

Philip K Thornton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146 papers	14,651 citations	61 h-index	120 g-index
154 ext. papers	17,534 ext. citations	7 avg, IF	6.85 L-index

#	Paper	IF	Citations
146	Perspective: The gap between intent and climate action in agriculture. <i>Global Food Security</i> , 2022 , 32, 100612	8.3	1
145	Viewpoint: Aligning vision and reality in publicly funded agricultural research for development: A case study of CGIAR. <i>Food Policy</i> , 2022 , 107, 102196	5	0
144	Continuity and change in the contemporary Pacific food system. <i>Global Food Security</i> , 2022 , 32, 100608	8.3	0
143	Impacts of heat stress on global cattle production during the 21st century: a modelling study.. <i>Lancet Planetary Health, The</i> , 2022 , 6, e192-e201	9.8	5
142	How to swarm? Organizing for sustainable and equitable food systems transformation in a time of crisis. <i>Global Food Security</i> , 2022 , 33, 100629	8.3	0
141	Socio-Technical Innovation Bundles for Agri-Food Systems Transformation. <i>Sustainable Development Goals Series</i> , 2022 , 1-20	0.5	0
140	Impact Pathways. <i>Sustainable Development Goals Series</i> , 2022 , 169-175	0.5	
139	Technical Appendix. <i>Sustainable Development Goals Series</i> , 2022 , 187-190	0.5	
138	A Profuse Pipeline of Promising Options. <i>Sustainable Development Goals Series</i> , 2022 , 73-158	0.5	
137	The State of Agri-Food Systems and Agri-Food Value Chains in 2020. <i>Sustainable Development Goals Series</i> , 2022 , 21-45	0.5	
136	Socio-Technical Innovation Bundles Tailored to Distinct Agri-Food Systems. <i>Sustainable Development Goals Series</i> , 2022 , 159-168	0.5	
135	Food security outcomes in agricultural systems models: Case examples and priority information needs. <i>Agricultural Systems</i> , 2021 , 188, 103030	6.1	8
134	Conceptual framing to link climate risk assessments and climate-migration scholarship. <i>Climatic Change</i> , 2021 , 165, 1	4.5	7
133	Food systems for peace and security in a climate crisis. <i>Lancet Planetary Health, The</i> , 2021 , 5, e249-e250	9.8	3
132	In pursuit of a better world: crop improvement and the CGIAR. <i>Journal of Experimental Botany</i> , 2021 , 72, 5158-5179	7	7
131	How climate change interacts with inequity to affect nutrition. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021 , 12, e696	8.4	4
130	Articulating the effect of food systems innovation on the Sustainable Development Goals. <i>Lancet Planetary Health, The</i> , 2021 , 5, e50-e62	9.8	48

129	Increases in extreme heat stress in domesticated livestock species during the twenty-first century. <i>Global Change Biology</i> , 2021 , 27, 5762-5772	11.4	10
128	COVID-19 pandemic lessons for agri-food systems innovation. <i>Environmental Research Letters</i> , 2021 , 16, 101001	6.2	2
127	Suitability of root, tuber, and banana crops in Central Africa can be favoured under future climates. <i>Agricultural Systems</i> , 2021 , 193, 103246	6.1	1
126	Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020 , 1, 266-272	11.4	121
125	What can COVID-19 teach us about responding to climate change?. <i>Lancet Planetary Health</i> , 2020 , 4, e174	9.8	19
124	High-resolution and bias-corrected CMIP5 projections for climate change impact assessments. <i>Scientific Data</i> , 2020 , 7, 7	8.2	81
123	Understanding Climate from the Ground Up: Knowledge of Environmental Changes in the East African Savannas. <i>Ethnobiology</i> , 2020 , 221-242	0.7	1
122	Perspective article: Actions to reconfigure food systems. <i>Global Food Security</i> , 2020 , 26, 100432	8.3	12
121	Multiple cropping systems of the world and the potential for increasing cropping intensity. <i>Global Environmental Change</i> , 2020 , 64, 102131	10.1	35
