

Thomas A M Pugh

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

10,583
citations

66343

42
h-index

42399

92
g-index

143
all docs

143
docs citations

143
times ranked

14160
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Agricultural breadbaskets shift poleward given adaptive farmer behavior under climate change. <i>Global Change Biology</i> , 2022, 28, 167-181. | 9.5 | 23 |
| 2 | Delayed and altered post-fire recovery pathways of Mediterranean shrubland under 20-year drought manipulation. <i>Forest Ecology and Management</i> , 2022, 506, 119970. | 3.2 | 1 |
| 3 | A New Modelling Approach to Adaptation-Mitigation in the Land System. <i>Springer Climate</i> , 2022, , 133-140. | 0.6 | 3 |
| 4 | Are Land Use Change Emissions in Southeast Asia Decreasing or Increasing?. <i>Global Biogeochemical Cycles</i> , 2022, 36, . | 4.9 | 7 |
| 5 | Assessing taxonomic and functional change in British breeding bird assemblages over time. <i>Global Ecology and Biogeography</i> , 2022, 31, 925-939. | 5.8 | 6 |
| 6 | Climate Change Risks to Global Forest Health: Emergence of Unexpected Events of Elevated Tree Mortality Worldwide. <i>Annual Review of Plant Biology</i> , 2022, 73, 673-702. | 18.7 | 117 |
| 7 | Occurrence of crop pests and diseases has largely increased in China since 1970. <i>Nature Food</i> , 2022, 3, 57-65. | 14.0 | 39 |
| 8 | State of science in carbon budget assessments for temperate forests and grasslands. , 2022, , 237-270. | | 0 |
| 9 | Global irrigation contribution to wheat and maize yield. <i>Nature Communications</i> , 2021, 12, 1235. | 12.8 | 61 |
| 10 | Exploring uncertainties in global crop yield projections in a large ensemble of crop models and CMIP5 and CMIP6 climate scenarios. <i>Environmental Research Letters</i> , 2021, 16, 034040. | 5.2 | 53 |
| 11 | Potential yield simulated by global gridded crop models: using a process-based emulator to explain their differences. <i>Geoscientific Model Development</i> , 2021, 14, 1639-1656. | 3.6 | 6 |
| 12 | Increasing climatic sensitivity of global grassland vegetation biomass and species diversity correlates with water availability. <i>New Phytologist</i> , 2021, 230, 1761-1771. | 7.3 | 36 |
| 13 | Identifying the Drivers of Spatial Taxonomic and Functional Beta-Diversity of British Breeding Birds. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, . | 2.2 | 10 |
| 14 | Concerns about reported harvests in European forests. <i>Nature</i> , 2021, 592, E15-E17. | 27.8 | 56 |
| 15 | Strong regional influence of climatic forcing datasets on global crop model ensembles. <i>Agricultural and Forest Meteorology</i> , 2021, 300, 108313. | 4.8 | 17 |
| 16 | Large potential for crop production adaptation depends on available future varieties. <i>Global Change Biology</i> , 2021, 27, 3870-3882. | 9.5 | 62 |
| 17 | Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021, 260, 108849. | 4.1 | 71 |
| 18 | Climate change projections of terrestrial primary productivity over the Hindu Kush Himalayan forests. <i>Earth System Dynamics</i> , 2021, 12, 857-870. | 7.1 | 5 |

