

Michael D Casler

List of Publications by Citations

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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.

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|--------------------|-------------------------|----------------|-----------------|
| 110 papers | 2,988 citations | 28 h-index | 52 g-index |
| 115 ext. papers | 3,684 ext. citations | 3.5 avg, IF | 5.46 L-index |

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 110 | Switchgrass genomic diversity, ploidy, and evolution: novel insights from a network-based SNP discovery protocol. <i>PLoS Genetics</i> , 2013 , 9, e1003215 | 6 | 481 |
| 109 | Chemical composition and response to dilute-acid pretreatment and enzymatic saccharification of alfalfa, reed canarygrass, and switchgrass. <i>Biomass and Bioenergy</i> , 2006 , 30, 880-891 | 5.3 | 376 |
| 108 | Quantifying Actual and Theoretical Ethanol Yields for Switchgrass Strains Using NIRS Analyses. <i>Bioenergy Research</i> , 2011 , 4, 96-110 | 3.1 | 106 |
| 107 | Theoretical Expected Genetic Gains for Among-and-Within-Family Selection Methods in Perennial Forage Crops. <i>Crop Science</i> , 2008 , 48, 890 | 2.4 | 106 |
| 106 | Switchgrass Breeding, Genetics, and Genomics. <i>Green Energy and Technology</i> , 2012 , 29-53 | 0.6 | 95 |
| 105 | Genetic Diversity, Plant Adaptation Regions, and Gene Pools for Switchgrass. <i>Crop Science</i> , 2007 , 47, 2261-2273 | 2.4 | 78 |
| 104 | Post-glacial evolution of <i>Panicum virgatum</i> : centers of diversity and gene pools revealed by SSR markers and cpDNA sequences. <i>Genetica</i> , 2011 , 139, 933-48 | 1.5 | 70 |
| 103 | Genome-size Variation in Switchgrass (<i>Panicum virgatum</i>): Flow Cytometry and Cytology Reveal Rampant Aneuploidy. <i>Plant Genome</i> , 2010 , 3, | 4.4 | 69 |
| 102 | The Switchgrass Genome: Tools and Strategies. <i>Plant Genome</i> , 2011 , 4, 273-282 | 4.4 | 68 |
| 101 | Breeding progress and preparedness for mass-scale deployment of perennial lignocellulosic biomass crops switchgrass, miscanthus, willow and poplar. <i>GCB Bioenergy</i> , 2019 , 11, 118-151 | 5.6 | 68 |
| 100 | Selection and Evaluation of Smooth Bromegrass Clones with Divergent Lignin or Etherified Ferulic Acid Concentration. <i>Crop Science</i> , 1999 , 39, 1866-1873 | 2.4 | 60 |
| 99 | Natural Hybrids and Gene Flow between Upland and Lowland Switchgrass. <i>Crop Science</i> , 2011 , 51, 2626-2641 | 2.4 | 55 |
| 98 | Selection for Biomass Yield in Upland, Lowland, and Hybrid Switchgrass. <i>Crop Science</i> , 2014 , 54, 626-636 | 2.4 | 54 |
| 97 | Genomic Selection in Forage Breeding: Accuracy and Methods. <i>Crop Science</i> , 2014 , 54, 143-156 | 2.4 | 50 |
| 96 | Fundamentals of Experimental Design: Guidelines for Designing Successful Experiments. <i>Agronomy Journal</i> , 2015 , 107, 692-705 | 2.2 | 48 |
| 95 | Accelerating the switchgrass (<i>Panicum virgatum</i> L.) breeding cycle using genomic selection approaches. <i>PLoS ONE</i> , 2014 , 9, e112227 | 3.7 | 45 |
| 94 | Changes in Mean and Genetic Variance During Two Cycles of Within-family Selection in Switchgrass. <i>Bioenergy Research</i> , 2010 , 3, 47-54 | 3.1 | 42 |

