Jason D Hill

List of Publications by Citations

60 papers	18,194 citations	31 h-index	66 g-index
66 ext. papers	21,218 ext. citations	11.7 avg, IF	6.75 L-index

#	Paper	IF	Citations
60	Solutions for a cultivated planet. *Nature*, **2011**, 478, 337-42	50.4	4351
59	Global food demand and the sustainable intensification of agriculture. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 20260-4	11.5	3736
58	Land clearing and the biofuel carbon debt. *Science*, **2008**, 319, 1235-8	33.3	2663
57	Environmental, economic, and energetic costs and benefits of biodiesel and ethanol biofuels. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11206-10	11.5	1918
56	Carbon-negative biofuels from low-input high-diversity grassland biomass. *Science*, **2006**, 314, 1598-600	33.3	1303
55	Energy. Beneficial biofuels--the food, energy, and environment trilemma. *Science*, **2009**, 325, 270-1	33.3	1166
54	Increasing cropping system diversity balances productivity, profitability and environmental health. *PLoS ONE*, **2012**, 7, e47149	3.7	320
53	Climate change and health costs of air emissions from biofuels and gasoline. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2077-82	11.5	247
52	Multiple health and environmental impacts of foods. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23357-23362	11.5	205
51	Bioenergy and Wildlife: Threats and Opportunities for Grassland Conservation. *BioScience*, **2009**, 59, 767-777	5.7	184
50	The Ecological Impact of Biofuels. *Annual Review of Ecology, Evolution, and Systematics*, **2010**, 41, 351-377	13.5	172
49	Inequity in consumption of goods and services adds to racial-ethnic disparities in air pollution exposure. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6001-6006	11.5	169
48	Life cycle air quality impacts of conventional and alternative light-duty transportation in the United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 18490-5	11.5	162
47	Global food system emissions could preclude achieving the 1.5□and 2□C climate change targets. *Science*, **2020**, 370, 705-708	33.3	152
46	Genetic diversity and population structure of teosinte. *Genetics*, **2005**, 169, 2241-54	4	130
45	Towards the implementation of sustainable biofuel production systems. *Renewable and Sustainable Energy Reviews*, **2019**, 107, 250-263	16.2	105
44	Environmental costs and benefits of transportation biofuel production from food- and lignocellulose-based energy crops. A review. *Agronomy for Sustainable Development*, **2007**, 27, 1-12	6.8	97

43	Life cycle environmental impacts of wastewater-based algal biofuels. *Environmental Science & Technology*, **2014**, 48, 11696-704	10.3	81
42	Fine-scale damage estimates of particulate matter air pollution reveal opportunities for location-specific mitigation of emissions. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8775-8780	11.5	76
41	PM polluters disproportionately and systemically affect people of color in the United States. *Science Advances*, **2021**, 7,	14.3	75
40	The social costs of nitrogen. *Science Advances*, **2016**, 2, e1600219	14.3	73
39	Screening bioenergy feedstock crops to mitigate invasion risk. *Frontiers in Ecology and the Environment*, **2010**, 8, 533-539	5.5	69
38	Biofuels and biodiversity **2011**, 21, 1085-95		69
37	InMAP: A model for air pollution interventions. *PLoS ONE*, **2017**, 12, e0176131	3.7	65
36	A spatially and temporally explicit life cycle inventory of air pollutants from gasoline and ethanol in the United States. *Environmental Science & Technology*, **2012**, 46, 11408-17	10.3	43
35	Air-quality-related health damages of maize. *Nature Sustainability*, **2019**, 2, 397-403	22.1	41
34	An inter-comparison of the social costs of air quality from reduced-complexity models. *Environmental Research Letters*, **2019**, 14, 074016	6.2	38
33	Natural and anthropogenic ethanol sources inNorth America and potential atmospheric impacts of ethanol fuel use. *Environmental Science & Technology*, **2012**, 46, 8484-92	10.3	34
32	Reducing Freshwater Toxicity while Maintaining Weed Control, Profits, And Productivity: Effects of Increased Crop Rotation Diversity and Reduced Herbicide Usage. *Environmental Science & Technology*, **2017**, 51, 1707-1717	10.3	33
31	Cropping System Diversity Effects on Nutrient Discharge, Soil Erosion, and Agronomic Performance. *Environmental Science & Technology*, **2019**, 53, 1344-1352	10.3	32
30	Environmental consequences of invasive species: greenhouse gas emissions of insecticide use and the role of biological control in reducing emissions. *PLoS ONE*, **2013**, 8, e72293	3.7	31
29	The Diet, Health, and Environment Trilemma. *Annual Review of Environment and Resources*, **2018**, 43, 109-134	17.2	31
28	Twelve-month, 12 km resolution North American WRF-Chem v3.4 air quality simulation: performance evaluation. *Geoscientific Model Development*, **2015**, 8, 957-973	6.3	26
27	Climate consequences of low-carbon fuels: The United States Renewable Fuel Standard. *Energy Policy*, **2016**, 97, 351-353	7.2	25
26	Comment on Indirect land use change for biofuels: Testing predictions and improving analytical methodologies by Kim and Dale: statistical reliability and the definition of the indirect land use change (iLUC) issue. *Biomass and Bioenergy*, **2011**, 35, 4485-4487	5.3	24

