Allison M Thomson

List of Publications by Year
in descending order

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	The representative concentration pathways: an overview. Climatic Change, 2011, 109, 5-31.	1.7	5,871
2	The next generation of scenarios for climate change research and assessment. Nature, 2010, 463, 747-756.	13.7	5,299
3	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. Climatic Change, 2011, 109, 213-241.	1.7	2,948
4	RCP4.5: a pathway for stabilization of radiative forcing by 2100. Climatic Change, 2011, 109, 77-94.	1.7	1,238
5	Temperature-associated increases in the global soil respiration record. Nature, 2010, 464, 579-582.	13.7	1,230
6	Harmonization of land-use scenarios for the period 1500â€“2100: 600Âyears of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. Climatic Change, 2011, 109, 117-161.	1.7	1,080
7	Climate Impacts on Agriculture: Implications for Crop Production. Agronomy Journal, 2011, 103, 351-370.	0.9	1,056
8	Implications of Limiting CO ₂ Concentrations for Land Use and Energy. Science, 2009, 324, 1183-1186.	6.0	778
9	A global database of soil respiration data. Biogeosciences, 2010, 7, 1915-1926.	1.3	437
10	Land system science and sustainable development of the earth system: A global land project perspective. Anthropocene, 2015, 12, 29-41.	1.6	388
11	A cluster-based method to map urban area from DMSP/OLS nightlights. Remote Sensing of Environment, 2014, 147, 173-185.	4.6	303
12	A proposal for a new scenario framework to support research and assessment in different climate research communities. Global Environmental Change, 2012, 22, 21-35.	3.6	228
13	A global map of urban extent from nightlights. Environmental Research Letters, 2015, 10, 054011.	2.2	228
14	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
15	Long-term climate change impacts on agricultural productivity in eastern China. Agricultural and Forest Meteorology, 2009, 149, 1118-1128.	1.9	142
16	A comprehensive view of global potential for hydro-generated electricity. Energy and Environmental Science, 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). Climatic Change, 2015, 129, 573-588.	1.7	119
18	Climate Impacts on Agriculture: Implications for Forage and Rangeland Production. Agronomy Journal, 2011, 103, 371-381.	0.9	111

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19	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
20	2.6: Limiting climate change to 450Âppm CO2 equivalent in the 21st century. Energy Economics, 2009, 31, S107-S120.	5.6	106
21	An integrative modeling framework to evaluate the productivity and sustainability of biofuel crop production systems. GCB Bioenergy, 2010, 2, 258-277.	2.5	106
22	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
23	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 43-65.	1.7	80
24	Efficient multi-objective calibration of a computationally intensive hydrologic model with parallel computing software in Python. Environmental Modelling and Software, 2013, 46, 208-218.	1.9	78
25	Climate mitigation and the future of tropical landscapes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19633-19638.	3.3	76
26	Long-term modeling of soil C erosion and sequestration at the small watershed scale. Climatic Change, 2007, 80, 73-90.	1.7	75
27	Intra-annual changes in biomass, carbon, and nitrogen dynamics at 4-year old switchgrass field trials in west Tennessee, USAâ˜†. Agriculture, Ecosystems and Environment, 2010, 136, 177-184.	2.5	72
28	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. Journal of Climate, 2013, 26, 3657-3670.	1.2	59
29	Toward a normative land systems science. Current Opinion in Environmental Sustainability, 2019, 38, 1-6.	3.1	56
30	Integrated estimates of global terrestrial carbon sequestration. Global Environmental Change, 2008, 18, 192-203.	3.6	55
31	Regional scale cropland carbon budgets: Evaluating a geospatial agricultural modeling system using inventory data. Environmental Modelling and Software, 2015, 63, 199-216.	1.9	55
32	From land use to land cover: restoring the afforestation signal in a coupled integrated assessmentâ€“earth system model and the implications for CMIP5 RCP simulations. Biogeosciences, 2014, 11, 6435-6450.	1.3	49
33	Sustainable intensification in land systems: trade-offs, scales, and contexts. Current Opinion in Environmental Sustainability, 2019, 38, 37-43.	3.1	48
34	An integrated assessment of the potential of agricultural and forestry residues for energy production in <scp>C</scp>hina. GCB Bioenergy, 2016, 8, 880-893.	2.5	46
35	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. Nature Climate Change, 2017, 7, 496-500.	8.1	46
36	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 67-88.	1.7	44

