Lee R Dehaan

List of Publications by Year
in descending order

60 papers	2,849 citations	218381 26 h-index	189595 50 g-index
63 all docs	63 docs citations	63 times ranked	1585 citing authors

#	Article	IF	Citations
1	Increased Food and Ecosystem Security via Perennial Grains. Science, 2010, 328, 1638-1639.	6.0	397
2	Prospects for Developing Perennial Grain Crops. BioScience, 2006, 56, 649.	2.2	210
3	Soil and Water Quality Rapidly Responds to the Perennial Grain Kernza Wheatgrass. Agronomy Journal, 2013, 105, 735-744.	0.9	192
4	Harvested perennial grasslands provide ecological benchmarks for agricultural sustainability. Agriculture, Ecosystems and Environment, 2010, 137, 3-12.	2.5	154
5	Perennial grain crops: A synthesis of ecology and plant breeding. Renewable Agriculture and Food Systems, 2005, 20, 5-14.	0.8	119
6	Managing for Multifunctionality in Perennial Grain Crops. BioScience, 2018, 68, 294-304.	2.2	113
7	Progress in breeding perennial grains. Crop and Pasture Science, 2010, 61, 513.	0.7	105
8	A Pipeline Strategy for Grain Crop Domestication. Crop Science, 2016, 56, 917-930.	0.8	101
9	Development and Evolution of an Intermediate Wheatgrass Domestication Program. Sustainability, 2018, 10, 1499.	1.6	89
10	Establishment and Optimization of Genomic Selection to Accelerate the Domestication and Improvement of Intermediate Wheatgrass. Plant Genome, 2016, 9, plantgenome2015.07.0059.	1.6	86
11	Missing domesticated plant forms: can artificial selection fill the gap?. Evolutionary Applications, 2010, 3, 434-452.	1.5	78
12	Intermediate Wheatgrass Grain and Forage Yield Responses to Nitrogen Fertilization. Agronomy Journal, 2017, 109, 462-472.	0.9	73
13	Perennial cereal crops: An initial evaluation of wheat derivatives. Field Crops Research, 2012, 133, 68-89.	2.3	65
14	Roadmap for Accelerated Domestication of an Emerging Perennial Grain Crop. Trends in Plant Science, 2020, 25, 525-537.	4.3	65
15	â€˜MNâ€Clearwaterâ€™, the first foodâ€grade intermediate wheatgrass (Kernza perennial grain) cultivar. Journal of Plant Registrations, 2020, 14, 288-297.	0.4	58
16	New Food Crop Domestication in the Age of Gene Editing: Genetic, Agronomic and Cultural Change Remain Co-evolutionarily Entangled. Frontiers in Plant Science, 2020, 11, 789.	1.7	56
17	Perennial Cereals Provide Ecosystem Benefits. Cereal Foods World, 2017, 62, 278-281.	0.7	51
18	Energy, water and carbon exchange over a perennial Kernza wheatgrass crop. Agricultural and Forest Meteorology, 2018, 249, 120-137.	1.9	49

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19	Maintaining grain yields of the perennial cereal intermediate wheatgrass in monoculture <i>v.</i> bi-culture with alfalfa in the Upper Midwestern USA. Journal of Agricultural Science, 2018, 156, 758-773.	0.6	46
20	The Strong Perennial Vision: A Response. Agroecology and Sustainable Food Systems, 2015, 39, 500-515.	1.0	44
21	Development of the first consensus genetic map of intermediate wheatgrass (Thinopyrum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.8	43
22	Agricultural and biofuel implications of a species diversity experiment with native perennial grassland plants. Agriculture, Ecosystems and Environment, 2010, 137, 33-38.	2.5	42
23	Useful insights from evolutionary biology for developing perennial grain crops¹. American Journal of Botany, 2014, 101, 1801-1819.	0.8	39
24	The Reflective Plant Breeding Paradigm: A Robust System of Germplasm Development to Support Strategic Diversification of Agroecosystems. Crop Science, 2014, 54, 1939-1948.	0.8	35
25	Genome evolution of intermediate wheatgrass as revealed by EST-SSR markers developed from its three progenitor diploid species. Genome, 2015, 58, 63-70.	0.9	35
26	Genome mapping of quantitative trait loci (QTL) controlling domestication traits of intermediate wheatgrass (Thinopyrum intermedium). Theoretical and Applied Genetics, 2019, 132, 2325-2351.	1.8	30
27	Integrating multipurpose perennial grains crops in Western European farming systems. Agriculture, Ecosystems and Environment, 2019, 284, 106591.	2.5	28
28	Building a botanical foundation for perennial agriculture: Global inventory of wild, perennial herbaceous Fabaceae species. Plants People Planet, 2019, 1, 375-386.	1.6	28
29	Enhancing Crop Domestication Through Genomic Selection, a Case Study of Intermediate Wheatgrass. Frontiers in Plant Science, 2020, 11, 319.	1.7	28
30	Uncovering the Genetic Architecture of Seed Weight and Size in Intermediate Wheatgrass through Linkage and Association Mapping. Plant Genome, 2017, 10, plantgenome2017.03.0022.	1.6	26
31	Carbon and water relations in perennial Kernza (Thinopyrum intermedium): An overview. Plant Science, 2020, 295, 110279.	1.7	25
32	New insights into high-molecular-weight glutenin subunits and sub-genomes of the perennial crop Thinopyrum intermedium (Triticeae). Journal of Cereal Science, 2014, 59, 203-210.	1.8	22
33	Genomic prediction enables rapid selection of highâ€performing genets in an intermediate wheatgrass breeding program. Plant Genome, 2021, 14, e20080.	1.6	21
34	Towards the understanding of end-use quality in intermediate wheatgrass (Thinopyrum intermedium): High-molecular-weight glutenin subunits, protein polymerization, and mixing characteristics. Journal of Cereal Science, 2015, 66, 81-88.	1.8	20
35	Peakmatcher. Crop Science, 2002, 42, 1361-1364.	0.8	19
36	Floret site utilization and reproductive tiller number are primary components of grain yield in intermediate wheatgrass spaced plants. Crop Science, 2021, 61, 1073-1088.	0.8	19

