Benjamin L Bodirsky

List of Publications by Year
in descending order

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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	Reforming Chinaâ€™s fertilizer policies: implications for nitrogen pollution reduction and food security. Sustainability Science, 2023, 18, 407-420.	2.5	14
2	Quantifying synergies and trade-offs in the global water-land-food-climate nexus using a multi-model scenario approach. Environmental Research Letters, 2022, 17, 045004.	2.2	11
3	Projected environmental benefits of replacing beef with microbial protein. Nature, 2022, 605, 90-96.	13.7	72
4	We need a food system transformationâ€"In the face of the Russia-Ukraine war, now more than ever. One Earth, 2022, 5, 470-472.	3.6	34
5	Focus on reactive nitrogen and the UN sustainable development goals. Environmental Research Letters, 2022, 17, 050401.	2.2	3
6	Integrating degrowth and efficiency perspectives enables an emission-neutral food system by 2100. Nature Food, 2022, 3, 341-348.	6.2	28
7	The role of nitrogen in achieving sustainable food systems for healthy diets. Global Food Security, 2021, 28, 100408.	4.0	11
8	Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62.	5.1	135
9	Combining ambitious climate policies with efforts to eradicate poverty. Nature Communications, 2021, 12, 2342.	5.8	63
10	Quantification of global and national nitrogen budgets for crop production. Nature Food, 2021, 2, 529-540.	6.2	108
11	A sustainable development pathway for climate action within the UN 2030 Agenda. Nature Climate Change, 2021, 11, 656-664.	8.1	179
12	German pig farmersâ€™ perceived agency under different nitrogen policies. Environmental Research Communications, 2021, 3, 085002.	0.9	4
13	Quantifying sustainable intensification of agriculture: The contribution of metrics and modelling. Ecological Indicators, 2021, 129, 107870.	2.6	18
14	Estimating global land system impacts of timber plantations using MAgPIE 4.3.5. Geoscientific Model Development, 2021, 14, 6467-6494.	1.3	2
15	Food system development pathways for healthy, nature-positive and inclusive food systems. Nature Food, 2021, 2, 928-934.	6.2	24
16	The role of methane in future climate strategies: mitigation potentials and climate impacts. Climatic Change, 2020, 163, 1409-1425.	1.7	39
17	Shared Socio-economic Pathways for European agriculture and food systems: The Eur-Agri-SSPs. Global Environmental Change, 2020, 65, 102159.	3.6	58
18	The ongoing nutrition transition thwarts long-term targets for food security, public health and environmental protection. Scientific Reports, 2020, 10, 19778.	1.6	85

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19	Beyond land-use intensity: Assessing future global crop productivity growth under different socioeconomic pathways. Technological Forecasting and Social Change, 2020, 160, 120208.	6.2	21
20	The value of climate-resilient seeds for smallholder adaptation in sub-Saharan Africa. Climatic Change, 2020, 162, 1213-1229.	1.7	22
21	Food futures: Storylines of dietary megatrends along the Shared Socioeconomic Pathways (SSPs). Proceedings of the Nutrition Society, 2020, 79, .	0.4	1
22	Reply to: An appeal to cost undermines food security risks of delayed mitigation. Nature Climate Change, 2020, 10, 420-421.	8.1	2
23	Innovation can accelerate the transition towards a sustainable food system. Nature Food, 2020, 1, 266-272.	6.2	285
24	A framework for nitrogen futures in the shared socioeconomic pathways. Global Environmental Change, 2020, 61, 102029.	3.6	30
25	The worldâ€™s growing municipal solid waste: trends and impacts. Environmental Research Letters, 2020, 15, 074021.	2.2	207
26	Research meetings must be more sustainable. Nature Food, 2020, 1, 187-189.	6.2	7
27	Feeding ten billion people is possible within four terrestrial planetary boundaries. Nature Sustainability, 2020, 3, 200-208.	11.5	306
28	Harmonization of global land use change and management for the period 850â€“2100 (LUH2) for CMIP6. Geoscientific Model Development, 2020, 13, 5425-5464.	1.3	408
29	A protocol to develop Shared Socio-economic Pathways for European agriculture. Journal of Environmental Management, 2019, 252, 109701.	3.8	26
30	MAgPIE 4 â€“ aÂmodular open-source framework for modeling global land systems. Geoscientific Model Development, 2019, 12, 1299-1317.	1.3	56
31	Drivers of meat consumption. Appetite, 2019, 141, 104313.	1.8	123
32	Key determinants of global land-use projections. Nature Communications, 2019, 10, 2166.	5.8	123
33	A multi-model assessment of food security implications of climate change mitigation. Nature Sustainability, 2019, 2, 386-396.	11.5	152
34	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. Nature Communications, 2019, 10, 5229.	5.8	188
35	Pasture intensification is insufficient to relieve pressure on conservation priority areas in open agricultural markets. Global Change Biology, 2018, 24, 3199-3213.	4.2	22
36	Large uncertainty in carbon uptake potential of landâ€based climateâ€change mitigation efforts. Global Change Biology, 2018, 24, 3025-3038.	4.2	56