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37	The integrated Earth system model version 1: formulation and functionality. Geoscientific Model Development, 2015, 8, 2203-2219.	1.3	44
38	Greenhouse Gas Emissions and Management Practices that Affect Emissions in US Rice Systems. Journal of Environmental Quality, 2018, 47, 395-409.	1.0	44
39	Response of â€œAlamoâ€•switchgrass tissue chemistry and biomass to nitrogen fertilization in West Tennessee, USA. Agriculture, Ecosystems and Environment, 2011, 140, 289-297.	2.5	42
40	Implications of simultaneously mitigating and adapting to climate change: initial experiments using GCAM. Climatic Change, 2013, 117, 545-560.	1.7	36
41	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. Environmental Research Letters, 2014, 9, 064004.	2.2	36
42	Climate change impacts on US agriculture and forestry: benefits of global climate stabilization. Environmental Research Letters, 2015, 10, 095004.	2.2	35
43	Title is missing!. Climatic Change, 2002, 54, 141-164.	1.7	31
44	Interactions between land systems and food systems. Current Opinion in Environmental Sustainability, 2019, 38, 60-67.	3.1	30
45	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
46	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 7-25.	1.7	26
47	On linking an Earth system model to the equilibrium carbon representation of an economically optimizing land use model. Geoscientific Model Development, 2014, 7, 2545-2555.	1.3	26
48	Evaluation of climate change impacts and effectiveness of adaptation options on crop yield in the Southeastern United States. Field Crops Research, 2017, 214, 228-238.	2.3	26
49	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
50	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
51	Meeting the radiative forcing targets of the representative concentration pathways in a world with agricultural climate impacts. Earth's Future, 2014, 2, 83-98.	2.4	25
52	Evaluation of Three Field-Based Methods for Quantifying Soil Carbon. PLoS ONE, 2013, 8, e55560.	1.1	22
53	Science in the Supply Chain: Collaboration Opportunities for Advancing Sustainable Agriculture in the United States. Agricultural and Environmental Letters, 2017, 2, 170015.	0.8	22
54	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 27-41.	1.7	21

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55	Sensitivity of climate mitigation strategies to natural disturbances. Environmental Research Letters, 2013, 8, 015018.	2.2	21
56	Multi-scale geospatial agroecosystem modeling: A case study on the influence of soil data resolution on carbon budget estimates. Science of the Total Environment, 2014, 479-480, 138-150.	3.9	21
57	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 89-105.	1.7	20
58	What do near-term observations tell us about long-term developments in greenhouse gas emissions?. Climatic Change, 2010, 103, 635-642.	1.7	20
59	Multi-Year Lags between Forest Browning and Soil Respiration at High Northern Latitudes. PLoS ONE, 2012, 7, e50441.	1.1	18
60	Comment on â€œModeling Miscanthus in the Soil and Water Assessment Tool (SWAT) to Simulate Its Water Quality Effects As a Bioenergy Cropâ€• Environmental Science & Technology, 2011, 45, 6211-6212.	4.6	17
61	The contribution of future agricultural trends in the US Midwest to global climate change mitigation. Global Environmental Change, 2014, 24, 143-154.	3.6	17
62	Terrestrial biological carbon sequestration: Science for enhancement and implementation. Geophysical Monograph Series, 2009, , 73-88.	0.1	15
63	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. Climatic Change, 2005, 69, 107-126.	1.7	13
64	Evaluating the Efficiency of a Multi-core Aware Multi-objective Optimization Tool for Calibrating the SWAT Model. Transactions of the ASABE, 2012, 55, 1723-1731.	1.1	10
65	Focus on agriculture and forestry benefits of reducing climate change impacts. Environmental Research Letters, 2017, 12, 060301.	2.2	10
66	Evaluation of climate change impacts and effectiveness of adaptation options on nitrate loss, microbial respiration, and soil organic carbon in the Southeastern USA. Agricultural Systems, 2021, 193, 103210.	3.2	6
67	Assessment of the importance of spatial scale in long-term land use modeling of the Midwestern United States. Environmental Modelling and Software, 2015, 72, 261-271.	1.9	4
68	Near-term limits to mitigation: Challenges arising from contrary mitigation effects from indirect land-use change and sulfur emissions. Energy Economics, 2014, 42, 233-239.	5.6	3
69	Climate Change Impacts for the Conterminous USA: An Integrated Assessment. , 2005, , 27-41.		2