Weikai Yan

List of Publications by Year in Descending Order

70 papers	4,940 citations	30 h-index	70 g-index
81 ext. papers	6,167 ext. citations	2.7 avg, IF	5.94 L-index

#	Paper	IF	Citations
70	Genome analysis in Avena sativa reveals hidden breeding barriers and opportunities for oat improvement.. *Communications Biology*, **2022**, 5, 474	6.7	4
69	AAC Banner oat. *Canadian Journal of Plant Science*, **2021**, 101, 441-446	1	
68	Association of asparagine concentration in wheat with cultivar, location, fertilizer, and their interaction. *Food Chemistry*, **2021**, 344, 128630	8.5	3
67	Oat mega-environments in Canada. *Crop Science*, **2021**, 61, 1141-1153	2.4	4
66	A Systematic Narration of Some Key Concepts and Procedures in Plant Breeding. *Frontiers in Plant Science*, **2021**, 12, 724517	6.2	0
65	Reactions of eastern Canada oat genotypes to Puccinia coronata f. sp. avenae. *Canadian Journal of Plant Science*, **2020**, 100, 209-217	1	2
64	A targeted genotyping-by-sequencing tool (Rapture) for genomics-assisted breeding in oat. *Theoretical and Applied Genetics*, **2020**, 133, 653-664	6	3
63	Estimation of the Optimal Number of Replicates in Crop Variety Trials. *Frontiers in Plant Science*, **2020**, 11, 590762	6.2	2
62	LG biplot: a graphical method for mega-environment investigation using existing crop variety trial data. *Scientific Reports*, **2019**, 9, 7130	4.9	6
61	Nitrogen Application Improved Photosynthetic Productivity, Chlorophyll Fluorescence, Yield and Yield Components of Two Oat Genotypes under Saline Conditions. *Agronomy*, **2019**, 9, 115	3.6	16
60	Exploring agronomic strategies to improve oat productivity and control weeds: leaf type, row spacing, and planting density. *Canadian Journal of Plant Science*, **2018**, 98, 1084-1093	1	7
59	Screening Oat Genotypes for Tolerance to Salinity and Alkalinity. *Frontiers in Plant Science*, **2018**, 9, 1302	6.2	16
58	Soil nitrous oxide emissions from agricultural soils in Canada: Exploring relationships with soil, crop and climatic variables. *Agriculture, Ecosystems and Environment*, **2018**, 254, 69-81	5.7	53
57	A genetic linkage map in southern-by-spring oat identifies multiple quantitative trait loci for adaptation and rust resistance. *Plant Breeding*, **2018**, 138, 82	2.4	4
56	Genotype by Yield*Trait (GYT) Biplot: a Novel Approach for Genotype Selection based on Multiple Traits. *Scientific Reports*, **2018**, 8, 8242	4.9	39
55	Is Deoxynivalenol Contamination a Serious Problem for Oat in Eastern Canada?. *Crop Science*, **2017**, 57, 88-98	2.4	4
54	Nitrogen Fertilizer Complements Breeding in Improving Yield and Quality of Milling Oat. *Crop Science*, **2017**, 57, 3291-3302	2.4	9

53	AAC Bullet Oat. *Canadian Journal of Plant Science*, **2017**,	1	3
52	Optimization of cotton variety registration criteria aided with a genotype-by-trait biplot analysis. *Scientific Reports*, **2017**, 7, 17237	4.9	11
51	Nitrogen and phosphorus uptake, yield and agronomic traits of oat cultivars as affected by fertilizer N rates under diverse environments. *Nutrient Cycling in Agroecosystems*, **2017**, 108, 245-265	3.3	16
50	Effect of nitrogen fertilization on seed-borne Fusarium species in oat. *Canadian Journal of Plant Science*, **2017**,	1	2
49	Plant architecture, plasticity, and adaptation strategies of two oat genotypes under different competition intensities. *Journal of the Science of Food and Agriculture*, **2016**, 96, 1431-9	4.3	8
48	AAC Nicolas Oat. *Canadian Journal of Plant Science*, **2016**,	1	3
47	Population Genomics Related to Adaptation in Elite Oat Germplasm. *Plant Genome*, **2016**, 9, plantgenome2015.10.0103	4.4	35
46	Genotype-by-Environment Interaction and Trait Associations in Two Genetic Populations of Oat. *Crop Science*, **2016**, 56, 1136-1145	2.4	14
45	Analysis and Handling of G E in a Practical Breeding Program. *Crop Science*, **2016**, 56, 2106-2118	2.4	40
44	How many test locations and replications are needed in crop variety trials for a target region?. *Euphytica*, **2015**, 202, 361-372	2.1	25
43	Mega-environment Analysis and Test Location Evaluation Based on Unbalanced Multiyear Data. *Crop Science*, **2015**, 55, 113-122	2.4	31
42	**2014**,		72
41	SNP discovery and chromosome anchoring provide the first physically-anchored hexaploid oat map and reveal synteny with model species. *PLoS ONE*, **2013**, 8, e58068	3.7	60
40	Breeding for Ideal Milling Oat: Challenges and Strategies **2013**, 7-32		1
39	Biplot Analysis of Incomplete Two-Way Data. *Crop Science*, **2013**, 53, 48-57	2.4	29
38	Oat mega-environments and test-locations in Quebec. *Canadian Journal of Plant Science*, **2011**, 91, 643-649	1	15
37	Genotype Location Interaction Patterns and Testing Strategies for Oat in the Canadian Prairies. *Crop Science*, **2011**, 51, 1903-1914	2.4	13
36	Assessing the Representativeness and Repeatability of Test Locations for Genotype Evaluation. *Crop Science*, **2011**, 51, 1603-1610	2.4	37