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37	Genetic Variation in Three Native Plant Species across the State of Minnesota. Crop Science, 2007, 47, 2379-2389.	0.8	17
38	Post-Harvest Management Practices Impact on Light Penetration and Kernza Intermediate Wheatgrass Yield Components. Agronomy, 2021, 11, 442.	1.3	17
39	Process-based analysis of Thinopyrum intermedium phenological development highlights the importance of dual induction for reproductive growth and agronomic performance. Agricultural and Forest Meteorology, 2021, 301-302, 108341.	1.9	17
40	Evaluation of Diversity among and within Accessions of Illinois Bundleflower. Crop Science, 2003, 43, 1528-1537.	0.8	17
41	Re-imagining crop domestication in the era of high throughput phenomics. Current Opinion in Plant Biology, 2022, 65, 102150.	3.5	16
42	Accelerated Domestication of New Crops: Yield is Key. Plant and Cell Physiology, 2022, 63, 1624-1640.	1.5	16
43	Evaluation of Diversity among North American Accessions of False Indigo (Amorpha fruticosa L.) for Forage and Biomass. Genetic Resources and Crop Evolution, 2006, 53, 1463-1476.	0.8	15
44	Sequenced-based paternity analysis to improve breeding and identify self-incompatibility loci in intermediate wheatgrass (Thinopyrum intermedium). Theoretical and Applied Genetics, 2020, 133, 3217-3233.	1.8	13
45	Contrasting Physiological and Environmental Controls of Evapotranspiration over Kernza Perennial Crop, Annual Crops, and C4 and Mixed C3/C4 Grasslands. Sustainability, 2019, 11, 1640.	1.6	12
46	Development of wholeâ€genome prediction models to increase the rate of genetic gain in intermediate wheatgrass (<i>Thinopyrum intermedium</i>) breeding. Plant Genome, 2021, 14, e20089.	1.6	12
47	Nested association mapping reveals the genetic architecture of spike emergence and anthesis timing in intermediate wheatgrass. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	11
48	Recurrent Selection for Seedling Vigor in Kura Clover. Crop Science, 2001, 41, 1034-1041.	0.8	9
49	Illinois Bundleflower Genetic Diversity Determined by AFLP Analysis. Crop Science, 2003, 43, 402.	0.8	8
50	Transcriptome assembly and annotation of johnsongrass (<i>Sorghum halepense</i>) rhizomes identify candidate rhizomeâ€specific genes. Plant Direct, 2018, 2, e00065.	0.8	8
51	Wild Plants to the Rescue. American Scientist, 2013, 100, 218.	0.1	8
52	QTL for seed shattering and threshability in intermediate wheatgrass align closely with wellâ€studied orthologs from wheat, barley, and rice. Plant Genome, 2021, 14, e20145.	1.6	8
53	Quantitative Trait Loci (QTL) for Forage Traits in Intermediate Wheatgrass When Grown as Spaced-Plants versus Monoculture and Polyculture Swards. Agronomy, 2019, 9, 580.	1.3	7
54	Effects of seeding date on grain and biomass yield of intermediate wheatgrass. Agronomy Journal, 2022, 114, 2342-2351.	0.9	7

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55	Kura clover and birdsfoot trefoil response to soil pH. Communications in Soil Science and Plant Analysis, 2002, 33, 1435-1449.	0.6	5
56	Response to inoculation in Illinois bundleflower. Canadian Journal of Plant Science, 2006, 86, 919-926.	0.3	5
57	Genetic architecture and QTL selection response for Kernza perennial grain domestication traits. Theoretical and Applied Genetics, 2022, 135, 2769-2784.	1.8	4
58	Illinois Bundleflower Genetic Diversity Determined by AFLP Analysis. Crop Science, 2003, 43, 402.	0.8	2
59	Gourmet grasslands: Harvesting a perennial future. One Earth, 2022, 5, 14-17.	3.6	2
60	Genetic architecture of yield component traits in the new perennial grain crop, intermediate wheatgrass (Thinopyrum intermedium). Crop Science, 0, , .	0.8	1