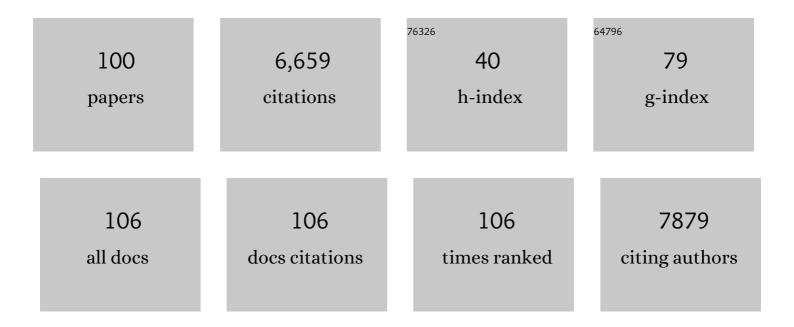
## **Timothy Griffis**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Response of nitrous oxide emissions to individual rain events and future changes in precipitation. Journal of Environmental Quality, 2022, 51, 312-324.	2.0	8
2	KGML-ag: a modeling framework of knowledge-guided machine learning to simulate agroecosystems: a case study of estimating N <sub>2</sub> O emission using data from mesocosm experiments. Geoscientific Model Development, 2022, 15, 2839-2858.	3.6	13
3	Biases in open-path carbon dioxide flux measurements: Roles of instrument surface heat exchange and analyzer temperature sensitivity. Agricultural and Forest Meteorology, 2021, 296, 108216.	4.8	3
4	Aircraft-based inversions quantify the importance of wetlands and livestock for Upper Midwest methane emissions. Atmospheric Chemistry and Physics, 2021, 21, 951-971.	4.9	14
5	Evaluation of a CONUS-Wide ECOSTRESS DisALEXI Evapotranspiration Product. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10117-10133.	4.9	6
6	Warming temperatures lead to reduced summer carbon sequestration in the U.S. Corn Belt. Communications Earth & Environment, 2021, 2, .	6.8	7
7	A Multiyear Constraint on Ammonia Emissions and Deposition Within the US Corn Belt. Geophysical Research Letters, 2021, 48, e2020GL090865.	4.0	4
8	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. Agricultural and Forest Meteorology, 2021, 301-302, 108350.	4.8	125
9	Fossil Versus Nonfossil CO Sources in the US: New Airborne Constraints From ACTâ€America and GEM. Geophysical Research Letters, 2021, 48, e2021GL093361.	4.0	8
10	Anthropogenic and natural controls on atmospheric <i>l´</i> <sup>13</sup> C-CO <sub&gt variations in the Yangtze River delta: insights from a carbon isotope modeling framework. Atmospheric Chemistry and Physics, 2021, 21, 10015-10037.</sub&gt 	;2 <br 4.9	sub>
11	Seasonal Variations of CH4 Emissions in the Yangtze River Delta Region of China Are Driven by Agricultural Activities. Advances in Atmospheric Sciences, 2021, 38, 1537-1551.	4.3	9
12	Long-term ecosystem carbon losses from silage maize-based forage cropping systems. Agricultural and Forest Meteorology, 2021, 306, 108438.	4.8	11
13	Seasonality in aerodynamic resistance across a range of North American ecosystems. Agricultural and Forest Meteorology, 2021, 310, 108613.	4.8	14
14	Modeling the Sources and Transport Processes During Extreme Ammonia Episodes in the U.S. Corn Belt. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031207.	3.3	7
15	Nitrogen management and air quality in China. Nature Food, 2020, 1, 597-598.	14.0	4
16	Hydrometeorological sensitivities of net ecosystem carbon dioxide and methane exchange of an Amazonian palm swamp peatland. Agricultural and Forest Meteorology, 2020, 295, 108167.	4.8	25
17	Climate Sensitivity of Peatland Methane Emissions Mediated by Seasonal Hydrologic Dynamics. Geophysical Research Letters, 2020, 47, e2020GL088875.	4.0	21
18	Redefining droughts for the U.S. Corn Belt: The dominant role of atmospheric vapor pressure deficit over soil moisture in regulating stomatal behavior of Maize and Soybean. Agricultural and Forest Meteorology, 2020, 287, 107930.	4.8	90

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19	ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. Water Resources Research, 2020, 56, e2019WR026058.	4.2	220
20	Topâ€Down Constraints on Methane Point Source Emissions From Animal Agriculture and Waste Based on New Airborne Measurements in the U.S. Upper Midwest. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005429.	3.0	7
21	Error characterization of methane fluxes and budgets derived from a long-term comparison of open- and closed-path eddy covariance systems. Agricultural and Forest Meteorology, 2019, 278, 107638.	4.8	16
22	Anthropogenic Methane Emission and Its Partitioning for the Yangtze River Delta Region of China. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1148-1170.	3.0	14
23	Tall Tower Ammonia Observations and Emission Estimates in the U.S. Midwest. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3432-3447.	3.0	10
24	A global database of water vapor isotopes measured with high temporal resolution infrared laser spectroscopy. Scientific Data, 2019, 6, 180302.	5.3	31
