

Benjamin L Bodirsky

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

10,040
citations

57631

44
h-index

71532

76
g-index

83
all docs

83
docs citations

83
times ranked

11040
citing authors

#	ARTICLE	IF	CITATIONS
1	Options for keeping the food system within environmental limits. <i>Nature</i> , 2018, 562, 519-525.	13.7	1,709
2	Land-use futures in the shared socio-economic pathways. <i>Global Environmental Change</i> , 2017, 42, 331-345.	3.6	645
3	Fossil-fueled development (SSP5): An energy and resource intensive scenario for the 21st century. <i>Global Environmental Change</i> , 2017, 42, 297-315.	3.6	418
4	Assessing the impacts of 1.5°C global warming – simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). <i>Geoscientific Model Development</i> , 2017, 10, 4321-4345.	1.3	410
5	Harmonization of global land use change and management for the period 850–2100 (LUH2) for CMIP6. <i>Geoscientific Model Development</i> , 2020, 13, 5425-5464.	1.3	408
6	The future of food demand: understanding differences in global economic models. <i>Agricultural Economics (United Kingdom)</i> , 2014, 45, 51-67.	2.0	357
7	Reactive nitrogen requirements to feed the world in 2050 and potential to mitigate nitrogen pollution. <i>Nature Communications</i> , 2014, 5, 3858.	5.8	356
8	Food consumption, diet shifts and associated non-CO2 greenhouse gases from agricultural production. <i>Global Environmental Change</i> , 2010, 20, 451-462.	3.6	323
9	Risk of increased food insecurity under stringent global climate change mitigation policy. <i>Nature Climate Change</i> , 2018, 8, 699-703.	8.1	319
10	Feeding ten billion people is possible within four terrestrial planetary boundaries. <i>Nature Sustainability</i> , 2020, 3, 200-208.	11.5	306
11	Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020, 1, 266-272.	6.2	285
12	Future air pollution in the Shared Socio-economic Pathways. <i>Global Environmental Change</i> , 2017, 42, 346-358.	3.6	277
13	Climate change impacts on agriculture in 2050 under a range of plausible socioeconomic and emissions scenarios. <i>Environmental Research Letters</i> , 2015, 10, 085010.	2.2	216
14	The world's growing municipal solid waste: trends and impacts. <i>Environmental Research Letters</i> , 2020, 15, 074021.	2.2	207
15	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. <i>Nature Communications</i> , 2019, 10, 5229.	5.8	188
16	A sustainable development pathway for climate action within the UN 2030 Agenda. <i>Nature Climate Change</i> , 2021, 11, 656-664.	8.1	179
17	Global Food Demand Scenarios for the 21st Century. <i>PLoS ONE</i> , 2015, 10, e0139201.	1.1	178
18	Land-use protection for climate change mitigation. <i>Nature Climate Change</i> , 2014, 4, 1095-1098.	8.1	164

