

E Charles Brummer

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Early Detection of the Spinach Downy Mildew Pathogen in Leaves by Recombinase Polymerase Amplification. <i>Plant Disease</i> , 2022, 106, 1793-1802. | 1.4 | 2 |
| 2 | Characterization and pre-breeding of diverse alfalfa wild relatives originating from drought-stressed environments. <i>Crop Science</i> , 2021, 61, 69-88. | 1.8 | 21 |
| 3 | Registration of "UC Southwest Gold" heirloom-like gold and white mottled bean. <i>Journal of Plant Registrations</i> , 2021, 15, 48-52. | 0.5 | 3 |
| 4 | Registration of "UC Tiger's Eye" heirloom-like dry bean. <i>Journal of Plant Registrations</i> , 2021, 15, 16-20. | 0.5 | 2 |
| 5 | Registration of "UC Southwest Red" heirloom-like red and white mottled bean. <i>Journal of Plant Registrations</i> , 2021, 15, 21-27. | 0.5 | 3 |
| 6 | Registration of "UC Rio Zape" heirloom-like dry bean. <i>Journal of Plant Registrations</i> , 2021, 15, 37-42. | 0.5 | 3 |
| 7 | Registration of "UC Sunrise" heirloom-like orange and white mottled bean. <i>Journal of Plant Registrations</i> , 2021, 15, 43-47. | 0.5 | 3 |
| 8 | Annual and perennial <i>Medicago</i> show signatures of parallel adaptation to climate and soil in highly conserved genes. <i>Molecular Ecology</i> , 2021, 30, 4448-4465. | 3.9 | 9 |
| 9 | Selection Mapping Identifies Loci Underpinning Autumn Dormancy in Alfalfa (<i>Medicago sativa</i>). <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 461-468. | 1.8 | 12 |
| 10 | Identification of loci controlling forage yield and nutritive value in diploid alfalfa using GBS-GWAS. <i>Theoretical and Applied Genetics</i> , 2017, 130, 261-268. | 3.6 | 58 |
| 11 | Making Our Science Interesting and Fun. <i>CSA News</i> , 2017, 62, 24-24. | 0.0 | 0 |
| 12 | Making the World a Better Place. <i>CSA News</i> , 2017, 62, 36-36. | 0.0 | 0 |
| 13 | Why Are You a Member of CSSA?. <i>CSA News</i> , 2017, 62, 20-21. | 0.0 | 0 |
| 14 | Making Our Science Accessible to the Public. <i>CSA News</i> , 2017, 62, 20-20. | 0.0 | 0 |
| 15 | Genome-Wide Association Mapping and Genomic Selection for Alfalfa (<i>Medicago sativa</i>) Forage Quality Traits. <i>PLoS ONE</i> , 2017, 12, e0169234. | 2.5 | 103 |
| 16 | Genetic Diversity and Population Structure of Tetraploid Accessions of the <i>Medicago sativa</i> "falcata" Complex. <i>Crop Science</i> , 2016, 56, 1146-1156. | 1.8 | 17 |
| 17 | Assessment of Cultivar Distinctness in Alfalfa: A Comparison of Genotyping-by-Sequencing, Simple Sequence Repeat Marker, and Morphophysiological Observations. <i>Plant Genome</i> , 2016, 9, plantgenome2015.10.0105. | 2.8 | 29 |
| 18 | Marker imputation efficiency for genotyping-by-sequencing data in rice (<i>Oryza sativa</i>) and alfalfa (<i>Medicago sativa</i>). <i>Molecular Breeding</i> , 2016, 36, 1. | 2.1 | 57 |