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| 93 | Genomic mechanisms of climate adaptation in polyploid bioenergy switchgrass. <i>Nature</i> , 2021 , 590, 438-444 | 5.4 | 42 |
| 92 | Population genomic variation reveals roles of history, adaptation and ploidy in switchgrass. <i>Molecular Ecology</i> , 2014 , 23, 4059-73 | 5.7 | 39 |
| 91 | Biomass Yield and Quality of Reed Canarygrass under Five Harvest Management Systems for Bioenergy Production. <i>Bioenergy Research</i> , 2011 , 4, 111-119 | 3.1 | 39 |
| 90 | The Wisconsin integrated cropping systems trial: Combining agroecology with production agronomy. <i>Renewable Agriculture and Food Systems</i> , 1995 , 10, 98-107 | | 35 |
| 89 | Diversity and population structure of northern switchgrass as revealed through exome capture sequencing. <i>Plant Journal</i> , 2015 , 84, 800-15 | 6.9 | 33 |
| 88 | Nucleotide polymorphism and copy number variant detection using exome capture and next-generation sequencing in the polyploid grass <i>Panicum virgatum</i> . <i>Plant Journal</i> , 2014 , 79, 993-1008 | 6.9 | 32 |
| 87 | Replication Concepts for Bioenergy Research Experiments. <i>Bioenergy Research</i> , 2015 , 8, 1-16 | 3.1 | 31 |
| 86 | Genome-wide associations with flowering time in switchgrass using exome-capture sequencing data. <i>New Phytologist</i> , 2017 , 213, 154-169 | 9.8 | 29 |
| 85 | Hierarchical Analysis of Switchgrass Morphology. <i>Crop Science</i> , 2005 , 45, 2465-2472 | 2.4 | 29 |
| 84 | Pasture Growth, Production, and Quality Under Rotational and Continuous Grazing Management. <i>Journal of Production Agriculture</i> , 1999 , 12, 569-577 | | 29 |
| 83 | Has selection for improved agronomic traits made reed canarygrass invasive?. <i>PLoS ONE</i> , 2011 , 6, e25753 | 3.7 | 29 |
| 82 | Switchgrass Germplasm Resources. <i>Crop Science</i> , 2015 , 55, 2463-2478 | 2.4 | 27 |
| 81 | Inheritance of Dollar Spot Resistance in Creeping Bentgrass. <i>Crop Science</i> , 2003 , 43, 2189-2196 | 2.4 | 27 |
| 80 | Seasonal Yield Distribution of Cool-Season Grasses following Winter Defoliation. <i>Agronomy Journal</i> , 2000 , 92, 974-980 | 2.2 | 27 |
| 79 | Biomass Yield of Naturalized Populations and Cultivars of Reed Canary Grass. <i>Bioenergy Research</i> , 2009 , 2, 165-173 | 3.1 | 26 |
| 78 | Accuracy of Genomic Prediction in Switchgrass (<i>Panicum virgatum</i> L.) Improved by Accounting for Linkage Disequilibrium. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 1049-62 | 3.2 | 24 |
| 77 | Selection Methods in Forage Breeding: A Quantitative Appraisal. <i>Crop Science</i> , 2013 , 53, 1925-1936 | 2.4 | 24 |
| 76 | Development of Species-Specific SCAR Markers in Bentgrass. <i>Crop Science</i> , 2003 , 43, 345 | 2.4 | 24 |