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19	Trading more food: Implications for land use, greenhouse gas emissions, and the food system. <i>Global Environmental Change</i> , 2012, 22, 189-209.	3.6	154
20	A multi-model assessment of food security implications of climate change mitigation. <i>Nature Sustainability</i> , 2019, 2, 386-396.	11.5	152
21	Articulating the effect of food systems innovation on the Sustainable Development Goals. <i>Lancet Planetary Health</i> , The, 2021, 5, e50-e62.	5.1	135
22	Investigating afforestation and bioenergy CCS as climate change mitigation strategies. <i>Environmental Research Letters</i> , 2014, 9, 064029.	2.2	129
23	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. <i>Environmental Science & Technology</i> , 2018, 52, 7351-7359.	4.6	124
24	Drivers of meat consumption. <i>Appetite</i> , 2019, 141, 104313.	1.8	123
25	Key determinants of global land-use projections. <i>Nature Communications</i> , 2019, 10, 2166.	5.8	123
26	The impact of high-end climate change on agricultural welfare. <i>Science Advances</i> , 2016, 2, e1501452.	4.7	118
27	Trade-offs between land and water requirements for large-scale bioenergy production. <i>GCB Bioenergy</i> , 2016, 8, 11-24.	2.5	108
28	Quantification of global and national nitrogen budgets for crop production. <i>Nature Food</i> , 2021, 2, 529-540.	6.2	108
29	N ₂ O emissions from the global agricultural nitrogen cycle – current state and future scenarios. <i>Biogeosciences</i> , 2012, 9, 4169-4197.	1.3	96
30	Large-scale bioenergy production: how to resolve sustainability trade-offs?. <i>Environmental Research Letters</i> , 2018, 13, 024011.	2.2	96
31	Comparing impacts of climate change and mitigation on global agriculture by 2050. <i>Environmental Research Letters</i> , 2018, 13, 064021.	2.2	93
32	Microbes and the Next Nitrogen Revolution. <i>Environmental Science & Technology</i> , 2017, 51, 7297-7303.	4.6	85
33	The ongoing nutrition transition thwarts long-term targets for food security, public health and environmental protection. <i>Scientific Reports</i> , 2020, 10, 19778.	1.6	85
34	Afforestation to mitigate climate change: impacts on food prices under consideration of albedo effects. <i>Environmental Research Letters</i> , 2016, 11, 085001.	2.2	74
35	Projected environmental benefits of replacing beef with microbial protein. <i>Nature</i> , 2022, 605, 90-96.	13.7	72
36	Combining ambitious climate policies with efforts to eradicate poverty. <i>Nature Communications</i> , 2021, 12, 2342.	5.8	63

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37	Deriving life cycle assessment coefficients for application in integrated assessment modelling. <i>Environmental Modelling and Software</i> , 2018, 99, 111-125.	1.9	59
38	On sustainability of bioenergy production: Integrating co-emissions from agricultural intensification. <i>Biomass and Bioenergy</i> , 2011, 35, 4770-4780.	2.9	58
39	Shared Socio-economic Pathways for European agriculture and food systems: The Eur-Agri-SSPs. <i>Global Environmental Change</i> , 2020, 65, 102159.	3.6	58
40	Mitigation Strategies for Greenhouse Gas Emissions from Agriculture and Land-Use Change: Consequences for Food Prices. <i>Environmental Science & Technology</i> , 2017, 51, 365-374.	4.6	57
41	Large uncertainty in carbon uptake potential of land-based climate change mitigation efforts. <i>Global Change Biology</i> , 2018, 24, 3025-3038.	4.2	56
42	MAGPIE 4 – a modular open-source framework for modeling global land systems. <i>Geoscientific Model Development</i> , 2019, 12, 1299-1317.	1.3	56
43	Blue water scarcity and the economic impacts of future agricultural trade and demand. <i>Water Resources Research</i> , 2013, 49, 3601-3617.	1.7	52
44	Environmental flow provision: Implications for agricultural water and land-use at the global scale. <i>Global Environmental Change</i> , 2015, 30, 113-132.	3.6	47
45	Livestock and human use of land: Productivity trends and dietary choices as drivers of future land and carbon dynamics. <i>Global and Planetary Change</i> , 2017, 159, 1-10.	1.6	44
46	Modeling vegetation and carbon dynamics of managed grasslands at the global scale with LPJmL 3.6. <i>Geoscientific Model Development</i> , 2018, 11, 429-451.	1.3	39
47	The role of methane in future climate strategies: mitigation potentials and climate impacts. <i>Climatic Change</i> , 2020, 163, 1409-1425.	1.7	39
48	Bio-IGCC with CCS as a long-term mitigation option in a coupled energy-system and land-use model. <i>Energy Procedia</i> , 2011, 4, 2933-2940.	1.8	36
49	Land-Use and Carbon Cycle Responses to Moderate Climate Change: Implications for Land-Based Mitigation?. <i>Environmental Science & Technology</i> , 2015, 49, 6731-6739.	4.6	36
50	Livestock production and the water challenge of future food supply: Implications of agricultural management and dietary choices. <i>Global Environmental Change</i> , 2017, 47, 121-132.	3.6	34
51	We need a food system transformation – In the face of the Russia-Ukraine war, now more than ever. <i>One Earth</i> , 2022, 5, 470-472.	3.6	34
52	Global consequences of afforestation and bioenergy cultivation on ecosystem service indicators. <i>Biogeosciences</i> , 2017, 14, 4829-4850.	1.3	33
53	Robust relationship between yields and nitrogen inputs indicates three ways to reduce nitrogen pollution. <i>Environmental Research Letters</i> , 2014, 9, 111005.	2.2	31
54	A framework for nitrogen futures in the shared socioeconomic pathways. <i>Global Environmental Change</i> , 2020, 61, 102029.	3.6	30

