RESEARCH & PUBLICATIONS

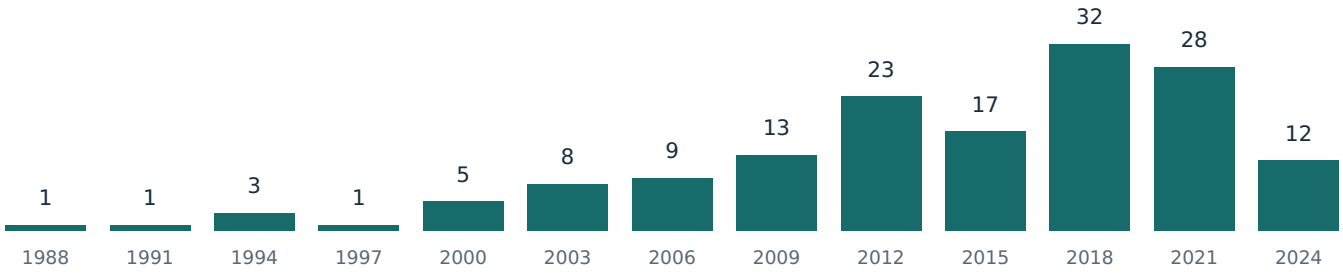
Philip K. Thornton

A publication record at a glance

153	20,748	65
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

Climate-Smart Agriculture for Food Security — 1,769
2014 Nature Climate Change

Livestock Production: Recent Trends, Future Prospects — 1,653
2010 Philosophical Transactions of the Royal Society B: Biological Sciences

Climate Variability and Vulnerability to Climate Change: A Review — 1,023
2014 Global Change Biology

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2026

01 Food Systems Transformation Would Reshape Global Agriculture
3 citations
Nature · 657, 156-163
https://exaly.com/article/216097666

02 Where Does Decentralised Green Nitrogen Fit in Africa's Fertiliser Resilience Strategy?
1 citations
Food Security · 18, 1323-1331
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2025

03 Compatibility of Pastoralism and Conservation?
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04 3 Compatibility of Pastoralism and Conservation? A Test Case Using Integrated Assessment in the Ngorongoro Conservation Area, Tanzania
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05 Options for a Just Transition for Livestock Under Climate Change
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06 Rigorous Anticipatory Governance Is Needed for Responsible Food System Transformation
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Nature Food · 6, 920-926
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07 Harvesting Hope for Climate Action and Food Systems in a Grave New World
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Outlook on Agriculture · 54, 313-322
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08 Enabling Food System Innovation: Accelerators for Change
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https://exaly.com/article/175417943

09 A Global Clustering of Terrestrial Food Production Systems
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2024 / continued

