

Allison M Thomson

List of Publications by Year in descending order

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69
papers

23,760
citations

81743

39
h-index

91712

69
g-index

71
all docs

71
docs citations

71
times ranked

27505
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of climate change impacts and effectiveness of adaptation options on nitrate loss, microbial respiration, and soil organic carbon in the Southeastern USA. <i>Agricultural Systems</i> , 2021, 193, 103210.	3.2	6
2	Interactions between land systems and food systems. <i>Current Opinion in Environmental Sustainability</i> , 2019, 38, 60-67.	3.1	30
3	Sustainable intensification in land systems: trade-offs, scales, and contexts. <i>Current Opinion in Environmental Sustainability</i> , 2019, 38, 37-43.	3.1	48
4	Toward a normative land systems science. <i>Current Opinion in Environmental Sustainability</i> , 2019, 38, 1-6.	3.1	56
5	Greenhouse Gas Emissions and Management Practices that Affect Emissions in US Rice Systems. <i>Journal of Environmental Quality</i> , 2018, 47, 395-409.	1.0	44
6	Focus on agriculture and forestry benefits of reducing climate change impacts. <i>Environmental Research Letters</i> , 2017, 12, 060301.	2.2	10
7	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. <i>Nature Climate Change</i> , 2017, 7, 496-500.	8.1	46
8	Evaluation of climate change impacts and effectiveness of adaptation options on crop yield in the Southeastern United States. <i>Field Crops Research</i> , 2017, 214, 228-238.	2.3	26
9	Science in the Supply Chain: Collaboration Opportunities for Advancing Sustainable Agriculture in the United States. <i>Agricultural and Environmental Letters</i> , 2017, 2, 170015.	0.8	22
10	An integrated assessment of the potential of agricultural and forestry residues for energy production in China. <i>GCB Bioenergy</i> , 2016, 8, 880-893.	2.5	46
11	Land system science and sustainable development of the earth system: A global land project perspective. <i>Anthropocene</i> , 2015, 12, 29-41.	1.6	388
12	Assessment of the importance of spatial scale in long-term land use modeling of the Midwestern United States. <i>Environmental Modelling and Software</i> , 2015, 72, 261-271.	1.9	4
13	Climate change impacts on US agriculture and forestry: benefits of global climate stabilization. <i>Environmental Research Letters</i> , 2015, 10, 095004.	2.2	35
14	The integrated Earth system model version 1: formulation and functionality. <i>Geoscientific Model Development</i> , 2015, 8, 2203-2219.	1.3	44
15	A global map of urban extent from nightlights. <i>Environmental Research Letters</i> , 2015, 10, 054011.	2.2	228
16	A comprehensive view of global potential for hydro-generated electricity. <i>Energy and Environmental Science</i> , 2015, 8, 2622-2633.	15.6	129
17	Investigating the nexus of climate, energy, water, and land at decision-relevant scales: the Platform for Regional Integrated Modeling and Analysis (PRIMA). <i>Climatic Change</i> , 2015, 129, 573-588.	1.7	119
18	Regional scale cropland carbon budgets: Evaluating a geospatial agricultural modeling system using inventory data. <i>Environmental Modelling and Software</i> , 2015, 63, 199-216.	1.9	55

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19	From land use to land cover: restoring the afforestation signal in a coupled integrated assessmentâ€œearth system model and the implications for CMIP5 RCP simulations. <i>Biogeosciences</i> , 2014, 11, 6435-6450.	1.3	49
20	On linking an Earth system model to the equilibrium carbon representation of an economically optimizing land use model. <i>Geoscientific Model Development</i> , 2014, 7, 2545-2555.	1.3	26
21	Downscaling global land cover projections from an integrated assessment model for use in regional analyses: results and evaluation for the US from 2005 to 2095. <i>Environmental Research Letters</i> , 2014, 9, 064004.	2.2	36
22	Multi-scale geospatial agroecosystem modeling: A case study on the influence of soil data resolution on carbon budget estimates. <i>Science of the Total Environment</i> , 2014, 479-480, 138-150.	3.9	21
23	A cluster-based method to map urban area from DMSP/OLS nightlights. <i>Remote Sensing of Environment</i> , 2014, 147, 173-185.	4.6	303
24	Near-term limits to mitigation: Challenges arising from contrary mitigation effects from indirect land-use change and sulfur emissions. <i>Energy Economics</i> , 2014, 42, 233-239.	5.6	3
25	The contribution of future agricultural trends in the US Midwest to global climate change mitigation. <i>Global Environmental Change</i> , 2014, 24, 143-154.	3.6	17
26	Meeting the radiative forcing targets of the representative concentration pathways in a world with agricultural climate impacts. <i>Earth's Future</i> , 2014, 2, 83-98.	2.4	25
27	Efficient multi-objective calibration of a computationally intensive hydrologic model with parallel computing software in Python. <i>Environmental Modelling and Software</i> , 2013, 46, 208-218.	1.9	78
28	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. <i>Journal of Climate</i> , 2013, 26, 3657-3670.	1.2	59
29	Implications of simultaneously mitigating and adapting to climate change: initial experiments using GCAM. <i>Climatic Change</i> , 2013, 117, 545-560.	1.7	36
30	Sensitivity of climate mitigation strategies to natural disturbances. <i>Environmental Research Letters</i> , 2013, 8, 015018.	2.2	21
31	Evaluation of Three Field-Based Methods for Quantifying Soil Carbon. <i>PLoS ONE</i> , 2013, 8, e55560.	1.1	22
32	A proposal for a new scenario framework to support research and assessment in different climate research communities. <i>Global Environmental Change</i> , 2012, 22, 21-35.	3.6	228
33	Multi-Year Lags between Forest Browning and Soil Respiration at High Northern Latitudes. <i>PLoS ONE</i> , 2012, 7, e50441.	1.1	18
34	Evaluating the Efficiency of a Multi-core Aware Multi-objective Optimization Tool for Calibrating the SWAT Model. <i>Transactions of the ASABE</i> , 2012, 55, 1723-1731.	1.1	10
35	Comment on â€œModeling Miscanthus in the Soil and Water Assessment Tool (SWAT) to Simulate Its Water Quality Effects As a Bioenergy Cropâ€œ. <i>Environmental Science & Technology</i> , 2011, 45, 6211-6212.	4.6	17
36	Climate Impacts on Agriculture: Implications for Forage and Rangeland Production. <i>Agronomy Journal</i> , 2011, 103, 371-381.	0.9	111

