Matthew H Langholtz

List of Publications by Year
in descending order

73 papers	13,405 citations	94381 37 h-index	85498 71 g-index
80 all docs	80 docs citations	80 times ranked	16693 citing authors

#	Article	IF	Citations
1	Increasing drought under global warming in observations and models. Nature Climate Change, 2013, 3, 52-58.	8.1	3,342
2	Drought under global warming: a review. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 45-65.	3.6	2,354
3	Perception of climate change. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2415-23.	3.3	1,056
4	Projected changes in drought occurrence under future global warming from multi-model, multi-scenario, IPCC AR4 simulations. Climate Dynamics, 2008, 31, 79-105.	1.7	925
5	Designing sorghum as a dedicated bioenergy feedstock. Biofuels, Bioproducts and Biorefining, 2007, 1, 147-157.	1.9	539
6	Agricultural drought in a future climate: results from 15 global climate models participating in the IPCC 4th assessment. Climate Dynamics, 2005, 25, 739-753.	1.7	298
7	Challenges in Scaling Up Biofuels Infrastructure. Science, 2010, 329, 793-796.	6.0	271
8	Biomass Production in Switchgrass across the United States: Database Description and Determinants of Yield. Agronomy Journal, 2010, 102, 1158-1168.	0.9	232
9	Effect of Fire and Drought on the Ecophysiology of Andropogon gerardii and Panicum virgatum in a Tallgrass Prairie. Ecology, 1985, 66, 1309-1320.	1.5	221
10	Evaluating Uncertainties in the Projection of Future Drought. Journal of Hydrometeorology, 2008, 9, 292-299.	0.7	219
11	Seasonal and Inter-Annual Climate Forecasting: The New Tool for Increasing Preparedness to Climate Variability and Change In Agricultural Planning And Operations. Climatic Change, 2005, 70, 221-253.	1.7	215
12	Seasonal changes in depth of water uptake for encroaching trees Juniperus virginiana and Pinus ponderosa and two dominant C4 grasses in a semiarid grassland. Tree Physiology, 2008, 29, 157-169.	1.4	204
13	An economic and environmental comparison of a biochemical and a thermochemical lignocellulosic ethanol conversion processes. Cellulose, 2009, 16, 547-565.	2.4	176
14	Root distribution and soil moisture retrieval in perennial and annual energy crops in Northern Italy. Agriculture, Ecosystems and Environment, 2009, 132, 252-259.	2.5	168
15	Switchgrass production for the upper southeastern USA: Influence of cultivar and cutting frequency on biomass yields. Biomass and Bioenergy, 2006, 30, 207-213.	2.9	166
16	Indicators for assessing socioeconomic sustainability of bioenergy systems: A short list of practical measures. Ecological Indicators, 2013, 26, 87-102.	2.6	166
17	Screening Miscanthus genotypes in field trials to optimise biomass yield and quality in Southern Germany. European Journal of Agronomy, 2002, 16, 97-110.	1.9	147
18	Tolerance of switchgrass to extreme soil moisture stress: Ecological implications. Plant Science, 2009, 177, 724-732.	1.7	147