25	Source Partitioning of Methane Emissions and its Seasonality in the U.S. Midwest. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 646-659.	3.0	18
26	Top-down constraints on global N <sub>2</sub> O emissions at optimal resolution: application of aÂnew dimension reduction technique. Atmospheric Chemistry and Physics, 2018, 18, 735-756.	4.9	22
27	Comparing crop growth and carbon budgets simulated across AmeriFlux agricultural sites using the Community Land Model (CLM). Agricultural and Forest Meteorology, 2018, 256-257, 315-333.	4.8	13
28	Evaporation from a temperate closed-basin lake and its impact on present, past, and future water level. Journal of Hydrology, 2018, 561, 59-75.	5.4	50
29	Atmospheric Humidity. Agronomy, 2018, , 95-108.	0.2	0
30	Topâ€Down Constraints on Anthropogenic CO <sub>2</sub> Emissions Within an Agriculturalâ€Urban Landscape. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4674-4694.	3.3	18
31	Temporal Dynamics of Aerodynamic Canopy Height Derived From Eddy Covariance Momentum Flux Data Across North American Flux Networks. Geophysical Research Letters, 2018, 45, 9275-9287.	4.0	31
32	Bidirectional Ecosystem–Atmosphere Fluxes of Volatile Organic Compounds Across the Mass Spectrum: How Many Matter?. ACS Earth and Space Chemistry, 2018, 2, 764-777.	2.7	39
33	A Modeling Study of Direct and Indirect N <sub>2</sub> O Emissions From a Representative Catchment in the U.S. Corn Belt. Water Resources Research, 2018, 54, 3632-3653.	4.2	30
34	Influences of Root Hydraulic Redistribution on N <sub>2</sub> O Emissions at AmeriFlux Sites. Geophysical Research Letters, 2018, 45, 5135-5143.	4.0	12
35	Multiscale analyses of solarâ€induced florescence and gross primary production. Geophysical Research Letters, 2017, 44, 533-541.	4.0	98
36	Investigation of the N2O emission strength in the U. S. Corn Belt. Atmospheric Research, 2017, 194, 66-77.	4.1	13

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37	OCO-2 advances photosynthesis observation from space via solar-induced chlorophyll fluorescence. Science, 2017, 358, .	12.6	438
38	Nitrous oxide emissions are enhanced in a warmer and wetter world. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12081-12085.	7.1	155
39	Feasibility of Recycling Excess Agricultural Nitrate with Electrodialysis. Journal of Environmental Quality, 2017, 46, 1528-1534.	2.0	5
40	Impact of Kura Clover Living Mulch on Nitrous Oxide Emissions in a Corn–Soybean System. Journal of Environmental Quality, 2016, 45, 1782-1787.	2.0	12
41	Partitioning N <sub>2</sub> O emissions within the U.S. Corn Belt using an inverse modeling approach. Global Biogeochemical Cycles, 2016, 30, 1192-1205.	4.9	32
42	A geostatistical approach to identify and mitigate agricultural nitrous oxide emission hotspots. Science of the Total Environment, 2016, 572, 442-449.	8.0	20
43	Investigating the source, transport, and isotope composition of water vapor in the planetary boundary layer. Atmospheric Chemistry and Physics, 2016, 16, 5139-5157.	4.9	29
44	Regionalâ€scale controls on dissolved nitrous oxide in the Upper Mississippi River. Geophysical Research Letters, 2016, 43, 4400-4407.	4.0	54
45	Effects of in-situ and reanalysis climate data on estimation of cropland gross primary production using the Vegetation Photosynthesis Model. Agricultural and Forest Meteorology, 2015, 213, 240-250.	4.8	29
46	lsoprene emissions and impacts over an ecological transition region in the U.S. Upper Midwest inferred from tall tower measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3553-3571.	3.3	48
47	Simulation of atmospheric N <sub>2</sub> O with GEOS-Chem and its adjoint: evaluation of observational constraints. Geoscientific Model Development, 2015, 8, 3179-3198.	3.6	15
48	Performance of Linear and Nonlinear Two-Leaf Light Use Efficiency Models at Different Temporal Scales. Remote Sensing, 2015, 7, 2238-2278.	4.0	23
49	Indirect nitrous oxide emissions from streams within the US Corn Belt scale with stream order. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9839-9843.	7.1	131