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|----|--|------|-----------|
| 19 | Large-scale variations in the dynamics of Amazon forest canopy gaps from airborne lidar data and opportunities for tree mortality estimates. <i>Scientific Reports</i> , 2021, 11, 1388. | 3.3 | 32 |
| 20 | Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515. | 12.8 | 62 |
| 21 | Polar amplification of Pliocene climate by elevated trace gas radiative forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23401-23407. | 7.1 | 15 |
| 22 | Narrowing uncertainties in the effects of elevated CO ₂ on crops. <i>Nature Food</i> , 2020, 1, 775-782. | 14.0 | 67 |
| 23 | The GGCMI Phase 2 experiment: global gridded crop model simulations under uniform changes in CO ₂ , temperature, water, and nitrogen levels (protocol) <i>Tj ETQq1 1 0.784314 rgB5/Overlaid</i> | 3.6 | 17 |
| 24 | Pervasive shifts in forest dynamics in a changing world. <i>Science</i> , 2020, 368, . | 12.6 | 576 |
| 25 | Interactive climate factors restrict future increases in spring productivity of temperate and boreal trees. <i>Global Change Biology</i> , 2020, 26, 4042-4055. | 9.5 | 34 |
| 26 | A Dynamic Model for Strategies and Dynamics of Plant Water-Potential Regulation Under Drought Conditions. <i>Frontiers in Plant Science</i> , 2020, 11, 373. | 3.6 | 17 |
| 27 | Understanding the uncertainty in global forest carbon turnover. <i>Biogeosciences</i> , 2020, 17, 3961-3989. | 3.3 | 45 |
| 28 | Impacts of future agricultural change on ecosystem service indicators. <i>Earth System Dynamics</i> , 2020, 11, 357-376. | 7.1 | 13 |
| 29 | The GGCMI Phase 2 emulators: global gridded crop model responses to changes in CO ₂ , temperature, water, and nitrogen (version 1.0). <i>Geoscientific Model Development</i> , 2020, 13, 3995-4018. | 3.6 | 19 |
| 30 | Important role of forest disturbances in the global biomass turnover and carbon sinks. <i>Nature Geoscience</i> , 2019, 12, 730-735. | 12.9 | 105 |
| 31 | Parameterization-induced uncertainties and impacts of crop management harmonization in a global gridded crop model ensemble. <i>PLoS ONE</i> , 2019, 14, e0221862. | 2.5 | 42 |
| 32 | Systematic variation in North American tree species abundance distributions along macroecological climatic gradients. <i>Global Ecology and Biogeography</i> , 2019, 28, 601-611. | 5.8 | 10 |
| 33 | The Global Gridded Crop Model Intercomparison phase 1 simulation dataset. <i>Scientific Data</i> , 2019, 6, 50. | 5.3 | 57 |
| 34 | State-of-the-art global models underestimate impacts from climate extremes. <i>Nature Communications</i> , 2019, 10, 1005. | 12.8 | 168 |
| 35 | Role of forest regrowth in global carbon sink dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4382-4387. | 7.1 | 370 |
| 36 | Global Response Patterns of Major Rainfed Crops to Adaptation by Maintaining Current Growing Periods and Irrigation. <i>Earth's Future</i> , 2019, 7, 1464-1480. | 6.3 | 38 |

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|----|---|------|-----------|
| 37 | Adaptation of global land use and management intensity to changes in climate and atmospheric carbon dioxide. <i>Global Change Biology</i> , 2018, 24, 2791-2809. | 9.5 | 50 |
| 38 | Spring photosynthetic onset and net CO_2 uptake in Alaska triggered by landscape thawing. <i>Global Change Biology</i> , 2018, 24, 3416-3435. | 9.5 | 48 |
| 39 | Large uncertainty in carbon uptake potential of land-based climate change mitigation efforts. <i>Global Change Biology</i> , 2018, 24, 3025-3038. | 9.5 | 56 |
| 40 | Plant Regrowth as a Driver of Recent Enhancement of Terrestrial CO_2 Uptake. <i>Geophysical Research Letters</i> , 2018, 45, 4820-4830. | 4.0 | 32 |
| 41 | Land use change and El Niño-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. <i>Nature Communications</i> , 2018, 9, 1154. | 12.8 | 28 |
| 42 | Simulating the recent impacts of multiple biotic disturbances on forest carbon cycling across the United States. <i>Global Change Biology</i> , 2018, 24, 2079-2092. | 9.5 | 26 |
| 43 | Actual European forest management by region, tree species and owner based on 714,000 re-measured trees in national forest inventories. <i>PLoS ONE</i> , 2018, 13, e0207151. | 2.5 | 39 |
| 44 | A Large Committed Long-Term Sink of Carbon due to Vegetation Dynamics. <i>Earth's Future</i> , 2018, 6, 1413-1432. | 6.3 | 24 |
| 45 | Evapotranspiration simulations in ISIMIP2a—Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. <i>Environmental Research Letters</i> , 2018, 13, 075001. | 5.2 | 38 |
| 46 | Global patterns of crop yield stability under additional nutrient and water inputs. <i>PLoS ONE</i> , 2018, 13, e0198748. | 2.5 | 40 |
| 47 | Climate Sensitivity Controls Uncertainty in Future Terrestrial Carbon Sink. <i>Geophysical Research Letters</i> , 2018, 45, 4329-4336. | 4.0 | 16 |
| 48 | Modelling feedbacks between human and natural processes in the land system. <i>Earth System Dynamics</i> , 2018, 9, 895-914. | 7.1 | 65 |
| 49 | Crop productivity changes in 1.5°C and 2°C worlds under climate sensitivity uncertainty. <i>Environmental Research Letters</i> , 2018, 13, 064007. | 5.2 | 79 |
| 50 | Consistent negative response of US crops to high temperatures in observations and crop models. <i>Nature Communications</i> , 2017, 8, 13931. | 12.8 | 321 |
| 51 | Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. <i>Nature Geoscience</i> , 2017, 10, 79-84. | 12.9 | 284 |
| 52 | Global isoprene and monoterpene emissions under changing climate, vegetation, CO_2 and land use. <i>Atmospheric Environment</i> , 2017, 155, 35-45. | 4.1 | 100 |
| 53 | Impact of LULCC on the emission of BVOCs during the 21st century. <i>Atmospheric Environment</i> , 2017, 165, 73-87. | 4.1 | 11 |
| 54 | Spatial and temporal uncertainty of crop yield aggregations. <i>European Journal of Agronomy</i> , 2017, 88, 10-21. | 4.1 | 63 |