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|----|---|-----|-----------|
| 19 | Genomic Prediction of Biomass Yield in Two Selection Cycles of a Tetraploid Alfalfa Breeding Population. <i>Plant Genome</i> , 2015, 8, eplantgenome2014.12.0090. | 2.8 | 77 |
| 20 | Mapping Fall Dormancy and Winter Injury in Tetraploid Alfalfa. <i>Crop Science</i> , 2015, 55, 1995-2011. | 1.8 | 36 |
| 21 | Comparison of Two Selection Methods for Tolerance to Acidic, Aluminum-rich Soil in Alfalfa. <i>Crop Science</i> , 2015, 55, 1891-1899. | 1.8 | 3 |
| 22 | Accuracy of genomic selection for alfalfa biomass yield in different reference populations. <i>BMC Genomics</i> , 2015, 16, 1020. | 2.8 | 109 |
| 23 | Achievements and Challenges in Improving Temperate Perennial Forage Legumes. <i>Critical Reviews in Plant Sciences</i> , 2015, 34, 327-380. | 5.7 | 191 |
| 24 | A Saturated Genetic Linkage Map of Autotetraploid Alfalfa (<i>Medicago sativa</i> L.) Developed Using Genotyping-by-Sequencing Is Highly Syntenous with the <i>Medicago truncatula</i> Genome. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1971-1979. | 1.8 | 103 |
| 25 | Development of an Alfalfa SNP Array and Its Use to Evaluate Patterns of Population Structure and Linkage Disequilibrium. <i>PLoS ONE</i> , 2014, 9, e84329. | 2.5 | 71 |
| 26 | Identification of Aluminum Tolerance Quantitative Trait Loci in Tetraploid Alfalfa. <i>Crop Science</i> , 2013, 53, 148-163. | 1.8 | 28 |
| 27 | Evaluation of Two Transgenes for Aluminum Tolerance in Alfalfa. <i>Crop Science</i> , 2013, 53, 1581-1588. | 1.8 | 9 |
| 28 | Screening Methods for Aluminum Tolerance in Alfalfa. <i>Crop Science</i> , 2012, 52, 161-167. | 1.8 | 22 |
| 29 | Prevalence of single nucleotide polymorphism among 27 diverse alfalfa genotypes as assessed by transcriptome sequencing. <i>BMC Genomics</i> , 2012, 13, 568. | 2.8 | 52 |
| 30 | Applied Genetics and Genomics in Alfalfa Breeding. <i>Agronomy</i> , 2012, 2, 40-61. | 3.0 | 123 |
| 31 | Patterns of linkage disequilibrium and association mapping in diploid alfalfa (<i>M. sativa</i> L.). <i>Theoretical and Applied Genetics</i> , 2012, 125, 577-590. | 3.6 | 41 |
| 32 | Association Mapping of Biomass Yield and Stem Composition in a Tetraploid Alfalfa Breeding Population. <i>Plant Genome</i> , 2011, 4, . | 2.8 | 64 |
| 33 | Prevalence of segregation distortion in diploid alfalfa and its implications for genetics and breeding applications. <i>Theoretical and Applied Genetics</i> , 2011, 123, 667-679. | 3.6 | 53 |
| 34 | Genetic Mapping of Persistence in Tetraploid Alfalfa. <i>Crop Science</i> , 2008, 48, 1780-1786. | 1.8 | 29 |
| 35 | Theoretical Expected Genetic Gains for Among- and Within-Family Selection Methods in Perennial Forage Crops. <i>Crop Science</i> , 2008, 48, 890-902. | 1.8 | 135 |
| 36 | Genetic Mapping of Biomass Production in Tetraploid Alfalfa. <i>Crop Science</i> , 2007, 47, 1-10. | 1.8 | 113 |