120	The value of climate-resilient seeds for smallholder adaptation in sub-Saharan Africa. <i>Climatic Change</i> , 2020 , 162, 1213-1229	4.5	9
119	Science-policy interfaces for sustainable climate-smart agriculture uptake: lessons learnt from national science-policy dialogue platforms in West Africa. <i>International Journal of Agricultural Sustainability</i> , 2019 , 17, 367-382	2.2	13
118	Importance of considering technology growth in impact assessments of climate change on agriculture. <i>Global Food Security</i> , 2019 , 23, 41-48	8.3	23
117	Climate change and variability impacts on grazing herds: Insights from a system dynamics approach for semi-arid Australian rangelands. <i>Global Change Biology</i> , 2019 , 25, 3091-3109	11.4	29
116	Supporting sustainable expansion of livestock production in South Asia and Sub-Saharan Africa: Scenario analysis of investment options. <i>Global Food Security</i> , 2019 , 20, 114-121	8.3	31
115	Altered grazing systems: pastoralism to conventional agriculture 2019 , 257-275		
114	Can Climate Interventions Open Up Space for Transformation? Examining the Case of Climate-Smart Agriculture (CSA) in Uganda. <i>Frontiers in Sustainable Food Systems</i> , 2019 , 3,	4.8	9
113	How much does climate change add to the challenge of feeding the planet this century?. <i>Environmental Research Letters</i> , 2019 , 14, 043001	6.2	17
112	Agricultural diversification as an important strategy for achieving food security in Africa. <i>Global Change Biology</i> , 2018 , 24, 3390-3400	11.4	66

111	Grazing systems expansion and intensification: Drivers, dynamics, and trade-offs. <i>Global Food Security</i> , 2018 , 16, 93-105	8.3	41
110	Evaluating agricultural trade-offs in the age of sustainable development. <i>Agricultural Systems</i> , 2018 , 163, 73-88	6.1	99
109	Is agricultural adaptation to global change in lower-income countries on track to meet the future food production challenge?. <i>Global Environmental Change</i> , 2018 , 52, 37-48	10.1	50
108	Institutional Perspectives of Climate-Smart Agriculture: A Systematic Literature Review. <i>Sustainability</i> , 2018 , 10, 1990	3.6	48
107	Scaling up agricultural interventions: Case studies of climate-smart agriculture. <i>Agricultural Systems</i> , 2018 , 165, 283-293	6.1	61
106	Multi-objective land use allocation modelling for prioritizing climate-smart agricultural interventions. <i>Ecological Modelling</i> , 2018 , 381, 23-35	3	28
105	Using Biotechnology-Led Approaches to Uplift Cereal and Food Legume Yields in Dryland Environments. <i>Frontiers in Plant Science</i> , 2018 , 9, 1249	6.2	13
104	Facilitating Change for Climate-Smart Agriculture through Science-Policy Engagement. <i>Sustainability</i> , 2018 , 10, 2616	3.6	21
103	A Qualitative Evaluation of CSA Options in Mixed Crop-Livestock Systems in Developing Countries. <i>Natural Resource Management and Policy</i> , 2018 , 385-423	0.2	7
102	Can scenario planning catalyse transformational change? Evaluating a climate change policy case study in Mali. <i>Futures</i> , 2018 , 96, 44-56	3.6	24
101	Climate change impacts on selected global rangeland ecosystem services. <i>Global Change Biology</i> , 2018 , 24, 1382-1393	11.4	63
100	Transformation in Practice: A Review of Empirical Cases of Transformational Adaptation in Agriculture Under Climate Change. <i>Frontiers in Sustainable Food Systems</i> , 2018 , 2,	4.8	52
99	A framework for priority-setting in climate smart agriculture research. <i>Agricultural Systems</i> , 2018 , 167, 161-175	6.1	48
98	The economic potential of residue management and fertilizer use to address climate change impacts on mixed smallholder farmers in Burkina Faso. <i>Agricultural Systems</i> , 2018 , 167, 195-205	6.1	14