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| 75 | Forage Yield of Stockpiled Perennial Grasses in the Upper Midwest USA. <i>Agronomy Journal</i> , 2000 , 92, 740-747 | 2.2 | 22 |
| 74 | Switchgrass 2012 , 563-590 | | 22 |
| 73 | Development of Species-Specific SCAR Markers in Bentgrass. <i>Crop Science</i> , 2003 , 43, 345 | 2.4 | 22 |
| 72 | Patterns of Variation in a Collection of Meadow Fescue Accessions. <i>Crop Science</i> , 2000 , 40, 248-255 | 2.4 | 21 |
| 71 | Heterosis and Reciprocal-cross Effects in Tetraploid Switchgrass. <i>Crop Science</i> , 2014 , 54, 2063-2069 | 2.4 | 20 |
| 70 | Biomass Yield of Switchgrass Cultivars under High- versus Low-Input Conditions. <i>Crop Science</i> , 2017 , 57, 821-832 | 2.4 | 19 |
| 69 | Spatial Variation Affects Precision of Perennial Cool-Season Forage Grass Trials. <i>Agronomy Journal</i> , 1999 , 91, 75-81 | 2.2 | 19 |
| 68 | The Evolution of Switchgrass as an Energy Crop. <i>Green Energy and Technology</i> , 2012 , 1-28 | 0.6 | 19 |
| 67 | Predictive Relationships between Plant Morphological Traits and Biomass Yield in Switchgrass. <i>Crop Science</i> , 2014 , 54, 637-645 | 2.4 | 18 |
| 66 | Quantitative Trait Locus Mapping for Flowering Time in a Lowland Upland Switchgrass Pseudo-F2 Population. <i>Plant Genome</i> , 2018 , 11, 170093 | 4.4 | 18 |
| 65 | Genomic prediction of crown rust resistance in <i>Lolium perenne</i> . <i>BMC Genetics</i> , 2018 , 19, 35 | 2.6 | 17 |
| 64 | Switchgrass Harvest Time Management Can Impact Biomass Yield and Nutrient Content. <i>Crop Science</i> , 2016 , 56, 1970-1980 | 2.4 | 16 |
| 63 | Extensive Genetic Diversity is Present within North American Switchgrass Germplasm. <i>Plant Genome</i> , 2018 , 11, 170055 | 4.4 | 16 |
| 62 | Divergent Selection for Secondary Traits in Upland Tetraploid Switchgrass and Effects on Sward Biomass Yield. <i>Bioenergy Research</i> , 2014 , 7, 329-337 | 3.1 | 15 |
| 61 | Big Bluestem Gene Pools in the Central and Northeastern United States. <i>Crop Science</i> , 2012 , 52, 189-200 | 2.4 | 15 |
| 60 | Breeding for Biomass Yield in Switchgrass Using Surrogate Measures of Yield. <i>Bioenergy Research</i> , 2018 , 11, 1-12 | 3.1 | 14 |
| 59 | Performance of Meadow Fescue Accessions under Management-Intensive Grazing. <i>Crop Science</i> , 2001 , 41, 1946-1953 | 2.4 | 14 |
| 58 | Resilience, Stability, and Productivity of Alfalfa Cultivars in Rainfed Regions of North America. <i>Crop Science</i> , 2019 , 59, 800-810 | 2.4 | 13 |

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| 57 | Genomic Prediction for Winter Survival of Lowland Switchgrass in the Northern USA. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 1921-1931 | 3.2 | 12 |
| 56 | Quantitative Trait Loci for Freezing Tolerance in a Lowland x Upland Switchgrass Population. <i>Frontiers in Plant Science</i> , 2019 , 10, 372 | 6.2 | 12 |
| 55 | Nitrogen Fertilization Management of Switchgrass, Miscanthus and Giant Reed: A Review. <i>Advances in Agronomy</i> , 2019 , 153, 87-119 | 7.7 | 12 |
| 54 | Using variable importance measures to identify a small set of SNPs to predict heading date in perennial ryegrass. <i>Scientific Reports</i> , 2017 , 7, 3566 | 4.9 | 11 |
| 53 | Plant Mortality and Natural Selection May Increase Biomass Yield in Switchgrass Swards. <i>Crop Science</i> , 2013 , 53, 500-506 | 2.4 | 10 |
| 52 | Efficiency of Indirect Selection for Dry Matter Yield Based on Fresh Matter Yield in Perennial Ryegrass Sward Plots. <i>Crop Science</i> , 2008 , 48, 127-133 | 2.4 | 10 |
| 51 | Meadow Fescue, Tall Fescue, and Orchardgrass Response to Nitrogen Application Rate. <i>Forage and Grazinglands</i> , 2009 , 7, 1-12 | | 10 |
| 50 | Impact of Harvest Time and Switchgrass Cultivar on Sugar Release Through Enzymatic Hydrolysis. <i>Bioenergy Research</i> , 2017 , 10, 377-387 | 3.1 | 9 |
| 49 | Genome-wide association study based on multiple imputation with low-depth sequencing data: application to biofuel traits in reed canarygrass. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 891-909 | 3.2 | 9 |
| 48 | Transcriptional Analysis of Flowering Time in Switchgrass. <i>Bioenergy Research</i> , 2017 , 10, 700-713 | 3.1 | 9 |
| 47 | Establishment of Temperate Pasture Species into Alfalfa by Frost-Seeding. <i>Agronomy Journal</i> , 1999 , 91, 916-921 | 2.2 | 9 |
| 46 | Genetic diversity and population structure of Eurasian populations of reed canarygrass: cytotypes, cultivars, and interspecific hybrids. <i>Crop and Pasture Science</i> , 2011 , 62, 982 | 2.2 | 9 |
| 45 | Genome-Wide Association Study in Pseudo-F Populations of Switchgrass Identifies Genetic Loci Affecting Heading and Anthesis Dates. <i>Frontiers in Plant Science</i> , 2018 , 9, 1250 | 6.2 | 9 |
| 44 | Inheritance of Secondary Morphological Traits for Among-and-Within-Family Selection in Upland Tetraploid Switchgrass. <i>Crop Science</i> , 2014 , 54, 646-653 | 2.4 | 8 |
| 43 | Forage Yield Precision, Experimental Design, and Cultivar Mean Separation for Alfalfa Cultivar Trials. <i>Agronomy Journal</i> , 2000 , 92, 1064-1071 | 2.2 | 8 |
| 42 | Cool-Season Forages. <i>CSSA Special Publication - Crop Science Society of America</i> , 2015 , 33-51 | | 6 |
| 41 | Biochemical processing of reed canarygrass into fuel ethanol. <i>International Journal of Low-Carbon Technologies</i> , 2012 , 7, 338-347 | 2.8 | 6 |
| 40 | Frost Seeding into Aging Alfalfa Stands. <i>Agronomy Journal</i> , 2001 , 93, 609-619 | 2.2 | 6 |