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|----|--|-----|-----------|
| 37 | Genetic Mapping Forage Yield, Plant Height, and Regrowth at Multiple Harvests in Tetraploid Alfalfa (<i>Medicago sativa</i> L.). <i>Crop Science</i> , 2007, 47, 11-18. | 1.8 | 62 |
| 38 | Identification of quantitative trait loci controlling winter hardiness in an annual–perennial ryegrass interspecific hybrid population. <i>Molecular Breeding</i> , 2007, 19, 125-136. | 2.1 | 54 |
| 39 | Persistence and Yield Stability of Intersubspecific Alfalfa Hybrids. <i>Crop Science</i> , 2006, 46, 1058-1063. | 1.8 | 15 |
| 40 | Analysis of bulked and redundant accessions of Brassica germplasm using assignment tests of microsatellite markers. <i>Euphytica</i> , 2006, 152, 339-349. | 1.2 | 4 |
| 41 | Characterization of flowering time and SSR marker analysis of spring and winter type Brassica napus L. germplasm. <i>Euphytica</i> , 2006, 153, 43-57. | 1.2 | 28 |
| 42 | QTL analyses of fiber components and crude protein in an annual–perennial ryegrass interspecific hybrid population. <i>Molecular Breeding</i> , 2006, 18, 327-340. | 2.1 | 16 |
| 43 | Five Decades of Alfalfa Cultivar Improvement: Impact on Forage Yield, Persistence, and Nutritive Value. <i>Crop Science</i> , 2006, 46, 902-909. | 1.8 | 105 |
| 44 | Alfalfa Winter Hardiness: A Research Retrospective and Integrated Perspective*. <i>Advances in Agronomy</i> , 2006, 90, 203-265. | 5.2 | 79 |
| 45 | Grazing-Tolerant Alfalfa Cultivars have Superior Persistence under Continuous and Rotational Stocking. <i>Forage and Grazinglands</i> , 2006, 4, 1-5. | 0.2 | 2 |
| 46 | Improving Winter Hardiness in Nondormant Alfalfa Germplasm. <i>Crop Science</i> , 2005, 45, cropsci2005.0060. | 1.8 | 32 |
| 47 | Applying Genomics to Alfalfa Breeding Programs. <i>Crop Science</i> , 2004, 44, 1904-1907. | 1.8 | 31 |
| 48 | Emergence and Survival of Legumes Seeded into Pastures Varying in Landscape Position. <i>Crop Science</i> , 2004, 44, 227-233. | 1.8 | 20 |
| 49 | Morphological variation of <i>Medicago sativa</i> subsp. <i>falcata</i> genotypes and their hybrid progeny. <i>Euphytica</i> , 2004, 138, 1-12. | 1.2 | 14 |
| 50 | Emergence and Survival of Legumes Seeded into Pastures Varying in Landscape Position. <i>Crop Science</i> , 2004, 44, 227. | 1.8 | 7 |
| 51 | Title is missing!. <i>Euphytica</i> , 2003, 131, 37-45. | 1.2 | 86 |
| 52 | Genetic Variation of RAPD Markers for North American White Clover Collections and Cultivars. <i>Crop Science</i> , 2002, 42, 343-347. | 1.8 | 24 |
| 53 | Heterosis of Agronomic Traits in Alfalfa. <i>Crop Science</i> , 2002, 42, 1081-1087. | 1.8 | 42 |
| 54 | Forage Yield Heterosis in Alfalfa. <i>Crop Science</i> , 2002, 42, 716-723. | 1.8 | 87 |

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|----|---|-----|-----------|
| 55 | Heterosis of Forage Quality in Alfalfa. <i>Crop Science</i> , 2002, 42, 1088-1093. | 1.8 | 33 |
| 56 | Genetic Variation of RAPD Markers for North American White Clover Collections and Cultivars. <i>Crop Science</i> , 2002, 42, 343. | 1.8 | 16 |
| 57 | Forage Yield Heterosis in Alfalfa. <i>Crop Science</i> , 2002, 42, 716. | 1.8 | 47 |
| 58 | Response of Six Alfalfa Populations to Selection under Laboratory Conditions for Germination and Seedling Vigor at Low Temperatures. <i>Crop Science</i> , 2000, 40, 959-964. | 1.8 | 12 |
| 59 | Field Response to Selection in Alfalfa for Germination Rate and Seedling Vigor at Low Temperatures. <i>Crop Science</i> , 2000, 40, 1227-1232. | 1.8 | 6 |
| 60 | Reexamining the Relationship between Fall Dormancy and Winter Hardiness in Alfalfa. <i>Crop Science</i> , 2000, 40, 971-977. | 1.8 | 82 |
| 61 | Ploidy Determination of Alfalfa Germplasm Accessions Using Flow Cytometry. <i>Crop Science</i> , 1999, 39, 1202-1207. | 1.8 | 47 |
| 62 | Capturing Heterosis in Forage Crop Cultivar Development. <i>Crop Science</i> , 1999, 39, 943-954. | 1.8 | 159 |
| 63 | Diversity, Stability, and Sustainable American Agriculture. <i>Agronomy Journal</i> , 1998, 90, 1-2. | 1.8 | 60 |
| 64 | Molecular and Cellular Technologies in Forage Improvement: An Overview. <i>CSSA Special Publication - Crop Science Society of America</i> , 0, , 1-10. | 0.1 | 2 |
| 65 | Cool-Season Forages. <i>CSSA Special Publication - Crop Science Society of America</i> , 0, , 33-51. | 0.1 | 11 |
| 66 | Integrating evolutionary potential and ecological function into agricultural seed production to meet demands for the decade of restoration. <i>Restoration Ecology</i> , 0, , e13543. | 2.9 | 7 |