97	The climate-smart village approach: framework of an integrative strategy for scaling up adaptation options in agriculture. <i>Ecology and Society</i> , 2018 , 23,	4.1	69
96	Interactions between intervention packages, climatic risk, climate change and food security in mixed crop/livestock systems in Burkina Faso. <i>Agricultural Systems</i> , 2017 , 151, 217-224	6.1	27
95	Responding to global change: A theory of change approach to making agricultural research for development outcome-based. <i>Agricultural Systems</i> , 2017 , 152, 145-153	6.1	65
94	Farming and the geography of nutrient production for human use: a transdisciplinary analysis. <i>Lancet Planetary Health</i> , 2017 , 1, e33-e42	9.8	188

93	Linking regional stakeholder scenarios and shared socioeconomic pathways: Quantified West African food and climate futures in a global context. <i>Global Environmental Change</i> , 2017 , 45, 227-242	10.1	71
92	Prioritizing climate-smart agricultural land use options at a regional scale. <i>Agricultural Systems</i> , 2017 , 151, 174-183	6.1	32
91	Markets and climate are driving rapid change in farming practices in Savannah West Africa. <i>Regional Environmental Change</i> , 2017 , 17, 437-449	4.3	14
90	Pathway to Impact: Supporting and Evaluating Enabling Environments for Research for Development 2017 , 53-79		3
89	Reducing risks to food security from climate change. <i>Global Food Security</i> , 2016 , 11, 34-43	8.3	267
88	Reducing emissions from agriculture to meet the 2°C target. <i>Global Change Biology</i> , 2016 , 22, 3859-3864	11.4	203
87	Greenhouse gas mitigation potentials in the livestock sector. <i>Nature Climate Change</i> , 2016 , 6, 452-461	21.4	376
86	Linking agricultural adaptation strategies, food security and vulnerability: evidence from West Africa. <i>Regional Environmental Change</i> , 2016 , 16, 1305-1317	4.3	72
85	Methods for Environment: Productivity Trade-Off Analysis in Agricultural Systems 2016 , 189-198		
84	Connecting Women, Connecting Men: How Communities and Organizations Interact to Strengthen Adaptive Capacity and Food Security in the Face of Climate Change. <i>Gender, Technology and Development</i> , 2016 , 20, 169-199	1.7	17
83	Grazing lands in Sub-Saharan Africa and their potential role in climate change mitigation: What we do and don't know. <i>Environmental Development</i> , 2016 , 19, 70-74	4.1	13
82	Mapping global cropland and field size. <i>Global Change Biology</i> , 2015 , 21, 1980-92	11.4	312
81	Representative soil profiles for the Harmonized World Soil Database at different spatial resolutions for agricultural modelling applications. <i>Agricultural Systems</i> , 2015 , 139, 93-99	6.1	26
80	High carbon and biodiversity costs from converting Africa's wet savannahs to cropland. <i>Nature Climate Change</i> , 2015 , 5, 481-486	21.4	85
79	How resilient are farming households and communities to a changing climate in Africa? A gender-based perspective. <i>Global Environmental Change</i> , 2015 , 34, 95-107	10.1	124
78	Adapting to climate change in the mixed crop and livestock farming systems in sub-Saharan Africa. <i>Nature Climate Change</i> , 2015 , 5, 830-836	21.4	116
77	Livestock and the Environment: What Have We Learned in the Past Decade?. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 177-202	17.2	145
76	Improved global cropland data as an essential ingredient for food security. <i>Global Food Security</i> , 2015 , 4, 37-45	8.3	77

75	Climate variability and vulnerability to climate change: a review. <i>Global Change Biology</i> , 2014 , 20, 3313-28	1.4	468
74	Exploring future changes in smallholder farming systems by linking socio-economic scenarios with regional and household models. <i>Global Environmental Change</i> , 2014 , 24, 165-182	10.1	82