10 **Assessing and Addressing the Global State of Food Production Data Scarcity**
72 citations
Nature Reviews Earth & Environment · 5, 295-311
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11 **Has Process Hijacked Purpose? Outlook on Food Systems Transformation in the Global Climate Change Processes**
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12 **Resilient Livelihoods in Africa's Pastoral–Agropastoral Transition Zones Will Increasingly Depend on Heat Stress Adaptation and Systemic Change**
8 citations
Nature Food · 5, 976-981
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13 **Perspective: What Might It Cost to Reconfigure Food Systems?**
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Global Food Security · 36, 100669
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14 **Transforming Food Systems Under Climate Change Through Innovation**
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15 **Theories of Change for Transformation**
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16 **Where We Need to Drive Food-System Action**
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17 **Mixed Farming Systems: Potentials and Barriers for Climate Change Adaptation in Food Systems**
55 citations
Current Opinion in Environmental Sustainability · 62, 101270
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18 **Priority Areas for Investment in More Sustainable and Climate-Resilient Livestock Systems**
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19 **Global Hotspots of Climate Change Adaptation and Mitigation in Agriculture**
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20 **Innovations for Reconfiguring Food Systems**
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21 **Viewpoint: Aligning Vision and Reality in Publicly Funded Agricultural Research for Development: A Case Study of CGIAR**
Food Policy · 107, 102196
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22 **Continuity and Change in the Contemporary Pacific Food System**
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23 **Perspective: The Gap Between Intent and Climate Action in Agriculture**
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24 **Impacts of Heat Stress on Global Cattle Production During the 21st Century: A Modelling Study**
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25 **How to Swarm? Organizing for Sustainable and Equitable Food Systems Transformation in a Time of Crisis**
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26 **Strategizing Research and Development Investments in Climate Change Adaptation for Root, Tuber and Banana Crops in the African Great Lakes Region: A Spatial Prioritisation and Targeting Framework**
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28 **What Does Transforming Food Systems Actually Mean?**
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29 **Priorities for Investing in Low-Emissions and Climate-Resilient Livestock Production Systems.**
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30 **Climate Change and Land-Use Change Impacts on Future Availability of Forage Grass Species for Ethiopian Dairy Systems**
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31 **Upping Our Ambition for Food System Adaptation**
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32 **What Does CGIAR Do to Address Climate Change? Perspectives From a Decade of Science on Climate Change Adaptation and Mitigation**
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33 **How Climate Change Interacts With Inequity to Affect Nutrition**
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34 **Food Security Outcomes in Agricultural Systems Models: Case Examples and Priority Information Needs**
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35 **Conceptual Framing to Link Climate Risk Assessments and Climate-Migration Scholarship**
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36 **Food Systems for Peace and Security in a Climate Crisis**
Lancet Planetary Health, The · 5, e249-e250
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37 **In Pursuit of a Better World: Crop Improvement and the CGIAR.**
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38 **Increases in Extreme Heat Stress in Domesticated Livestock Species During the Twenty-First Century**
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Global Change Biology · 27, 5762-5772
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39 **COVID-19 Pandemic Lessons for Agri-Food Systems Innovation**
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40 **Suitability of Root, Tuber, and Banana Crops in Central Africa Can Be Favoured Under Future Climates**
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Agricultural Systems · 193, 103246
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41 **Multiple Cropping Systems of the World and the Potential for Increasing Cropping Intensity**
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42 **The Value of Climate-Resilient Seeds for Smallholder Adaptation in Sub-Saharan Africa**
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43 **Bundling Innovations to Transform Agri-Food Systems**
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44 **Innovation Can Accelerate the Transition Towards a Sustainable Food System**
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45 **What Can COVID-19 Teach Us About Responding to Climate Change?**
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46 **Perspective Article: Actions to Reconfigure Food Systems**
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47 The Impact of CGIAR Centre Research on Use of Planted Forages by Tropical Smallholders. — 2 citations
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48 Understanding Climate From the Ground Up: Knowledge of Environmental Changes in the East African Savannas — 4 citations
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50 Rangeland Ecology. — 1 citations
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52 Science-Policy Interfaces for Sustainable Climate-Smart Agriculture Uptake: Lessons Learnt From National Science-Policy Dialogue Platforms in West Africa — 38 citations
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53 Importance of Considering Technology Growth in Impact Assessments of Climate Change on Agriculture — 86 citations
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54 Climate Change and Variability Impacts on Grazing Herds: Insights From a System Dynamics Approach for Semi-Arid Australian Rangelands — 83 citations
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55 Supporting Sustainable Expansion of Livestock Production in South Asia and Sub-Saharan Africa: Scenario Analysis of Investment Options — 79 citations
