	3.2	137
151	Development of an assay to evaluate differences in germination rate among chickpea genotypes under limited water content. <i>Functional Plant Biology</i> , 2012 , 39, 60-70	2.7	4
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149	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

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144	Development of a novel semi-hydroponic phenotyping system for studying root architecture. <i>Functional Plant Biology</i> , 2011 , 38, 355-363	2.7	54
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137	Chickpea evolution has selected for contrasting phenological mechanisms among different habitats. <i>Euphytica</i> , 2011 , 180, 1-15	2.1	62
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133	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
132	Agricultural ecosystem management in dry areas: challenges and solutions. <i>Plant and Soil</i> , 2011 , 347, 1-6	4.2	22
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5	Role of Phytohormones in Regulating Heat Stress Acclimation in Agricultural Crops. <i>Journal of Plant Growth Regulation</i> , 1	4.7	4

4	Sesbania brown manuring improves soil health, productivity, and profitability of post-rice bread wheat and chickpea. <i>Experimental Agriculture</i> ,1-18	1.7	1
3	Application of bio and chemical fertilizers improves yield, and essential oil quantity and quality of Moldavian balm (<i>Dracocephalum moldavica</i> L.) intercropped with mung bean (<i>Vigna radiata</i> L.). <i>Food and Energy Security</i> ,e319	4.1	7
2	Diversified crop rotations enhance groundwater and economic sustainability of food production. <i>Food and Energy Security</i> ,e311	4.1	3
1	Co-inoculation of Phosphate-Solubilizing Bacteria and Mycorrhizal Fungi: Effect on Seed Yield, Physiological Variables, and Fixed Oil and Essential Oil Productivity of Ajowan (<i>Carum copticum</i> L.) Under Water Deficit. <i>Journal of Soil Science and Plant Nutrition</i> ,1	3.2	2