73	Analysis of trade-offs in agricultural systems: current status and way forward. <i>Current Opinion in Environmental Sustainability</i> , 2014 , 6, 110-115	7.2	79
72	Sustainable intensification: What is its role in climate smart agriculture?. <i>Current Opinion in Environmental Sustainability</i> , 2014 , 8, 39-43	7.2	266
71	Climate change adaptation in mixed crop-livestock systems in developing countries. <i>Global Food Security</i> , 2014 , 3, 99-107	8.3	81
70	Challenges to scenario-guided adaptive action on food security under climate change. <i>Global Environmental Change</i> , 2014 , 28, 383-394	10.1	139
69	Climate change mitigation through livestock system transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3709-14	11.5	305
68	Climate-smart agriculture for food security. <i>Nature Climate Change</i> , 2014 , 4, 1068-1072	21.4	770
67	Back to baselines: measuring change and sharing data. <i>Agriculture and Food Security</i> , 2014 , 3,	3.1	13
66	Implications of regional improvement in global climate models for agricultural impact research. <i>Environmental Research Letters</i> , 2013 , 8, 024018	6.2	76
65	Transitions in agro-pastoralist systems of East Africa: Impacts on food security and poverty. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 179, 215-230	5.7	88
64	Agriculture. Sustainable intensification in agriculture: premises and policies. <i>Science</i> , 2013 , 341, 33-4	33.3	957
63	Use of agro-climate ensembles for quantifying uncertainty and informing adaptation. <i>Agricultural and Forest Meteorology</i> , 2013 , 170, 2-7	5.8	48
62	Livestock and global change: emerging issues for sustainable food systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20878-81	11.5	190
61	Generating downscaled weather data from a suite of climate models for agricultural modelling applications. <i>Agricultural Systems</i> , 2013 , 114, 1-5	6.1	122
60	Biomass use, production, feed efficiencies, and greenhouse gas emissions from global livestock systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20888-93	11.5	626
59	Addressing uncertainty in adaptation planning for agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8357-62	11.5	176
58	The Need for Improved Maps of Global Cropland. <i>Eos</i> , 2013 , 94, 31-32	1.5	52

57	Options for support to agriculture and food security under climate change. <i>Environmental Science and Policy</i> , 2012 , 15, 136-144	6.2	243
56	East African food security as influenced by future climate change and land use change at local to regional scales. <i>Climatic Change</i> , 2012 , 110, 823-844	4.5	54
55	Is Proactive Adaptation to Climate Change Necessary in Grazed Rangelands?. <i>Rangeland Ecology and Management</i> , 2012 , 65, 563-568	2.2	27
54	A method for evaluating climate change adaptation strategies for small-scale farmers using survey, experimental and modeled data. <i>Agricultural Systems</i> , 2012 , 111, 85-95	6.1	100
53	Climate change, agriculture and food security: a global partnership to link research and action for low-income agricultural producers and consumers. <i>Current Opinion in Environmental Sustainability</i> , 2012 , 4, 128-133	7.2	47
52	Are food insecure smallholder households making changes in their farming practices? Evidence from East Africa. <i>Food Security</i> , 2012 , 4, 381-397	6.7	106
51	Using Coupled Simulation Models to Link Pastoral Decision Making and Ecosystem Services. <i>Ecology and Society</i> , 2011 , 16,	4.1	27
50	Agriculture and food systems in sub-Saharan Africa in a 4°C+ world. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 117-36	3	234