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37	Climate Impacts on Agriculture: Implications for Crop Production. <i>Agronomy Journal</i> , 2011, 103, 351-370.	0.9	1,056
38	Response of <i>Alamo</i> switchgrass tissue chemistry and biomass to nitrogen fertilization in West Tennessee, USA. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 289-297.	2.5	42
39	The representative concentration pathways: an overview. <i>Climatic Change</i> , 2011, 109, 5-31.	1.7	5,871
40	RCP4.5: a pathway for stabilization of radiative forcing by 2100. <i>Climatic Change</i> , 2011, 109, 77-94.	1.7	1,238
41	Harmonization of land-use scenarios for the period 1500–2100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. <i>Climatic Change</i> , 2011, 109, 117-161.	1.7	1,080
42	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. <i>Climatic Change</i> , 2011, 109, 213-241.	1.7	2,948
43	Intra-annual changes in biomass, carbon, and nitrogen dynamics at 4-year old switchgrass field trials in west Tennessee, USA†. <i>Agriculture, Ecosystems and Environment</i> , 2010, 136, 177-184.	2.5	72
44	The next generation of scenarios for climate change research and assessment. <i>Nature</i> , 2010, 463, 747-756.	13.7	5,299
45	Temperature-associated increases in the global soil respiration record. <i>Nature</i> , 2010, 464, 579-582.	13.7	1,230
46	A global database of soil respiration data. <i>Biogeosciences</i> , 2010, 7, 1915-1926.	1.3	437
47	Climate mitigation and the future of tropical landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19633-19638.	3.3	76
48	An integrative modeling framework to evaluate the productivity and sustainability of biofuel crop production systems. <i>GCB Bioenergy</i> , 2010, 2, 258-277.	2.5	106
49	What do near-term observations tell us about long-term developments in greenhouse gas emissions?. <i>Climatic Change</i> , 2010, 103, 635-642.	1.7	20
50	2.6: Limiting climate change to 450 ppm CO ₂ equivalent in the 21st century. <i>Energy Economics</i> , 2009, 31, S107-S120.	5.6	106
51	Implications of Limiting CO ₂ Concentrations for Land Use and Energy. <i>Science</i> , 2009, 324, 1183-1186.	6.0	778
52	Long-term climate change impacts on agricultural productivity in eastern China. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1118-1128.	1.9	142
53	Terrestrial biological carbon sequestration: Science for enhancement and implementation. <i>Geophysical Monograph Series</i> , 2009, , 73-88.	0.1	15
54	Integrated estimates of global terrestrial carbon sequestration. <i>Global Environmental Change</i> , 2008, 18, 192-203.	3.6	55

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55	Long-term modeling of soil C erosion and sequestration at the small watershed scale. Climatic Change, 2007, 80, 73-90.	1.7	75
56	Simulating Long-Term and Residual Effects of Nitrogen Fertilization on Corn Yields, Soil Carbon Sequestration, and Soil Nitrogen Dynamics. Journal of Environmental Quality, 2006, 35, 1608-1619.	1.0	28
57	Climate change impacts on agriculture and soil carbon sequestration potential in the Huang-Hai Plain of China. Agriculture, Ecosystems and Environment, 2006, 114, 195-209.	2.5	110
58	Biophysical characterization and management effects on semiarid rangeland observed from Landsat ETM+ data. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 125-134.	2.7	25
59	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 27-41.	1.7	21
60	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 67-88.	1.7	44
61	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 89-105.	1.7	20
62	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 43-65.	1.7	80
63	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 7-25.	1.7	26
64	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 107-126.	1.7	13
65	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. , 2005, , 27-41.		2
66	SIMULATED IMPACTS OF EL NINO/SOUTHERN OSCILLATION ON UNITED STATES WATER RESOURCES. Journal of the American Water Resources Association, 2003, 39, 137-148.	1.0	25
67	Integrated assessment of Hadley Center (HadCM2) climate-change impacts on agricultural productivity and irrigation water supply in the conterminous United States. Agricultural and Forest Meteorology, 2003, 117, 97-122.	1.9	157
68	Integrated assessment of Hadley Centre (HadCM2) climate change projections on agricultural productivity and irrigation water supply in the conterminous United States. Agricultural and Forest Meteorology, 2003, 117, 73-96.	1.9	97
69	Title is missing!. Climatic Change, 2002, 54, 141-164.	1.7	31