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19	Is the choice of renewable portfolio standards random?. Energy Policy, 2007, 35, 5571-5575.	4.2	146
20	Breeding Maize for a Bioeconomy: A Literature Survey Examining Harvest Index and Stover Yield and Their Relationship to Grain Yield. Crop Science, 2010, 50, 1-12.	0.8	134
21	Adaptation science for agriculture and natural resource management â€" urgency and theoretical basis. Current Opinion in Environmental Sustainability, 2009, 1, 69-76.	3.1	127
22	Associations between Grain Crop Yields in Central-Eastern Argentina and El NiÃ±oâ€"Southern Oscillation. Journal of Applied Meteorology and Climatology, 1999, 38, 1488-1498.	1.7	107
23	Comparison of growth and performance in upland and lowland switchgrass types to water and nitrogen stress. Bioresource Technology, 2003, 86, 65-72.	4.8	106
24	Projections of Future Drought in the Continental United States and Mexico. Journal of Hydrometeorology, 2011, 12, 1359-1377.	0.7	105
25	Agricultural Reference Index for Drought (ARID). Agronomy Journal, 2012, 104, 287-300.	0.9	103
26	Second generation bioenergy crops and climate change: a review of the effects of elevated atmospheric CO₂ and drought on water use and the implications for yield. GCB Bioenergy, 2009, 1, 97-114.	2.5	98
27	Switchgrass simulation by the ALMANAC model at diverse sites in the southern US. Biomass and Bioenergy, 2005, 29, 419-425.	2.9	92
28	The potential impacts of biomass feedstock production on water resource availability. Bioresource Technology, 2010, 101, 2014-2025.	4.8	85
29	Participatory design of agricultural decision support tools: taking account of the use situations. Agronomy for Sustainable Development, 2012, 32, 899-910.	2.2	83
30	Stakeholder Networks: Improving Seasonal Climate Forecasts. Climatic Change, 2004, 65, 73-101.	1.7	79
31	Is UK biofuel supply from <i>Miscanthus</i> waterâ€limited?. Soil Use and Management, 2008, 24, 235-245.	2.6	77
32	Biomass Production of Switchgrass in Central South Dakota. Crop Science, 2005, 45, 2583.	0.8	75
33	Enhancement of Switchgrass (Panicum virgatum L.) Biomass Production under Drought Conditions by the Ectomycorrhizal Fungus Sebacina vermifera. Applied and Environmental Microbiology, 2011, 77, 7063-7067.	1.4	75
34	Investigation of biochemical biorefinery sizing and environmental sustainability impacts for conventional bale system and advanced uniform biomass logistics designs. Biofuels, Bioproducts and Biorefining, 2013, 7, 282-302.	1.9	73
35	User perspectives of climate forecasts: crop producers in Pergamino, Argentina. Climate Research, 2001, 19, 57-67.	0.4	57
36	Gas exchange, biomass partition, and water relationships of three grass seedlings under water stress. Weed Biology and Management, 2006, 6, 79-88.	0.6	47

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37	Price projections of feedstocks for biofuels and biopower in the U.S.. Energy Policy, 2012, 41, 484-493.	4.2	41
38	Investigation of thermochemical biorefinery sizing and environmental sustainability impacts for conventional supply system and distributed preâ€processing supply system designs. Biofuels, Bioproducts and Biorefining, 2014, 8, 545-567.	1.9	40
39	Socioeconomic indicators for sustainable design and commercial development of algal biofuel systems. GCB Bioenergy, 2017, 9, 1005-1023.	2.5	37
40	Climate risk management for the U.S. cellulosic biofuels supply chain. Climate Risk Management, 2014, 3, 96-115.	1.5	36
41	The updated billion-ton resource assessment. Biomass and Bioenergy, 2014, 70, 149-164.	2.9	36
42	Lignin-Derived Carbon Fiber as a Co-Product of Refining Cellulosic Biomass. SAE International Journal of Materials and Manufacturing, 0, 7, 115-121.	0.3	34
43	2016 Billion-Ton Report: Advancing Domestic Resources for a Thriving Bioeconomy (Executive) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.5	28
44	Improving water quality in the Chesapeake Bay using payments for ecosystem services for perennial biomass for bioenergy and biofuel production. Biomass and Bioenergy, 2018, 114, 132-142.	2.9	28
45	The economic feasibility of reclaiming phosphate mined lands with short-rotation woody crops in Florida. Journal of Forest Economics, 2007, 12, 237-249.	0.1	24
46	Eucalyptus and Populus short rotation woody crops for phosphate mined lands in Florida USA. Biomass and Bioenergy, 2006, 30, 728-734.	2.9	23
47	Growing a sustainable biofuels industry: economics, environmental considerations, and the role of the Conservation Reserve Program. Environmental Research Letters, 2013, 8, 025016.	2.2	23
48	Increased nitrogen use efficiency in crop production can provide economic and environmental benefits. Science of the Total Environment, 2021, 758, 143602.	3.9	23
49	Potential land competition between open-pond microalgae production and terrestrial dedicated feedstock supply systems in the U.S.. Renewable Energy, 2016, 93, 201-214.	4.3	21
50	Assessment of the feedstock supply for siting singleâ€and multipleâ€feedstock biorefineries in the USA and identification of prevalent feedstocks. Biofuels, Bioproducts and Biorefining, 2020, 14, 578-593.	1.9	21
51	Effect of dendroremediation incentives on the profitability of short-rotation woody cropping of Eucalyptus grandis. Forest Policy and Economics, 2005, 7, 806-817.	1.5	20
52	A sustainability framework for assessing studies about marginal lands for planting perennial energy crops. Biofuels, Bioproducts and Biorefining, 2019, 13, 228-240.	1.9	17
53	Simulated impact of the renewable fuels standard on US Conservation Reserve Program enrollment and conversion. GCB Bioenergy, 2016, 8, 245-256.	2.5	15
54	Fast-growing trees for cogongrass (Imperata cylindrica) suppression and enhanced colonization of understory plant species on a phosphate-mine clay settling area. Ecological Engineering, 2008, 32, 329-336.	1.6	11