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55	Integrating degrowth and efficiency perspectives enables an emission-neutral food system by 2100. <i>Nature Food</i> , 2022, 3, 341-348.	6.2	28
56	Options to overcome the barriers to pricing European agricultural emissions. <i>Climate Policy</i> , 2018, 18, 151-169.	2.6	27
57	The global economic long-term potential of modern biomass in a climate-constrained world. <i>Environmental Research Letters</i> , 2014, 9, 074017.	2.2	26
58	A protocol to develop Shared Socio-economic Pathways for European agriculture. <i>Journal of Environmental Management</i> , 2019, 252, 109701.	3.8	26
59	Food system development pathways for healthy, nature-positive and inclusive food systems. <i>Nature Food</i> , 2021, 2, 928-934.	6.2	24
60	Pasture intensification is insufficient to relieve pressure on conservation priority areas in open agricultural markets. <i>Global Change Biology</i> , 2018, 24, 3199-3213.	4.2	22
61	The value of climate-resilient seeds for smallholder adaptation in sub-Saharan Africa. <i>Climatic Change</i> , 2020, 162, 1213-1229.	1.7	22
62	Taking account of governance: Implications for land-use dynamics, food prices, and trade patterns. <i>Ecological Economics</i> , 2016, 122, 12-24.	2.9	21
63	Beyond land-use intensity: Assessing future global crop productivity growth under different socioeconomic pathways. <i>Technological Forecasting and Social Change</i> , 2020, 160, 120208.	6.2	21
64	Quantifying sustainable intensification of agriculture: The contribution of metrics and modelling. <i>Ecological Indicators</i> , 2021, 129, 107870.	2.6	18
65	A cross-scale impact assessment of European nature protection policies under contrasting future socio-economic pathways. <i>Regional Environmental Change</i> , 2018, 18, 751-762.	1.4	15
66	Will the world run out of land? A Kaya-type decomposition to study past trends of cropland expansion. <i>Environmental Research Letters</i> , 2014, 9, 024011.	2.2	14
67	Reforming China's fertilizer policies: implications for nitrogen pollution reduction and food security. <i>Sustainability Science</i> , 2023, 18, 407-420.	2.5	14
68	The role of nitrogen in achieving sustainable food systems for healthy diets. <i>Global Food Security</i> , 2021, 28, 100408.	4.0	11
69	Quantifying synergies and trade-offs in the global water-land-food-climate nexus using a multi-model scenario approach. <i>Environmental Research Letters</i> , 2022, 17, 045004.	2.2	11
70	Research meetings must be more sustainable. <i>Nature Food</i> , 2020, 1, 187-189.	6.2	7
71	German pig farmers' perceived agency under different nitrogen policies. <i>Environmental Research Communications</i> , 2021, 3, 085002.	0.9	4
72	Australia at the crossroads. <i>Nature</i> , 2015, 527, 40-41.	13.7	3

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73	Focus on reactive nitrogen and the UN sustainable development goals. Environmental Research Letters, 2022, 17, 050401.	2.2	3
74	Reply to: An appeal to cost undermines food security risks of delayed mitigation. Nature Climate Change, 2020, 10, 420-421.	8.1	2
75	Estimating global land system impacts of timber plantations using MAgPIE 4.3.5. Geoscientific Model Development, 2021, 14, 6467-6494.	1.3	2
76	Food futures: Storylines of dietary megatrends along the Shared Socioeconomic Pathways (SSPs). Proceedings of the Nutrition Society, 2020, 79, .	0.4	1
77	Agriculture: Sleeping Beauty of EU Climate Policy? Overcoming Barriers to Implementation. SSRN Electronic Journal, 0, , .	0.4	1