50	Emissions of C <sub>6</sub> –C <sub>8</sub> aromatic compounds in the United States: Constraints from tall tower and aircraft measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 826-842.	3.3	44
51	Quantifying nitrous oxide fluxes on multiple spatial scales in the Upper Midwest, USA. International Journal of Biometeorology, 2015, 59, 299-310.	3.0	10
52	Productivity and Carbon Dioxide Exchange of Leguminous Crops: Estimates from Flux Tower Measurements. Agronomy Journal, 2014, 106, 545-559.	1.8	40
53	Reply to Magnani et al.: Linking large-scale chlorophyll fluorescence observations with cropland gross primary production. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2511.	7.1	11
54	The influence of plants on atmospheric methane in an agriculture-dominated landscape. International Journal of Biometeorology, 2014, 58, 819-833.	3.0	9

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55	Global and time-resolved monitoring of crop photosynthesis with chlorophyll fluorescence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1327-33.	7.1	741
56	Estimating regional greenhouse gas fluxes: an uncertainty analysis of planetary boundary layer techniques and bottom-up inventories. Atmospheric Chemistry and Physics, 2014, 14, 10705-10719.	4.9	18
57	Tracing the flow of carbon dioxide and water vapor between the biosphere and atmosphere: A review of optical isotope techniques and their application. Agricultural and Forest Meteorology, 2013, 174-175, 85-109.	4.8	97
58	Interannual, seasonal, and retrospective analysis of the methane and carbon dioxide budgets of a temperate peatland. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 226-238.	3.0	82
59	Reconciling the differences between topâ€down and bottomâ€up estimates of nitrous oxide emissions for the U.S. Corn Belt. Global Biogeochemical Cycles, 2013, 27, 746-754.	4.9	71
60	North American acetone sources determined from tall tower measurements and inverse modeling. Atmospheric Chemistry and Physics, 2013, 13, 3379-3392.	4.9	29
61	Automated, Lowâ€Power Chamber System for Measuring Nitrous Oxide Emissions. Journal of Environmental Quality, 2013, 42, 606-614.	2.0	28
62	Interannual, seasonal, and diel variability in the carbon isotope composition of respiration in a C3/C4 agricultural ecosystem. Agricultural and Forest Meteorology, 2012, 153, 144-153.	4.8	17
63	Evaluation of carbon isotope flux partitioning theory under simplified and controlled environmental conditions. Agricultural and Forest Meteorology, 2012, 153, 154-164.	4.8	17
64	A metaâ€analysis of water vapor deuteriumâ€excess in the midlatitude atmospheric surface layer. Global Biogeochemical Cycles, 2012, 26, .	4.9	78
65	Coupling landscape water storage and supplemental irrigation to increase productivity and improve environmental stewardship in the U.S. Midwest. Water Resources Research, 2012, 48, .	4.2	50
66	Oxygen isotope composition of evapotranspiration and its relation to C <sub>4</sub> photosynthetic discrimination. Journal of Geophysical Research, 2011, 116, .	3.3	41
67	The potential of carbonyl sulfide as a proxy for gross primary production at flux tower sites. Journal of Geophysical Research, 2011, 116, .	3.3	46
68	Sources and seasonality of atmospheric methanol based on tall tower measurements in the US Upper Midwest. Atmospheric Chemistry and Physics, 2011, 11, 11145-11156.	4.9	56
69	Identification and correction of spectral contamination in <sup>2</sup> H/ <sup>1</sup> H and <sup>18</sup> O/ <sup>16</sup> O measured in leaf, stem, and soil water. Rapid Communications in Mass Spectrometry, 2011, 25, 3360-3368.	1.5	132
70	Determining the Oxygen Isotope Composition of Evapotranspiration Using Eddy Covariance. Boundary-Layer Meteorology, 2010, 137, 307-326.	2.3	57
71	Influence of C <sub>4</sub> vegetation on <sup>13</sup> CO <sub>2</sub> discrimination and isoforcing in the upper Midwest, United States. Global Biogeochemical Cycles, 2010, 24, .	4.9	32
72	A modeling investigation of canopyâ€air oxygen isotopic exchange of water vapor and carbon dioxide in a soybean field. Journal of Geophysical Research, 2010, 115, .	3.3	29

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73	A simple, accurate, field-portable mixing ratio generator and Rayleigh distillation device. Agricultural and Forest Meteorology, 2010, 150, 1607-1611.	4.8	6