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| 39 | Impact of Harvest Time and Cultivar on Conversion of Switchgrass to Bio-oils Via Fast Pyrolysis. <i>Bioenergy Research</i> , 2017 , 10, 388-399 | 3.1 | 5 |
| 38 | Legume Addition to Perennial Warm-Season Grass Swards Increases Harvested Biomass. <i>Crop Science</i> , 2017 , 57, 3343-3351 | 2.4 | 5 |
| 37 | Switchgrass 2014 , 75-89 | | 5 |
| 36 | Chemistry and Microbial Functional Diversity Differences in Biofuel Crop and Grassland Soils in Multiple Geographies. <i>Bioenergy Research</i> , 2013 , 6, 601-619 | 3.1 | 5 |
| 35 | Registration of Bidden Valley Meadow Fescue. <i>Journal of Plant Registrations</i> , 2015 , 9, 294-298 | 0.7 | 5 |
| 34 | Genetic Variability for Biofuel Traits in a Circumglobal Reed Canarygrass Collection. <i>Crop Science</i> , 2013 , 53, 524-531 | 2.4 | 5 |
| 33 | Selection for Winter Survivorship in Lowland Switchgrass. <i>Bioenergy Research</i> , 2020 , 13, 109-119 | 3.1 | 4 |
| 32 | Registration of Azov Meadow Fescue. <i>Journal of Plant Registrations</i> , 2017 , 11, 9-14 | 0.7 | 4 |
| 31 | Grass Yield and Quality Affect Potential Stocking Rate and Milk Production. <i>Forage and Grazinglands</i> , 2008 , 6, 1 | | 4 |
| 30 | Selection for Flowering Time as a Mechanism to Increase Biomass Yield of Upland Switchgrass. <i>Bioenergy Research</i> , 2020 , 13, 100-108 | 3.1 | 4 |
| 29 | Competitive effects of cultivar and wild switchgrass on other native grasses. <i>Biological Invasions</i> , 2018 , 20, 2439-2449 | 2.7 | 4 |
| 28 | Extensions of BLUP Models for Genomic Prediction in Heterogeneous Populations: Application in a Diverse Switchgrass Sample. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 789-805 | 3.2 | 3 |
| 27 | Switchgrass Biomass Composition Traits and their Effects on its Digestion by Ruminants and Bioconversion to Ethanol. <i>Crop Science</i> , 2017 , 57, 275-281 | 2.4 | 3 |
| 26 | Reed Canary Grass 2018 , 153-173 | | 3 |
| 25 | An Approach to Reduce the Time Required for Bean Yield Evaluation in Coffee Breeding. <i>Crop Science</i> , 1993 , 33, 448-452 | 2.4 | 3 |
| 24 | Identification of Quantitative Trait Loci for Plant Height, Crown Diameter, and Plant Biomass in a Pseudo-F2 Population of Switchgrass. <i>Bioenergy Research</i> , 2019 , 12, 267-274 | 3.1 | 2 |
| 23 | Insecticide Applications have Minor Effects on Switchgrass Biomass Yield. <i>Agronomy Journal</i> , 2015 , 107, 2031-2037 | 2.2 | 2 |
| 22 | Conservation implications of the introduction history of meadow fescue (<i>Festuca pratensis</i> Huds.) to the Driftless Area of the Upper Mississippi Valley, USA. <i>Plant Ecology and Diversity</i> , 2015 , 8, 91-99 | 2.2 | 2 |

