E Charles Brummer

List of Publications by Year
in descending order

66 papers	2,772 citations	159585 30 h-index	189892 50 g-index
68 all docs	68 docs citations	68 times ranked	2002 citing authors

#	Article	IF	Citations
1	Achievements and Challenges in Improving Temperate Perennial Forage Legumes. Critical Reviews in Plant Sciences, 2015, 34, 327-380.	5.7	191
2	Capturing Heterosis in Forage Crop Cultivar Development. Crop Science, 1999, 39, 943-954.	1.8	159
3	Theoretical Expected Genetic Gains for Amongâ€andâ€Withinâ€Family Selection Methods in Perennial Forage Crops. Crop Science, 2008, 48, 890-902.	1.8	135
4	Applied Genetics and Genomics in Alfalfa Breeding. Agronomy, 2012, 2, 40-61.	3.0	123
5	Genetic Mapping of Biomass Production in Tetraploid Alfalfa. Crop Science, 2007, 47, 1-10.	1.8	113
6	Accuracy of genomic selection for alfalfa biomass yield in different reference populations. BMC Genomics, 2015, 16, 1020.	2.8	109
7	Five Decades of Alfalfa Cultivar Improvement: Impact on Forage Yield, Persistence, and Nutritive Value. Crop Science, 2006, 46, 902-909.	1.8	105
8	A Saturated Genetic Linkage Map of Autotetraploid Alfalfa (Medicago sativa L.) Developed Using Genotyping-by-Sequencing Is Highly Syntenous with the Medicago truncatula Genome. G3: Genes, Genomes, Genetics, 2014, 4, 1971-1979.	1.8	103
9	Genome-Wide Association Mapping and Genomic Selection for Alfalfa (Medicago sativa) Forage Quality Traits. PLoS ONE, 2017, 12, e0169234.	2.5	103
10	Forage Yield Heterosis in Alfalfa. Crop Science, 2002, 42, 716-723.	1.8	87
11	Title is missing!. Euphytica, 2003, 131, 37-45.	1.2	86
12	Reexamining the Relationship between Fall Dormancy and Winter Hardiness in Alfalfa. Crop Science, 2000, 40, 971-977.	1.8	82
13	Alfalfa Winter Hardiness: A Research Retrospective and Integrated Perspective*. Advances in Agronomy, 2006, 90, 203-265.	5.2	79
14	Genomic Prediction of Biomass Yield in Two Selection Cycles of a Tetraploid Alfalfa Breeding Population. Plant Genome, 2015, 8, eplantgenome2014.12.0090.	2.8	77
15	Development of an Alfalfa SNP Array and Its Use to Evaluate Patterns of Population Structure and Linkage Disequilibrium. PLoS ONE, 2014, 9, e84329.	2.5	71
16	Association Mapping of Biomass Yield and Stem Composition in a Tetraploid Alfalfa Breeding Population. Plant Genome, 2011, 4, .	2.8	64
17	Genetic Mapping Forage Yield, Plant Height, and Regrowth at Multiple Harvests in Tetraploid Alfalfa (Medicago sativa L.). Crop Science, 2007, 47, 11-18.	1.8	62
18	Diversity, Stability, and Sustainable American Agriculture. Agronomy Journal, 1998, 90, 1-2.	1.8	60

#	Article	IF	Citations
19	Identification of loci controlling forage yield and nutritive value in diploid alfalfa using GBS-GWAS. Theoretical and Applied Genetics, 2017, 130, 261-268.	3.6	58
20	Marker imputation efficiency for genotyping-by-sequencing data in rice (Oryza sativa) and alfalfa (Medicago sativa). Molecular Breeding, 2016, 36, 1.	2.1	57
21	Identification of quantitative trait loci controlling winter hardiness in an annualÂÃ—Âperennial ryegrass interspecific hybrid population. Molecular Breeding, 2007, 19, 125-136.	2.1	54
22	Prevalence of segregation distortion in diploid alfalfa and its implications for genetics and breeding applications. Theoretical and Applied Genetics, 2011, 123, 667-679.	3.6	53
23	Prevalence of single nucleotide polymorphism among 27 diverse alfalfa genotypes as assessed by transcriptome sequencing. BMC Genomics, 2012, 13, 568.	2.8	52
24	Ploidy Determination of Alfalfa Germplasm Accessions Using Flow Cytometry. Crop Science, 1999, 39, 1202-1207.	1.8	47
25	Forage Yield Heterosis in Alfalfa. Crop Science, 2002, 42, 716.	1.8	47
26	Heterosis of Agronomic Traits in Alfalfa. Crop Science, 2002, 42, 1081-1087.	1.8	42
27	Patterns of linkage disequilibrium and association mapping in diploid alfalfa (M. sativa L.). Theoretical and Applied Genetics, 2012, 125, 577-590.	3.6	41
28	Mapping Fall Dormancy and Winter Injury in Tetraploid Alfalfa. Crop Science, 2015, 55, 1995-2011.	1.8	36
29	Heterosis of Forage Quality in Alfalfa. Crop Science, 2002, 42, 1088-1093.	1.8	33
30	Improving Winter Hardiness in Nondormant Alfalfa Germplasm. Crop Science, 2005, 45, cropsci2005.0060.	1.8	32
31	Applying Genomics to Alfalfa Breeding Programs. Crop Science, 2004, 44, 1904-1907.	1.8	31
32	Genetic Mapping of Persistence in Tetraploid Alfalfa. Crop Science, 2008, 48, 1780-1786.	1.8	29
33	Assessment of Cultivar Distinctness in Alfalfa: A Comparison of Genotypingâ€byâ€Sequencing, Simpleâ€Sequence Repeat Marker, and Morphophysiological Observations. Plant Genome, 2016, 9, plantgenome2015.10.0105.	2.8	29
34	Characterization of flowering time and SSR marker analysis of spring and winter type Brassica napus L. germplasm. Euphytica, 2006, 153, 43-57.	1.2	28
35	Identification of Aluminum Tolerance Quantitative Trait Loci in Tetraploid Alfalfa. Crop Science, 2013, 53, 148-163.	1.8	28
36	Genetic Variation of RAPD Markers for North American White Clover Collections and Cultivars. Crop Science, 2002, 42, 343-347.	1.8	24