25	Effect of Model Spatial Resolution on Estimates of Fine Particulate Matter Exposure and Exposure Disparities in the United States. *Environmental Science and Technology Letters*, **2018**, 5, 436-441	11	23
24	Reducing Mortality from Air Pollution in the United States by Targeting Specific Emission Sources. *Environmental Science and Technology Letters*, **2020**, 7, 639-645	11	19
23	U.S. federal agency models offer different visions for achieving Renewable Fuel Standard (RFS2) biofuel volumes. *Environmental Science & Technology*, **2013**, 47, 10095-101	10.3	17
22	Pathways for recent Cerrado soybean expansion: extending the soy moratorium and implementing integrated crop livestock systems with soybeans. *Environmental Research Letters*, **2019**, 14, 044029	6.2	16
21	Air quality-related health damages of food. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	16
20	Midwest vision for sustainable fuel production. *Biofuels*, **2014**, 5, 687-702	2	15
19	Understanding the evolution of environmental and energy performance of the US corn ethanol industry: evaluation of selected metrics. *Biofuels, Bioproducts and Biorefining*, **2014**, 8, 224-240	5.3	14
18	The urgency of transforming the Midwestern U.S. landscape into more than corn and soybean. *Agriculture and Human Values*, **2020**, 37, 1-3	2.7	13
17	Environmental Costs and Benefits of Transportation Biofuel Production from Food-and Lignocellulose-Based Energy Crops: A Review **2009**, 125-139		13
16	Fossil Energy Use, Climate Change Impacts, and Air Quality-Related Human Health Damages of Conventional and Diversified Cropping Systems in Iowa, USA. *Environmental Science & Technology*, **2020**, 54, 11002-11014	10.3	13
15	Assessing uncertainty in the profitability of prairie biomass production with ecosystem service compensation. *Ecosystem Services*, **2016**, 21, 103-108	6.1	13
14	Life cycle air quality impacts on human health from potential switchgrass production in the United States. *Biomass and Bioenergy*, **2018**, 114, 73-82	5.3	11
13	Seeing the forest for the trees: How much woody biomass can the Midwest United States sustainably produce?. *Biomass and Bioenergy*, **2017**, 105, 266-277	5.3	11
12	Impacts of second-generation biofuel feedstock production in the central U.S. on the hydrologic cycle and global warming mitigation potential. *Geophysical Research Letters*, **2016**, 43, 10,773-10,781	4.9	11
11	Microalgal biofuel production at national scales: Reducing conflicts with agricultural lands and biodiversity within countries. *Energy*, **2021**, 215, 119033	7.9	11
10	Effects of Land Use Change for Crops on Water and Carbon Budgets in the Midwest USA. *Sustainability*, **2017**, 9, 225	3.6	5
9	Weed seedbank diversity and sustainability indicators for simple and more diverse cropping systems. *Weed Research*, **2021**, 61, 164-177	1.9	5
8	Life Cycle Analysis of Biofuels **2013**, 627-630		3

List of Publications

7	Response to comment on "Natural and anthropogenic ethanol sources in North America and potential atmospheric impacts of ethanol fuel use". *Environmental Science & Technology*, **2013**, 47, 2141	10.3	3
6	Reply to Oron: Electric vehicles provide an opportunity to reduce environmental health effects of transportation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E3974	11.5	2
5	Response--Biofuels. *Science*, **2009**, 326, 1346-1346	33.3	2
4	The food we eat, the air we breathe: a review of the fine particulate matter-induced air quality health impacts of the global food system. *Environmental Research Letters*, **2021**, 16, 103004	6.2	2
3	Opportunities and challenges of transitioning to sustainable next-generation transportation biofuels. *International Journal of Biotechnology*, **2009**, 11, 5	0	1
2	The sobering truth about corn ethanol.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2200997119	11.5	0
1	Global, high-resolution, reduced-complexity air quality modeling for PM2.5 using InMAP (Intervention Model for Air Pollution). *PLoS ONE*, **2022**, 17, e0268714	3.7	0