74	Evaluating the potential use of winter cover crops in corn–soybean systems for sustainable co-production of food and fuel. Agricultural and Forest Meteorology, 2009, 149, 2120-2132.	4.8	45
75	Influence of Phenology and Land Management on Biosphere-Atmosphere Isotopic CO2 Exchange. , 2009, , 143-166.		2
76	<i>Î</i> <sup>18</sup> 0 of water vapour, evapotranspiration and the sites of leaf water evaporation in a soybean canopy. Plant, Cell and Environment, 2008, 31, 1214-1228.	5.7	136
77	Direct measurement of biosphereâ€atmosphere isotopic CO <sub>2</sub> exchange using the eddy covariance technique. Journal of Geophysical Research, 2008, 113, .	3.3	67
78	Climatic controls on the carbon and water balances of a boreal aspen forest, 1994?2003. Global Change Biology, 2007, 13, 561-576.	9.5	238
79	Tillage and soil carbon sequestration—What do we really know?. Agriculture, Ecosystems and Environment, 2007, 118, 1-5.	5.3	971
80	Determining carbon isotope signatures from micrometeorological measurements: Implications for studying biosphere–atmosphere exchange processes. Boundary-Layer Meteorology, 2007, 123, 295-316.	2.3	50
81	Response of Net Ecosystem Productivity of Three Boreal Forest Stands to Drought. Ecosystems, 2007, 10, 1039-1055.	3.4	74
82	Using continuous stable isotope measurements to partition net ecosystem CO2 exchange. Plant, Cell and Environment, 2006, 29, 483-496.	5.7	51
83	Response of Net Ecosystem Productivity of Three Boreal Forest Stands to Drought. Ecosystems, 2006, 9, 1128-1144.	3.4	129
84	Seasonal dynamics and partitioning of isotopic CO2 exchange in a C3/C4 managed ecosystem. Agricultural and Forest Meteorology, 2005, 132, 1-19.	4.8	45
85	Feasibility of quantifying ecosystem–atmosphere C18O16O exchange using laser spectroscopy and the flux-gradient method. Agricultural and Forest Meteorology, 2005, 135, 44-60.	4.8	55
86	Sensitivity and uncertainty of the carbon balance of a Pacific Northwest Douglas-fir forest during an El Niño/La Niña cycle. Agricultural and Forest Meteorology, 2004, 123, 201-219.	4.8	254
87	Measuring field-scale isotopic CO2 fluxes with tunable diode laser absorption spectroscopy and micrometeorological techniques. Agricultural and Forest Meteorology, 2004, 124, 15-29.	4.8	115
88	Seasonal variation and partitioning of ecosystem respiration in a southern boreal aspen forest. Agricultural and Forest Meteorology, 2004, 125, 207-223.	4.8	158
89	Year-round observations of the energy and water vapour fluxes above a boreal black spruce forest. Hydrological Processes, 2003, 17, 3581-3600.	2.6	77
90	Seasonality in the Surface Energy Balance of Tundra in the Lower Mackenzie River Basin. Journal of Hydrometeorology, 2003, 4, 673-679.	1.9	5

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91	Comparing the carbon budgets of boreal and temperate deciduous forest stands. Canadian Journal of Forest Research, 2002, 32, 813-822.	1.7	136
92	The Annual Carbon Budget for Fen and Forest in a Wetland at Arctic Treeline. Arctic, 2002, 55, .	0.4	17
93	Interannual Variability in Net Ecosystem CO 2 Exchange at the Arctic Treeline. Arctic, Antarctic, and Alpine Research, 2001, 33, 149.	1.1	24
94	Modelling the interannual variability of net ecosystem CO2 exchange at a subarctic sedge fen. Global Change Biology, 2001, 7, 511-530.	9.5	33
95	Scaling net ecosystem CO2 exchange from the community to landscape-level at a subarctic fen. Global Change Biology, 2000, 6, 459-473.	9.5	47
96	SYNOPTIC AND SURFACE CLIMATOLOGY INTERACTIONS IN THE CENTRAL CANADIAN SUBARCTIC: NORMAL AND EL NIÑO SEASONS. Physical Geography, 2000, 21, 368-383.	1.4	5
97	CONTROLS ON ENERGY AND CARBON FLUXES FROM SELECT HIGH-LATITUDE TERRESTRIAL SURFACES. Physical Geography, 2000, 21, 345-367.	1.4	11
98	Interannual variability of net ecosystem CO2exchange at a subarctic fen. Global Biogeochemical Cycles, 2000, 14, 1109-1121.	4.9	112
99	Carbon dioxide fluxes in a northern fen during a hot, dry summer. Global Biogeochemical Cycles, 1998, 12, 729-740.	4.9	49
100	METEOROLOGICAL ANALYSIS OF DAILY MAXIMUM GROUND-LEVEL OZONE FOR THE NIAGARA REGION. Physical Geography, 1996, 17, 371-399.	1.4	1