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|----|--|------|-----------|
| 55 | Understanding the weather signal in national crop yield variability. <i>Earth's Future</i> , 2017, 5, 605-616. | 6.3 | 85 |
| 56 | Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations. <i>Biogeosciences</i> , 2017, 14, 5053-5067. | 3.3 | 58 |
| 57 | Global consequences of afforestation and bioenergy cultivation on ecosystem service indicators. <i>Biogeosciences</i> , 2017, 14, 4829-4850. | 3.3 | 33 |
| 58 | Current challenges of implementing anthropogenic land-use and land-cover change in models contributing to climate change assessments. <i>Earth System Dynamics</i> , 2017, 8, 369-386. | 7.1 | 69 |
| 59 | Global gridded crop model evaluation: benchmarking, skills, deficiencies and implications. <i>Geoscientific Model Development</i> , 2017, 10, 1403-1422. | 3.6 | 213 |
| 60 | Uncertainties in the land-use flux resulting from land-use change reconstructions and gross land transitions. <i>Earth System Dynamics</i> , 2017, 8, 91-111. | 7.1 | 36 |
| 61 | Regional disparities in the beneficial effects of rising CO ₂ concentrations on crop water productivity. <i>Nature Climate Change</i> , 2016, 6, 786-790. | 18.8 | 190 |
| 62 | Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016, 6, 791-795. | 18.8 | 1,675 |
| 63 | Accounting for interannual variability in agricultural intensification: The potential of crop selection in Sub-Saharan Africa. <i>Agricultural Systems</i> , 2016, 148, 159-168. | 6.1 | 10 |
| 64 | Similar estimates of temperature impacts on global wheat yield by three independent methods. <i>Nature Climate Change</i> , 2016, 6, 1130-1136. | 18.8 | 352 |
| 65 | Climate analogues suggest limited potential for intensification of production on current croplands under climate change. <i>Nature Communications</i> , 2016, 7, 12608. | 12.8 | 80 |
| 66 | Key knowledge and data gaps in modelling the influence of CO ₂ concentration on the terrestrial carbon sink. <i>Journal of Plant Physiology</i> , 2016, 203, 3-15. | 3.5 | 41 |
| 67 | Global change pressures on soils from land use and management. <i>Global Change Biology</i> , 2016, 22, 1008-1028. | 9.5 | 605 |
| 68 | Impacts of land-use history on the recovery of ecosystems after agricultural abandonment. <i>Earth System Dynamics</i> , 2016, 7, 745-766. | 7.1 | 22 |
| 69 | Simulated carbon emissions from land-use change are substantially enhanced by accounting for agricultural management. <i>Environmental Research Letters</i> , 2015, 10, 124008. | 5.2 | 103 |
| 70 | Implications of climate mitigation for future agricultural production. <i>Environmental Research Letters</i> , 2015, 10, 125004. | 5.2 | 49 |
| 71 | Delivering a Multi-Functional and Resilient Urban Forest. <i>Sustainability</i> , 2015, 7, 4600-4624. | 3.2 | 23 |
| 72 | Soil carbon management in large-scale Earth system modelling: implications for crop yields and nitrogen leaching. <i>Earth System Dynamics</i> , 2015, 6, 745-768. | 7.1 | 40 |

