

# Jay M Ham

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

3,391  
citations

201674

27  
h-index

206112

48  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of MODIS NPP and GPP products across multiple biomes. Remote Sensing of Environment, 2006, 102, 282-292.	11.0	540
2	Biomass Production in a Tallgrass Prairie Ecosystem Exposed to Ambient and Elevated CO <sup>2</sup> . , 1993, 3, 644-653.		271
3	Biomass production and species composition change in a tallgrass prairie ecosystem after long-term exposure to elevated atmospheric CO <sup>2</sup> . Global Change Biology, 1999, 5, 497-506.	9.5	266
4	Responses of Soil Respiration to Clipping and Grazing in a Tallgrass Prairie. Journal of Environmental Quality, 1998, 27, 1539-1548.	2.0	196
5	Optical Properties of Plastic Mulches Affect the Field Temperature Regime. Journal of the American Society for Horticultural Science, 1993, 118, 188-193.	1.0	185
6	Fluxes of CO <sub>2</sub> , water vapor, and energy from a prairie ecosystem during the seasonal transition from carbon sink to carbon source. Agricultural and Forest Meteorology, 1998, 89, 1-14.	4.8	131
7	Measuring Soil Water Content in the Laboratory and Field with Dual-Probe Heat Capacity Sensors. Agronomy Journal, 1997, 89, 535-542.	1.8	125
8	Evapotranspiration in a Prairie Ecosystem. Agronomy Journal, 2001, 93, 338-348.	1.8	118
9	Water vapour fluxes and their impact under elevated CO <sub>2</sub> in a C <sub>4</sub> -tallgrass prairie. Global Change Biology, 1997, 3, 189-195.	9.5	105
10	Rapid, Vehicle-Based Identification of Location and Magnitude of Urban Natural Gas Pipeline Leaks. Environmental Science & Technology, 2017, 51, 4091-4099.	10.0	105
11	Determination of soil water evaporation and transpiration from energy balance and stem flow measurements. Agricultural and Forest Meteorology, 1990, 52, 287-301.	4.8	99
12	Fluxes of CO <sub>2</sub> From Grazed and Ungrazed Tallgrass Prairie. Rangeland Ecology and Management, 2006, 59, 111-127.	2.3	88
13	Effect of spring burning on the surface energy balance in a tallgrass prairie. Agricultural and Forest Meteorology, 1999, 97, 43-54.	4.8	80
14	Standardization of flux chamber and wind tunnel flux measurements for quantifying volatile organic compound and ammonia emissions from area sources at animal feeding operations. Atmospheric Environment, 2013, 66, 72-83.	4.1	72
15	Modeling the effect of mulch optical properties and mulch-soil contact resistance on soil heating under plastic mulch culture. Agricultural and Forest Meteorology, 1994, 71, 403-424.	4.8	68
16	Linking plant growth responses across topographic gradients in tallgrass prairie. Oecologia, 2011, 166, 1131-1142.	2.0	61
17	Responses in stomatal conductance to elevated CO <sub>2</sub> in 12 grassland species that differ in growth form. Plant Ecology, 1996, 125, 31-41.	1.2	58
18	Temporal and spatial variability of ammonia in urban and agricultural regions of northern Colorado, United States. Atmospheric Chemistry and Physics, 2017, 17, 6197-6213.	4.9	53

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19	Isotopic air sampling in a tallgrass prairie to partition net ecosystem CO <sub>2</sub> exchange. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	52
20	Open-path eddy covariance measurements of ammonia fluxes from a beef cattle feedlot. <i>Agricultural and Forest Meteorology</i> , 2015, 213, 193-202.	4.8	52
21	Seepage Losses and Nitrogen Export from Swine Waste Lagoons: A Water Balance Study. <i>Journal of Environmental Quality</i> , 1999, 28, 1090-1099.	2.0	45
22	Effect of Elevated Atmospheric Carbon Dioxide and Open-Top Chambers on Transpiration in a Tallgrass Prairie. <i>Journal of Environmental Quality</i> , 1996, 25, 691-701.	2.0	40
23	Positional variation in the soil energy balance beneath a row-crop canopy. <i>Agricultural and Forest Meteorology</i> , 1993, 63, 73-92.	4.8	39
24	Ecosystem-Level Responses of Tallgrass Prairie to Elevated CO <sub>2</sub> . , 1996, , 147-162.		38
25	Improved theory for calculating sap flow with the heat pulse method. <i>Agricultural and Forest Meteorology</i> , 2004, 126, 169-173.	4.8	35
26	Developing and normalizing average corn crop water production functions across years and locations using a system model. <i>Agricultural Water Management</i> , 2015, 157, 65-77.	5.6	35
27	On the Measurement of Soil Surface Temperature. <i>Soil Science Society of America Journal</i> , 1992, 56, 370-377.	2.2	33
28	Seasonal and interannual variations of carbon and oxygen isotopes of respired CO <sub>2</sub> in a tallgrass prairie: Measurements and modeling results from 3 years with contrasting water availability. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	33
29	A heat-pulse method for measuring sap flow in corn and sunflower using 3D-printed sensor bodies and low-cost electronics. <i>Agricultural and Forest Meteorology</i> , 2017, 246, 86-97.	4.8	33
30	Air Toxics and Other Volatile Organic Compound Emissions from Unconventional Oil and Gas Development. <i>Environmental Science and Technology Letters</i> , 2019, 6, 720-726.	8.7	31
31	Measuring sensible heat flux in plastic mulch culture with aerodynamic conductance sensors. <i>Agricultural and Forest Meteorology</i> , 1999, 95, 1-13.	4.8	26
32	Net Carbon Fluxes Over Burned and Unburned Native Tallgrass Prairie. <i>Rangeland Ecology and Management</i> , 2010, 63, 72-81.	2.3	26
33	Photosynthetic Gas Exchange and Water Relation Responses of Three Tallgrass Prairie Species to Elevated Carbon Dioxide and Moderate Drought. <i>International Journal of Plant Sciences</i> , 1997, 158, 608-616.	1.3	23
34	Regional CO <sub>2</sub> fluxes inferred from mixing ratio measurements: estimates from flask air samples in central Kansas, USA. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 523-536.	1.6	21
35	Ammonia emissions from a beef feedlot: Comparison of inverse modeling techniques using long-path and point measurements of fence-line NH <sub>3</sub> . <i>Agricultural and Forest Meteorology</i> , 2018, 258, 29-42.	4.8	20
36	A Dual-Heater Gauge for Measuring Sap Flow with an Improved Heat-Balance Method. <i>Agronomy Journal</i> , 1996, 88, 149-155.	1.8	19