49	Implications of future climate and atmospheric CO2 content for regional biogeochemistry, biogeography and ecosystem services across East Africa. <i>Global Change Biology</i> , 2010 , 16, 617-640	11.4	65
48	Potential for reduced methane and carbon dioxide emissions from livestock and pasture management in the tropics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19667-72	11.5	177
47	Livestock production: recent trends, future prospects. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 2853-67	5.8	1050
46	Adapting to climate change: Agricultural system and household impacts in East Africa. <i>Agricultural Systems</i> , 2010 , 103, 73-82	6.1	140
45	Smart investments in sustainable food production: revisiting mixed crop-livestock systems. <i>Science</i> , 2010 , 327, 822-5	33.3	498
44	Climate change and the growth of the livestock sector in developing countries. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2010 , 15, 169-184	3.9	75
43	The Inter-Linkages Between Rapid Growth In Livestock Production, Climate Change, And The Impacts On Water Resources, Land Use, And Deforestation. <i>Policy Research Working Papers</i> , 2010 ,	2.1	32
42	Livestock, livelihoods and the environment: understanding the trade-offs. <i>Current Opinion in Environmental Sustainability</i> , 2009 , 1, 111-120	7.2	214
41	Croppers to livestock keepers: livelihood transitions to 2050 in Africa due to climate change. <i>Environmental Science and Policy</i> , 2009 , 12, 427-437	6.2	191
40	The impacts of climate change on livestock and livestock systems in developing countries: A review of what we know and what we need to know. <i>Agricultural Systems</i> , 2009 , 101, 113-127	6.1	494

39	Spatial variation of crop yield response to climate change in East Africa. <i>Global Environmental Change</i> , 2009 , 19, 54-65	10.1	264
38	Integrating diverse methods to understand climateLand interactions in East Africa. <i>Geoforum</i> , 2008 , 39, 898-911	2.9	61
37	Carbon sequestration and farm income in West Africa: Identifying best management practices for smallholder agricultural systems in northern Ghana. <i>Ecological Economics</i> , 2008 , 67, 492-502	5.6	32
36	Fragmentation of rangelands: Implications for humans, animals, and landscapes. <i>Global Environmental Change</i> , 2008 , 18, 776-785	10.1	181
35	Elephants or onions? Paying for nature in Amboseli, Kenya. <i>Environment and Development Economics</i> , 2008 , 13, 395-414	1.8	31
34	Systems dynamics and the spatial distribution of methane emissions from African domestic ruminants to 2030. <i>Agriculture, Ecosystems and Environment</i> , 2008 , 126, 122-137	5.7	87
33	Ngorongoro Conservation Area, Tanzania: Fragmentation of a Unique Region of the Greater Serengeti Ecosystem 2008 , 255-279		5
32	Factors affecting the use of fertilizers and manure by smallholders: the case of Vihiga, western Kenya. <i>Nutrient Cycling in Agroecosystems</i> , 2007 , 78, 211-224	3.3	68
31	Coping Strategies in Livestock-dependent Households in East and Southern Africa: A Synthesis of Four Case Studies. <i>Human Ecology</i> , 2007 , 35, 461-476	2	83
30	Using the WISE database to parameterize soil inputs for crop simulation models. <i>Computers and Electronics in Agriculture</i> , 2007 , 56, 85-100	6.5	58
29	Modelling the impacts of group ranch subdivision on agro-pastoral households in Kajiado, Kenya. <i>Agricultural Systems</i> , 2006 , 87, 331-356	6.1	58
28	Bio-economic evaluation of farmersPerceptions of viable farms in western Kenya. <i>Agricultural Systems</i> , 2006 , 90, 243-271	6.1	63
27	Integrated Modeling and its Potential for Resolving Conflicts between Conservation and People in the Rangelands of East Africa. <i>Human Ecology</i> , 2006 , 34, 155-183	2	42