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56 **Can Climate Interventions Open Up Space for Transformation? Examining the Case of Climate-Smart Agriculture (CSA) in Uganda** — 21 citations
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57 **How Much Does Climate Change Add to the Challenge of Feeding the Planet This Century?** — 49 citations
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58 **Agricultural Diversification as an Important Strategy for Achieving Food Security in Africa** — 224 citations
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59 **Grazing Systems Expansion and Intensification: Drivers, Dynamics, and Trade-Offs** — 116 citations
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60 **Evaluating Agricultural Trade-Offs in the Age of Sustainable Development** — 277 citations
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61 **Can Scenario Planning Catalyse Transformational Change? Evaluating a Climate Change Policy Case Study in Mali** — 43 citations
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62 **Transformation in Practice: A Review of Empirical Cases of Transformational Adaptation in Agriculture Under Climate Change** — 149 citations
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63 **Agriculture in a Changing Climate: Keeping Our Cool in the Face of the Hothouse** — 54 citations
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64 **A Framework for Priority-Setting in Climate Smart Agriculture Research** — 151 citations
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66 The Climate-Smart Village Approach: Framework of an Integrative Strategy for Scaling Up Adaptation Options in Agriculture
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67 Is Agricultural Adaptation to Global Change in Lower-Income Countries on Track to Meet the Future Food Production Challenge?
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68 Institutional Perspectives of Climate-Smart Agriculture: A Systematic Literature Review
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70 Multi-Objective Land Use Allocation Modelling for Prioritizing Climate-Smart Agricultural Interventions
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71 Using Biotechnology-Led Approaches to Uplift Cereal and Food Legume Yields in Dryland Environments
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73 Responding to Global Change: A Theory of Change Approach to Making Agricultural Research for Development Outcome-Based
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75 **Linking Regional Stakeholder Scenarios and Shared Socioeconomic Pathways: Quantified West African Food and Climate Futures in a Global Context**
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76 **Markets and Climate Are Driving Rapid Change in Farming Practices in Savannah West Africa**
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77 **Pathway to Impact: Supporting and Evaluating Enabling Environments for Research for Development**
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78 **Connecting Women, Connecting Men: How Communities and Organizations Interact to Strengthen Adaptive Capacity and Food Security in the Face of Climate Change**
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Gender, Technology and Development · 20, 169-199
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79 **Grazing Lands in Sub-Saharan Africa and Their Potential Role in Climate Change Mitigation: What We Do and Don't Know**
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80 **Reducing Risks to Food Security From Climate Change**
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81 **Greenhouse Gas Mitigation Potentials in the Livestock Sector**
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82 **Linking Agricultural Adaptation Strategies, Food Security and Vulnerability: Evidence From West Africa**
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84 **Mapping Global Cropland and Field Size** — 466 citations
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85 **Representative Soil Profiles for the Harmonized World Soil Database at Different Spatial Resolutions for Agricultural Modelling Applications** — 46 citations
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86 **High Carbon and Biodiversity Costs From Converting Africa's Wet Savannahs to Cropland** — 119 citations
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87 **Adapting to Climate Change in the Mixed Crop and Livestock Farming Systems in Sub-Saharan Africa** — 234 citations
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88 **Livestock and the Environment: What Have We Learned in the Past Decade?** — 285 citations
Annual Review of Environment and Resources · 40, 177-202
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89 **Improved Global Cropland Data as an Essential Ingredient for Food Security** — 139 citations
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90 **Climate Change Mitigation Through Livestock System Transitions** — 503 citations
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94 **Climate Variability and Vulnerability to Climate Change: A Review** — 1,023 citations
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95 **Exploring Future Changes in Smallholder Farming Systems by Linking Socio-Economic Scenarios With Regional and Household Models** — 120 citations
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96 **Analysis of Trade-Offs in Agricultural Systems: Current Status and Way Forward** — 140 citations
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97 **Social Learning and Sustainable Development** — 80 citations
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98 **Sustainable Intensification: What Is Its Role in Climate Smart Agriculture?** — 465 citations
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101 **Implications of Regional Improvement in Global Climate Models for Agricultural Impact Research** — 109 citations
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103 **Generating Downscaled Weather Data From a Suite of Climate Models for Agricultural Modelling Applications**
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104 **Biomass Use, Production, Feed Efficiencies, and Greenhouse Gas Emissions From Global Livestock Systems**
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105 **Addressing Uncertainty in Adaptation Planning for Agriculture**
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106 **The Need for Improved Maps of Global Cropland**
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107 **Potential Impact of Climate Change on Resilience and Livelihoods in Mixed Crop-Livestock Systems in East Africa**
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