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| 21 | Partial Decomposition of the Genetic Correlation between Forage Yield and Fiber Using Semihybrids. <i>Crop Science</i> , 2013 , 53, 1403-1411 | 2.4 | 2 |
| 20 | Biofuels, Bioenergy, and Bioproducts from Sustainable Agricultural and Forest Crops. <i>Bioenergy Research</i> , 2009 , 2, 77-78 | 3.1 | 2 |
| 19 | DOE Bioenergy Center Special Issue: The Great Lakes Bioenergy Research Center (GLBRC). <i>Bioenergy Research</i> , 2010 , 3, 1-2 | 3.1 | 2 |
| 18 | Nitrogen Demand Associated with Increased Biomass Yield of Switchgrass and Big Bluestem: Implications for Future Breeding Strategies. <i>Bioenergy Research</i> , 2020 , 13, 120-131 | 3.1 | 2 |
| 17 | Selection Signatures in Four Lignin Genes from Switchgrass Populations Divergently Selected for In Vitro Dry Matter Digestibility. <i>PLoS ONE</i> , 2016 , 11, e0167005 | 3.7 | 2 |
| 16 | Transcriptome profiling reveals differentially expressed genes associated with flowering time in contrasting switchgrass genotypes. <i>Crop Science</i> , 2020 , 60, 1472-1487 | 2.4 | 1 |
| 15 | Can Biomass Yield of Switchgrass be Increased without Increasing Nitrogen Requirements?. <i>Crop Science</i> , 2017 , 57, 2024-2031 | 2.4 | 1 |
| 14 | Chapter 4: Power and Replication Designing Powerful Experiments. <i>ACSESS Publications</i> , 2018 , | | 1 |
| 13 | Designing Selection Criteria for Use of Reed Canarygrass as a Bioenergy Feedstock. <i>Crop Science</i> , 2015 , 55, 2130-2137 | 2.4 | 1 |
| 12 | Blocking Principles for Biological Experiments. <i>Assa, Cssa and Sssa</i> , 53-72 | 0.3 | 1 |
| 11 | Extensions of BLUP models for genomic prediction in heterogeneous populations: Application in a diverse switchgrass sample | | 1 |
| 10 | Biomass Yield Evaluation for Switchgrass Breeding: Seeded Swards vs. Transplanted Plots Yield Different Results. <i>Bioenergy Research</i> , 2020 , 1 | 3.1 | 1 |
| 9 | Regional Gene Pools for Restoration, Conservation, and Genetic Improvement of Prairie Grasses 2014 , 67-80 | | 1 |
| 8 | Subsampling and DNA pooling can increase gains through genomic selection in switchgrass. <i>Plant Genome</i> , 2021 , 14, e20149 | 4.4 | 0 |
| 7 | Genetic loci associated with winter survivorship in diverse lowland switchgrass populations. <i>Plant Genome</i> , 2021 , 14, e20159 | 4.4 | 0 |
| 6 | Agronomic fitness of three temperate forage grasses divergently selected for lignin concentration or ferulate cross-linking. <i>Euphytica</i> , 2021 , 217, 1 | 2.1 | 0 |
| 5 | Nitrogen Fertilization and Harvest Management of Switchgrass: Impacts on Biomass Yield and Nitrogen Removal. <i>Bioenergy Research</i> , 1 | 3.1 | 0 |
| 4 | Genomic Prediction of Complex Traits in Forage Plants Species: Perennial Grasses Case.. <i>Methods in Molecular Biology</i> , 2022 , 2467, 521-541 | 1.4 | 0 |

3 Native Grass Species for Forage and Turf **2019**, 579-605

2 Cool-Season Grasses for Humid Areas **2020**, 297-311

1 Power and Replication **Designing Powerful Experiments. Assa, Cssa and Sssa**, 73-83

0.3