#	ARTICLE	IF	CITATIONS
55	The Economic Accessibility of CO2 Sequestration through Bioenergy with Carbon Capture and Storage (BECCS) in the US. Land, 2020, 9, 299.	1.2	11
56	Modeling spatial dependence and economic hotspots in landownersâ€™ willingness to supply bioenergy crops in the northeastern United States. GCB Bioenergy, 2019, 11, 1086-1097.	2.5	10
57	Economic comparative advantage of willow biomass in the Northeast USA. Biofuels, Bioproducts and Biorefining, 2019, 13, 74-85.	1.9	10
58	2013 feedstock supply and price projections and sensitivity analysis. Biofuels, Bioproducts and Biorefining, 2014, 8, 594-607.	1.9	9
59	The nth-plant scenario for blended feedstock conversion and preprocessing nationwide: Biorefineries and depots. Applied Energy, 2021, 294, 116946.	5.1	9
60	Supply analysis of preferential market incentive for energy crops. Biofuels, Bioproducts and Biorefining, 2021, 15, 736-748.	1.9	8
61	Perennials in Flood-Prone Areas of Agricultural Landscapes: A Climate Adaptation Strategy. BioScience, 2020, 70, 278-280.	2.2	7
62	Environmental and Socioeconomic Indicators for Bioenergy Sustainability as Applied toEucalyptus. International Journal of Forestry Research, 2013, 2013, 1-10.	0.2	5
63	The art of the science: climate forecasts for wildfire management in the southeastern United States. Climatic Change, 2012, 113, 1113-1121.	1.7	4
64	Assessing the Economic Feasibility of Short-Rotation Woody Crops in Florida. Edis, 2007, 2007, .	0.0	4
65	Ecosystem service benefits to water users from perennial biomass production. Science of the Total Environment, 2022, 834, 155255.	3.9	4
66	The influence of CO2 mitigation incentives on profitability of eucalyptus production on clay settling areas in Florida. Biomass and Bioenergy, 2009, 33, 785-792.	2.9	3
67	The impact of alternative land and yield assumptions in herbaceous biomass supply modeling: oneâ€sizeâ€fitsâ€all resource assessment?. Biofuels, Bioproducts and Biorefining, 2019, 13, 120-128.	1.9	3
68	Comparison of Long-Term Bioenergy with Carbon Capture and Storage to Reference Power Generation Technologies Using CO2 Avoidance Cost in the U.S.. Energies, 2021, 14, 7026.	1.6	3
69	Cost and profit impacts of modifying stover harvest operations to improve feedstock quality. Biofuels, Bioproducts and Biorefining, 2019, 13, 1098-1105.	1.9	2
70	Modeled economic potential for Eucalyptus spp. production for jet fuel additives in the United States. Biomass and Bioenergy, 2020, 143, 105807.	2.9	2
71	Investigation of biochemical biorefinery sizing and environmental sustainability impacts for conventional bale system and advanced uniform biomass logistics designs. Biofuels, Bioproducts and Biorefining, 2018, 12, 325-325.	1.9	1
72	The Economic Availability of Woody Biomass Feedstocks in the Northeast. , 2013, , 37-59.		0

#	Article	IF	Citations
73	Nthâ€plant supply: corn stover supplies and costs in a fleet of biorefineries. Biofuels, Bioproducts and Biorefining, 2022, 16, 204-218.	1.9	0