26	Cultivation and Conservation in Ngorongoro Conservation Area, Tanzania. <i>Human Ecology</i> , 2006 , 34, 809-828	2	32
25	Quantifying Declines in Livestock Due to Land Subdivision. <i>Rangeland Ecology and Management</i> , 2005 , 58, 523-532	2.2	55
24	Climate variability and impacts on east African livestock herders: the Maasai of Ngorongoro Conservation Area, Tanzania. <i>African Journal of Range and Forage Science</i> , 2004 , 21, 183-189	1.5	43
23	Loss and fragmentation of habitat for pastoral people and wildlife in east Africa: concepts and issues. <i>African Journal of Range and Forage Science</i> , 2004 , 21, 171-181	1.5	37
22	Household-level Impacts of Dairy Cow Ownership in Coastal Kenya. <i>Journal of Agricultural Economics</i> , 2004 , 55, 175-195	3.7	21

21	Is it possible to mitigate greenhouse gas emissions in pastoral ecosystems of the tropics?. <i>Environment, Development and Sustainability</i> , 2004 , 6, 91-109	4.5	49
20	Is It Possible to Mitigate Greenhouse Gas Emissions in Pastoral Ecosystems of the Tropics? 2004 , 91-109		3
19	Locating poor livestock keepers at the global level for research and development targeting. <i>Land Use Policy</i> , 2003 , 20, 311-322	5.6	25
18	Maize as food and feed in intensive smallholder systems: management options for improved integration in mixed farming systems of east and southern Africa. <i>Field Crops Research</i> , 2003 , 84, 159-168	5.5	40
17	Mapping livestock-oriented agricultural production systems for the developing world. <i>Agricultural Systems</i> , 2003 , 77, 39-63	6.1	80
16	The potential impacts of climate change on maize production in Africa and Latin America in 2055. <i>Global Environmental Change</i> , 2003 , 13, 51-59	10.1	553
15	Spatial Modeling of Risk in Natural Resource Management. <i>Ecology and Society</i> , 2002 , 5,		22
14	Integrated crop-livestock simulation models for scenario analysis and impact assessment. <i>Agricultural Systems</i> , 2001 , 70, 581-602	6.1	127
13	Human population growth and the extinction of the tsetse fly. <i>Agriculture, Ecosystems and Environment</i> , 2000 , 77, 227-236	5.7	67
12	MarkSim: Software to Generate Daily Weather Data for Latin America and Africa. <i>Agronomy Journal</i> , 2000 , 92, 445-453	2.2	109
11	Estimating millet production for famine early warning: an application of crop simulation modelling using satellite and ground-based data in Burkina Faso. <i>Agricultural and Forest Meteorology</i> , 1997 , 83, 95-112	5.8	63
10	Spatial and temporal variability of rainfall related to a third-order Markov model. <i>Agricultural and Forest Meteorology</i> , 1997 , 86, 127-138	5.8	45
9	A Computer Program for Geostatistical and Spatial Analysis of Crop Model Outputs. <i>Agronomy Journal</i> , 1997 , 89, 620-627	2.2	19
8	A Computer Program to Analyze Multiple-Season Crop Model Outputs. <i>Agronomy Journal</i> , 1995 , 87, 131-136	2.2	41
7	Application of a Maize Crop Simulation Model in the Central Region of Malawi. <i>Experimental Agriculture</i> , 1995 , 31, 213-226	1.7	36
6	A Computer Program to Analyze Single-Season Crop Model Outputs. <i>Agronomy Journal</i> , 1994 , 86, 860-868	2.2	46
5	A rainfall generator for agricultural applications in the tropics. <i>Agricultural and Forest Meteorology</i> , 1993 , 63, 1-19	5.8	44
4	Using Crop Models for Sustainability and Environmental Quality Assessment. <i>Outlook on Agriculture</i> , 1992 , 21, 209-218	2.9	18

- 3 Spatial weed distribution and economic thresholds for weed control. *Crop Protection*, **1990**, 9, 337-342 2.7 103
- 2 Colony dimorphism in bradyrhizobium strains. *Applied and Environmental Microbiology*, **1988**, 54, 1033-8 4.8 12
- 1 How Does Climate Change Alter Agricultural Strategies to Support Food Security?. *SSRN Electronic Journal*, 1 13