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37	Nutrient Accumulation below Cattle Feedlot Pens in Kansas. <i>Journal of Environmental Quality</i> , 2009, 38, 909-918.	2.0	19
38	MEASUREMENT AND PARTITIONING OF IN SITU CARBON DIOXIDE FLUXES IN TURFGRASSES USING A PRESSURIZED CHAMBER. <i>Agronomy Journal</i> , 2005, 97, 627-632.	1.8	17
39	Movement of Lagoon-Liquor Constituents below Four Animal-Waste Lagoons. <i>Journal of Environmental Quality</i> , 2005, 34, 1234-1242.	2.0	16
40	Organic Fertilizer Source and Application Method Impact Ammonia Volatilization. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 1469-1482.	1.4	16
41	MEASUREMENT AND MODELING OF SOIL CO <sub>2</sub> FLUX IN A TEMPERATE GRASSLAND UNDER MOWED AND BURNED REGIMES. , 2002, 12, 1318-1328.		15
42	Ammonia Dry Deposition in an Alpine Ecosystem Traced to Agricultural Emission Hotspots. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7776-7785.	10.0	13
43	The effect of CO <sub>2</sub> enrichment on leaf photosynthetic rates and instantaneous water use efficiency of <i>Andropogon gerardii</i> in the tallgrass prairie. <i>Photosynthesis Research</i> , 2000, 65, 121-129.	2.9	11
44	Technique for Measuring Air Flow and Carbon Dioxide Flux in Large, Open-Top Chambers. <i>Journal of Environmental Quality</i> , 1993, 22, 759-766.	2.0	10
45	Elevated CO <sub>2</sub> and Leaf Longevity in the C <sub>4</sub> Grassland-Dominant <i>Andropogon gerardii</i> . <i>International Journal of Plant Sciences</i> , 1999, 160, 1057-1061.	1.3	10
46	Influence of Reduced Nitrogen Diets on Ammonia Emissions from Cattle Feedlot Pens. <i>Atmosphere</i> , 2011, 2, 655-670.	2.3	10
47	Assessing the efficacy of nitrogen isotopes to distinguish Colorado Front Range ammonia sources affecting Rocky Mountain National Park. <i>Atmospheric Environment</i> , 2019, 215, 116881.	4.1	9
48	Exploring new methods of estimating deposition using atmospheric concentration measurements: A modeling case study of ammonia downwind of a feedlot. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 107989.	4.8	7
49	Reducing Wet Ammonium Deposition in Rocky Mountain National Park: the Development and Evaluation of A Pilot Early Warning System for Agricultural Operations in Eastern Colorado. <i>Environmental Management</i> , 2019, 64, 626-639.	2.7	6
50	Ammonia Emissions from Subalpine Forest and Mountain Grassland Soils in Rocky Mountain National Park. <i>Journal of Environmental Quality</i> , 2018, 47, 778-785.	2.0	5
51	Eco-Efficiency Model for Evaluating Feedlot Rations in the Great Plains, United States. <i>Journal of Environmental Quality</i> , 2016, 45, 1234-1242.	2.0	4
52	Measurement and Modeling of Soil CO <sub>2</sub> Flux in a Temperate Grassland under Mowed and Burned Regimes. , 2002, 12, 1318.		0
53	Standards for Measuring Seepage from Anaerobic Lagoons and Manure Storages. , 2003, , .		0
54	Measuring the Seepage Rate from Lagoons Using an Overnight Water Balance Test. , 2007, , .		0

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55	AFM special issue “Greenhouse gas and ammonia emissions from livestock production. Agricultural and Forest Meteorology, 2018, 258, 1-2.	4.8	0
56	Traversing Sensor Platform for Environmental Measurements. Agronomy Journal, 1993, 85, 965-968.	1.8	0