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|----|---|------|-----------|
| 73 | Historical and future quantification of terrestrial carbon sequestration from a Greenhouse-Gas-Value perspective. <i>Global Environmental Change</i> , 2015, 32, 153-164. | 7.8 | 20 |
| 74 | Reconciling Precipitation with Runoff: Observed Hydrological Change in the Midlatitudes. <i>Journal of Hydrometeorology</i> , 2015, 16, 2403-2420. | 1.9 | 7 |
| 75 | Effect of land-use change and management on biogenic volatile organic compound emissions – selecting climate-smart cultivars. <i>Plant, Cell and Environment</i> , 2015, 38, 1896-1912. | 5.7 | 16 |
| 76 | Assessing agricultural risks of climate change in the 21st century in a global gridded crop model intercomparison. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3268-3273. | 7.1 | 1,649 |
| 77 | Multisectoral climate impact hotspots in a warming world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3233-3238. | 7.1 | 149 |
| 78 | Emissions of biogenic volatile organic compounds and subsequent photochemical production of secondary organic aerosol in mesocosm studies of temperate and tropical plant species. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12781-12801. | 4.9 | 27 |
| 79 | Effects of the spatial resolution of climate data on estimates of biogenic isoprene emissions. <i>Atmospheric Environment</i> , 2013, 70, 1-6. | 4.1 | 25 |
| 80 | Influence of boundary layer dynamics and isoprene chemistry on the organic aerosol budget in a tropical forest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9351-9366. | 3.3 | 14 |
| 81 | Reply to 'Circadian control of global isoprene emissions'. <i>Nature Geoscience</i> , 2012, 5, 435-436. | 12.9 | 2 |
| 82 | A Lagrangian model of air-mass photochemistry and mixing using a trajectory ensemble: the Cambridge Tropospheric Trajectory model of Chemistry And Transport (CiTTyCAT) version 4.2. <i>Geoscientific Model Development</i> , 2012, 5, 193-221. | 3.6 | 24 |
| 83 | A futures-based analysis for urban air quality remediation. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2012, 165, 21-36. | 0.7 | 12 |
| 84 | Benchmarking sustainability in cities: The role of indicators and future scenarios. <i>Global Environmental Change</i> , 2012, 22, 245-254. | 7.8 | 105 |
| 85 | Effectiveness of Green Infrastructure for Improvement of Air Quality in Urban Street Canyons. <i>Environmental Science & Technology</i> , 2012, 46, 7692-7699. | 10.0 | 482 |
| 86 | The impact of local surface changes in Borneo on atmospheric composition at wider spatial scales: coastal processes, land-use change and air quality. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3210-3224. | 4.0 | 27 |
| 87 | The influence of small-scale variations in isoprene concentrations on atmospheric chemistry over a tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4121-4134. | 4.9 | 40 |
| 88 | The atmospheric chemistry of trace gases and particulate matter emitted by different land uses in Borneo. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3177-3195. | 4.0 | 36 |
| 89 | Ground-level ozone influenced by circadian control of isoprene emissions. <i>Nature Geoscience</i> , 2011, 4, 671-674. | 12.9 | 59 |
| 90 | Fluxes and concentrations of volatile organic compounds from a South-East Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8391-8412. | 4.9 | 119 |

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|----|--|-----|-----------|
| 91 | Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. Atmospheric Chemistry and Physics, 2010, 10, 169-199. | 4.9 | 130 |
| 92 | Simulating atmospheric composition over a South-East Asian tropical rainforest: performance of a chemistry box model. Atmospheric Chemistry and Physics, 2010, 10, 279-298. | 4.9 | 132 |
| 93 | Modelling chemistry in the nocturnal boundary layer above tropical rainforest and a generalised effective nocturnal ozone deposition velocity for sub-ppbv NO _x conditions. Journal of Atmospheric Chemistry, 2010, 65, 89-110. | 3.2 | 8 |
| 94 | Nitrogen management is essential to prevent tropical oil palm plantations from causing ground-level ozone pollution. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18447-18451. | 7.1 | 161 |