#	Article	IF	Citations
37	Screening Methods for Aluminum Tolerance in Alfalfa. Crop Science, 2012, 52, 161-167.	1.8	22
38	Characterization and preâ€breeding of diverse alfalfa wild relatives originating from droughtâ€stressed environments. Crop Science, 2021, 61, 69-88.	1.8	21
39	Emergence and Survival of Legumes Seeded into Pastures Varying in Landscape Position. Crop Science, 2004, 44, 227-233.	1.8	20
40	Genetic Diversity and Population Structure of Tetraploid Accessions of the Medicago sativaâ€“falcata Complex. Crop Science, 2016, 56, 1146-1156.	1.8	17
41	QTL analyses of fiber components and crude protein in an annualÂÃ—Âperennial ryegrass interspecific hybrid population. Molecular Breeding, 2006, 18, 327-340.	2.1	16
42	Genetic Variation of RAPD Markers for North American White Clover Collections and Cultivars. Crop Science, 2002, 42, 343.	1.8	16
43	Persistence and Yield Stability of Intersubspecific Alfalfa Hybrids. Crop Science, 2006, 46, 1058-1063.	1.8	15
44	Morphological variation of Medicago sativa subsp. falcata genotypes and their hybrid progeny. Euphytica, 2004, 138, 1-12.	1.2	14
45	Response of Six Alfalfa Populations to Selection under Laboratory Conditions for Germination and Seedling Vigor at Low Temperatures. Crop Science, 2000, 40, 959-964.	1.8	12
46	Selection Mapping Identifies Loci Underpinning Autumn Dormancy in Alfalfa (Medicago sativa). G3: Genes, Genomes, Genetics, 2018, 8, 461-468.	1.8	12
47	Cool-Season Forages. CSSA Special Publication - Crop Science Society of America, 0, , 33-51.	0.1	11
48	Evaluation of Two Transgenes for Aluminum Tolerance in Alfalfa. Crop Science, 2013, 53, 1581-1588.	1.8	9
49	Annual and perennial Medicago show signatures of parallel adaptation to climate and soil in highly conserved genes. Molecular Ecology, 2021, 30, 4448-4465.	3.9	9
50	Integrating evolutionary potential and ecological function into agricultural seed production to meet demands for the decade of restoration. Restoration Ecology, 0, , e13543.	2.9	7
51	Emergence and Survival of Legumes Seeded into Pastures Varying in Landscape Position. Crop Science, 2004, 44, 227.	1.8	7
52	Field Response to Selection in Alfalfa for Germination Rate and Seedling Vigor at Low Temperatures. Crop Science, 2000, 40, 1227-1232.	1.8	6
53	Analysis of bulked and redundant accessions of Brassica germplasm using assignment tests of microsatellite markers. Euphytica, 2006, 152, 339-349.	1.2	4
54	Comparison of Two Selection Methods for Tolerance to Acidic, Aluminumâ€rich Soil in Alfalfa. Crop Science, 2015, 55, 1891-1899.	1.8	3

#	Article	IF	Citations
55	Registration of â€˜UC Southwest Goldâ€™ heirloomâ€like gold and white mottled bean. Journal of Plant Registrations, 2021, 15, 48-52.	0.5	3
56	Registration of â€˜UC Southwest Redâ€™ heirloomâ€like red and white mottled bean. Journal of Plant Registrations, 2021, 15, 21-27.	0.5	3
57	Registration of â€˜UC Rio Zapeâ€™ heirloomâ€like dry bean. Journal of Plant Registrations, 2021, 15, 37-42.	0.5	3
58	Registration of â€˜UC Sunriseâ€™ heirloomâ€like orange and white mottled bean. Journal of Plant Registrations, 2021, 15, 43-47.	0.5	3
59	Molecular and Cellular Technologies in Forage Improvement: An Overview. CSSA Special Publication - Crop Science Society of America, 0, , 1-10.	0.1	2
60	Registration of â€˜UC Tiger's Eyeâ€™ heirloomâ€like dry bean. Journal of Plant Registrations, 2021, 15, 16-20.	0.5	2
61	Grazing-Tolerant Alfalfa Cultivars have Superior Persistence under Continuous and Rotational Stocking. Forage and Grazinglands, 2006, 4, 1-5.	0.2	2
62	Early Detection of the Spinach Downy Mildew Pathogen in Leaves by Recombinase Polymerase Amplification. Plant Disease, 2022, 106, 1793-1802.	1.4	2
63	Making Our Science Interesting and Fun. CSA News, 2017, 62, 24-24.	0.0	0
64	Making the World a Better Place. CSA News, 2017, 62, 36-36.	0.0	0
65	Why Are You a Member of CSSA?. CSA News, 2017, 62, 20-21.	0.0	0
66	Making Our Science Accessible to the Public. CSA News, 2017, 62, 20-20.	0.0	0