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37	Options to overcome the barriers to pricing European agricultural emissions. Climate Policy, 2018, 18, 151-169.	2.6	27
38	A cross-scale impact assessment of European nature protection policies under contrasting future socio-economic pathways. Regional Environmental Change, 2018, 18, 751-762.	1.4	15
39	Deriving life cycle assessment coefficients for application in integrated assessment modelling. Environmental Modelling and Software, 2018, 99, 111-125.	1.9	59
40	Options for keeping the food system within environmental limits. Nature, 2018, 562, 519-525.	13.7	1,709
41	Large-scale bioenergy production: how to resolve sustainability trade-offs?. Environmental Research Letters, 2018, 13, 024011.	2.2	96
42	Modeling vegetation and carbon dynamics of managed grasslands at the global scale with LPJmL 3.6. Geoscientific Model Development, 2018, 11, 429-451.	1.3	39
43	Comparing impacts of climate change and mitigation on global agriculture by 2050. Environmental Research Letters, 2018, 13, 064021.	2.2	93
44	Risk of increased food insecurity under stringent global climate change mitigation policy. Nature Climate Change, 2018, 8, 699-703.	8.1	319
45	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. Environmental Science & Technology, 2018, 52, 7351-7359.	4.6	124
46	Microbes and the Next Nitrogen Revolution. Environmental Science & Technology, 2017, 51, 7297-7303.	4.6	85
47	Mitigation Strategies for Greenhouse Gas Emissions from Agriculture and Land-Use Change: Consequences for Food Prices. Environmental Science & Technology, 2017, 51, 365-374.	4.6	57
48	Livestock production and the water challenge of future food supply: Implications of agricultural management and dietary choices. Global Environmental Change, 2017, 47, 121-132.	3.6	34
49	Livestock and human use of land: Productivity trends and dietary choices as drivers of future land and carbon dynamics. Global and Planetary Change, 2017, 159, 1-10.	1.6	44
50	Land-use futures in the shared socio-economic pathways. Global Environmental Change, 2017, 42, 331-345.	3.6	645
51	Future air pollution in the Shared Socio-economic Pathways. Global Environmental Change, 2017, 42, 346-358.	3.6	277
52	Fossil-fueled development (SSP5): An energy and resource intensive scenario for the 21st century. Global Environmental Change, 2017, 42, 297-315.	3.6	418
53	Global consequences of afforestation and bioenergy cultivation on ecosystem service indicators. Biogeosciences, 2017, 14, 4829-4850.	1.3	33
54	Assessing the impacts of 1.5â€¯Â°C global warming â€“ simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). Geoscientific Model Development, 2017, 10, 4321-4345.	1.3	410

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55	Afforestation to mitigate climate change: impacts on food prices under consideration of albedo effects. Environmental Research Letters, 2016, 11, 085001.	2.2	74
56	The impact of high-end climate change on agricultural welfare. Science Advances, 2016, 2, e1501452.	4.7	118
57	Tradeâ€offs between land and water requirements for largeâ€scale bioenergy production. GCB Bioenergy, 2016, 8, 11-24.	2.5	108
58	Taking account of governance: Implications for land-use dynamics, food prices, and trade patterns. Ecological Economics, 2016, 122, 12-24.	2.9	21
59	Climate change impacts on agriculture in 2050 under a range of plausible socioeconomic and emissions scenarios. Environmental Research Letters, 2015, 10, 085010.	2.2	216
60	Land-Use and Carbon Cycle Responses to Moderate Climate Change: Implications for Land-Based Mitigation?. Environmental Science & Technology, 2015, 49, 6731-6739.	4.6	36
61	Australia at the crossroads. Nature, 2015, 527, 40-41.	13.7	3
62	Environmental flow provision: Implications for agricultural water and land-use at the global scale. Global Environmental Change, 2015, 30, 113-132.	3.6	47
63	Global Food Demand Scenarios for the 21st Century. PLoS ONE, 2015, 10, e0139201.	1.1	178
64	Investigating afforestation and bioenergy CCS as climate change mitigation strategies. Environmental Research Letters, 2014, 9, 064029.	2.2	129
65	Reactive nitrogen requirements to feed the world in 2050 and potential to mitigate nitrogen pollution. Nature Communications, 2014, 5, 3858.	5.8	356
66	The future of food demand: understanding differences in global economic models. Agricultural Economics (United Kingdom), 2014, 45, 51-67.	2.0	357
67	The global economic long-term potential of modern biomass in a climate-constrained world. Environmental Research Letters, 2014, 9, 074017.	2.2	26
68	Robust relationship between yields and nitrogen inputs indicates three ways to reduce nitrogen pollution. Environmental Research Letters, 2014, 9, 111005.	2.2	31
69	Will the world run out of land? A Kaya-type decomposition to study past trends of cropland expansion. Environmental Research Letters, 2014, 9, 024011.	2.2	14
70	Land-use protection for climate change mitigation. Nature Climate Change, 2014, 4, 1095-1098.	8.1	164
71	Blue water scarcity and the economic impacts of future agricultural trade and demand. Water Resources Research, 2013, 49, 3601-3617.	1.7	52
72	Trading more food: Implications for land use, greenhouse gas emissions, and the food system. Global Environmental Change, 2012, 22, 189-209.	3.6	154

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73	N₂O emissions from the global agricultural nitrogen cycle â€“ current state and future scenarios. Biogeosciences, 2012, 9, 4169-4197.	1.3	96
74	On sustainability of bioenergy production: Integrating co-emissions from agricultural intensification. Biomass and Bioenergy, 2011, 35, 4770-4780.	2.9	58
75	Bio-IGCC with CCS as a long-term mitigation option in a coupled energy-system and land-use model. Energy Procedia, 2011, 4, 2933-2940.	1.8	36
76	Food consumption, diet shifts and associated non-CO2 greenhouse gases from agricultural production. Global Environmental Change, 2010, 20, 451-462.	3.6	323
77	Agriculture: Sleeping Beauty of EU Climate Policy? Overcoming Barriers to Implementation. SSRN Electronic Journal, 0, , .	0.4	1