35	Comment on Biplot Analysis of Genotype Environment Interaction: Proceed with Caution, by R.-C. Yang, J. Crossa, P.L. Cornelius, and J. Burgueo in Crop Science 2009 49:15641576. *Crop Science*, **2010**, 50, 1121-1123	2.4	7
34	Response of Oat Genotypes to Fusarium Head Blight in Eastern Canada. *Crop Science*, **2010**, 50, 134-142	2.4	22
33	Identifying Essential Test Locations for Oat Breeding in Eastern Canada. *Crop Science*, **2010**, 50, 504-515	2.4	42
32	A Set of New Simple Sequence Repeat and Avenin DNA Markers Suitable for Mapping and Fingerprinting Studies in Oat (Avena spp.). *Crop Science*, **2010**, 50, 1207-1218	2.4	15
31	Genotype Environment interactions in Pinus pinaster at age 10 in a multienvironment trial in Portugal: a maximum likelihood approach. *Annals of Forest Science*, **2010**, 67, 612-612	3.1	17
30	A heritability-adjusted GGE biplot for test environment evaluation. *Euphytica*, **2010**, 171, 355-369	2.1	97
29	Genotype by environment interactions of heat stress disorder resistance in crisphead lettuce. *Plant Breeding*, **2009**, 128, 374-380	2.4	13
28	Breeding Line Selection Based on Multiple Traits. *Crop Science*, **2008**, 48, 417-423	2.4	81
27	Changes in Isoflavone Concentration with 58 Years of Genetic Improvement of Short-Season Soybean Cultivars in Canada. *Crop Science*, **2008**, 48, 2201-2208	2.4	44
26	DUDE: A User-Friendly Crop Information System. *Agronomy Journal*, **2007**, 99, 1029-1033	2.2	3
25	GGE Biplot vs. AMMI Analysis of Genotype-by-Environment Data. *Crop Science*, **2007**, 47, 643-653	2.4	434
24	Associations Among Oat Traits and Their Responses to the Environment. *Journal of Crop Improvement*, **2007**, 20, 1-29	1.4	22
23	Biplot analysis of multi-environment trial data: Principles and applications. *Canadian Journal of Plant Science*, **2006**, 86, 623-645	1	486
22	Information systems for crop performance data. *Canadian Journal of Plant Science*, **2006**, 86, 647-662	1	7
21	An Integrated Biplot Analysis System for Displaying, Interpreting, and Exploring Genotype Environment Interaction. *Crop Science*, **2005**, 45, 1004-1016	2.4	146
20	A biplot approach for investigating QTL-by-environment patterns. *Molecular Breeding*, **2005**, 15, 31-43	3.4	15
19	QTL Identification, Mega-Environment Classification, and Strategy Development for Marker-Based Selection Using Biplots. *Journal of Crop Improvement*, **2005**, 14, 299-324	1.4	5
18	Effects of year, site, genotype and their interactions on various soybean isoflavones. *Field Crops Research*, **2003**, 81, 181-192	5.5	118

17	Prediction of Cultivar Performance Based on Single- versus Multiple-Year Tests in Soybean. *Crop Science*, **2003**, 43, 549	2.4	35
16	Singular-Value Partitioning in Biplot Analysis of Multienvironment Trial Data. *Agronomy Journal*, **2002**, 94, 990	2.2	206
15	On-Farm Strip Trials vs. Replicated Performance Trials for Cultivar Evaluation. *Crop Science*, **2002**, 42, 385-392	2.4	30
14	Biplots of Linear-Bilinear Models for Studying Crossover Genotype Environment Interaction. *Crop Science*, **2002**, 42, 619-633	2.4	71
13	Biplot Analysis of Host-by-Pathogen Data. *Plant Disease*, **2002**, 86, 1396-1401	1.5	41
12	Biplot Analysis of Test Sites and Trait Relations of Soybean in Ontario. *Crop Science*, **2002**, 42, 11-20	2.4	334
11	Biplot Analysis of Test Sites and Trait Relations of Soybean in Ontario. *Crop Science*, **2002**, 42, 11	2.4	138
10	Biplot Analysis of Diallel Data. *Crop Science*, **2002**, 42, 21-30	2.4	87
9	On-Farm Strip Trials vs. Replicated Performance Trials for Cultivar Evaluation. *Crop Science*, **2002**, 42, 385	2.4	20
8	Biplots of Linear-Bilinear Models for Studying Crossover Genotype Environment Interaction. *Crop Science*, **2002**, 42, 619	2.4	34
7	GGEbiplot A Windows Application for Graphical Analysis of Multienvironment Trial Data and Other Types of Two-Way Data. *Agronomy Journal*, **2001**, 93, 1111-1118	2.2	513
6	Two Types of GGE Biplots for Analyzing Multi-Environment Trial Data. *Crop Science*, **2001**, 41, 656-663	2.4	129
5	Interpretation of Genotype Environment Interaction for Winter Wheat Yield in Ontario. *Crop Science*, **2001**, 41, 19-25	2.4	151
4	Cultivar Evaluation and Mega-Environment Investigation Based on the GGE Biplot. *Crop Science*, **2000**, 40, 597-605	2.4	713
3	Simulation and Prediction of Plant Phenology for Five Crops Based on Photoperiod Temperature Interaction. *Annals of Botany*, **1998**, 81, 705-716	4.1	53
2	GGE Biplot Analysis		217
1	Exploring the relationships between biomass production, nutrient acquisition, and phenotypic traits: testing oat genotypes as a cover crop. *Journal of Plant Nutrition*,1-14	2.3	0