Jason D Hill

List of Publications by Year
in descending order

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60 papers	24,209 citations	117453 34 h-index	138251 58 g-index
66 all docs	66 docs citations	66 times ranked	26680 citing authors

#	Article	IF	Citations
1	Solutions for a cultivated planet. Nature, 2011, 478, 337-342.	13.7	5,821
2	Global food demand and the sustainable intensification of agriculture. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20260-20264.	3.3	5,160
3	Land Clearing and the Biofuel Carbon Debt. Science, 2008, 319, 1235-1238.	6.0	3,066
4	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, 11206-11210.	3.3	2,257
5	Carbon-Negative Biofuels from Low-Input High-Diversity Grassland Biomass. Science, 2006, 314, 1598-1600.	6.0	1,505
6	Beneficial Biofuelsâ€"The Food, Energy, and Environment Trilemma. Science, 2009, 325, 270-271.	6.0	1,335
7	Global food system emissions could preclude achieving the 1.5Â° and 2Â°C climate change targets. Science, 2020, 370, 705-708.	6.0	496
8	Multiple health and environmental impacts of foods. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23357-23362.	3.3	440
9	Increasing Cropping System Diversity Balances Productivity, Profitability and Environmental Health. PLoS ONE, 2012, 7, e47149.	1.1	410
10	Inequity in consumption of goods and services adds to racialâ€"ethnic disparities in air pollution exposure. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6001-6006.	3.3	349
11	PM _{2.5} polluters disproportionately and systemically affect people of color in the United States. Science Advances, 2021, 7, .	4.7	286
12	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, 2077-2082.	3.3	279
13	Bioenergy and Wildlife: Threats and Opportunities for Grassland Conservation. BioScience, 2009, 59, 767-777.	2.2	212
14	The Ecological Impact of Biofuels. Annual Review of Ecology, Evolution, and Systematics, 2010, 41, 351-377.	3.8	203
15	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, 18490-18495.	3.3	200
16	Genetic Diversity and Population Structure of Teosinte. Genetics, 2005, 169, 2241-2254.	1.2	182
17	Towards the implementation of sustainable biofuel production systems. Renewable and Sustainable Energy Reviews, 2019, 107, 250-263.	8.2	167
18	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.	3.3	158

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19	InMAP: A model for air pollution interventions. PLoS ONE, 2017, 12, e0176131.	1.1	123
20	The social costs of nitrogen. Science Advances, 2016, 2, e1600219.	4.7	118
21	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.	2.2	113
22	Life Cycle Environmental Impacts of Wastewater-Based Algal Biofuels. Environmental Science & Technology, 2014, 48, 11696-11704.	4.6	105
23	Biofuels and biodiversity. , 2011, 21, 1085-1095.		79
24	Screening bioenergy feedstock crops to mitigate invasion risk. Frontiers in Ecology and the Environment, 2010, 8, 533-539.	1.9	74
25	The Diet, Health, and Environment Trilemma. Annual Review of Environment and Resources, 2018, 43, 109-134.	5.6	73
26	Air-quality-related health damages of maize. Nature Sustainability, 2019, 2, 397-403.	11.5	73
27	Air qualityâ€“related health damages of food. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	70
28	An inter-comparison of the social costs of air quality from reduced-complexity models. Environmental Research Letters, 2019, 14, 074016.	2.2	66
29	Reducing Mortality from Air Pollution in the United States by Targeting Specific Emission Sources. Environmental Science and Technology Letters, 2020, 7, 639-645.	3.9	64
30	Cropping System Diversity Effects on Nutrient Discharge, Soil Erosion, and Agronomic Performance. Environmental Science & Technology, 2019, 53, 1344-1352.	4.6	59
31	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.	3.9	54
32	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.	1.1	50
33	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.	4.6	48
34	A Spatially and Temporally Explicit Life Cycle Inventory of Air Pollutants from Gasoline and Ethanol in the United States. Environmental Science & Technology, 2012, 46, 11408-11417.	4.6	46
35	Natural and Anthropogenic Ethanol Sources in North America and Potential Atmospheric Impacts of Ethanol Fuel Use. Environmental Science & Technology, 2012, 46, 8484-8492.	4.6	42
36	Pathways for recent Cerrado soybean expansion: extending the soy moratorium and implementing integrated crop livestock systems with soybeans. Environmental Research Letters, 2019, 14, 044029.	2.2	36

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37	The urgency of transforming the Midwestern U.S. landscape into more than corn and soybean. Agriculture and Human Values, 2020, 37, 537-539.	1.7	36
38	Twelve-month, 12 km resolution North American WRF-Chem v3.4 air quality simulation: performance evaluation. Geoscientific Model Development, 2015, 8, 957-973.	1.3	34
39	Climate consequences of low-carbon fuels: The United States Renewable Fuel Standard. Energy Policy, 2016, 97, 351-353.	4.2	34
40	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.	4.6	30
41	Comment on â€œIndirect land use change for biofuels: Testing predictions and improving analytical methodologiesâ€•by Kim and Dale: statistical reliability and the definition of the indirect land use change (iLUC) issue. Biomass and Bioenergy, 2011, 35, 4485-4487.	2.9	27
42	Microalgal biofuel production at national scales: Reducing conflicts with agricultural lands and biodiversity within countries. Energy, 2021, 215, 119033.	4.5	22
43	Environmental Costs and Benefits of Transportation Biofuel Production from Food-and Lignocellulose-Based Energy Crops: A Review. , 2009, , 125-139.		22
44	U.S. Federal Agency Models Offer Different Visions for Achieving Renewable Fuel Standard (RFS2) Biofuel Volumes. Environmental Science & Technology, 2013, 47, 10095-10101.	4.6	17
45	Midwest vision for sustainable fuel production. Biofuels, 2014, 5, 687-702.	1.4	17
46	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.	2.2	17
47	Understanding the evolution of environmental and energy performance of the <scp>US</scp> corn ethanol industry: evaluation of selected metrics. Biofuels, Bioproducts and Biorefining, 2014, 8, 224-240.	1.9	16
48	Life cycle air quality impacts on human health from potential switchgrass production in the United States. Biomass and Bioenergy, 2018, 114, 73-82.	2.9	16
49	Assessing uncertainty in the profitability of prairie biomass production with ecosystem service compensation. Ecosystem Services, 2016, 21, 103-108.	2.3	15
50	Impacts of secondâ€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.	1.5	15
51	Seeing the forest for the trees: How much woody biomass can the Midwest United States sustainably produce?. Biomass and Bioenergy, 2017, 105, 266-277.	2.9	15
52	Weed seedbank diversity and sustainability indicators for simple and more diverse cropping systems. Weed Research, 2021, 61, 164-177.	0.8	11
53	Global, high-resolution, reduced-complexity air quality modeling for PM2.5 using InMAP (Intervention) Tj ETQq1 1 0.784314 rgBT /Overl	1.1	11
54	Life Cycle Analysis of Biofuels. , 2013, , 627-630.		6

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55	Effects of Land Use Change for Crops on Water and Carbon Budgets in the Midwest USA. Sustainability, 2017, 9, 225.	1.6	6
56	Responseâ€"Biofuels. Science, 2009, 326, 1346-1346.	6.0	3
57	Response to Comment on â€œNatural and Anthropogenic Ethanol Sources in North America and Potential Atmospheric Impacts of Ethanol Fuel Useâ€• Environmental Science & Technology, 2013, 47, 2141-2141.	4.6	3
58	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-E3974.	3.3	2
59	The sobering truth about corn ethanol. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200997119.	3.3	2
60	Opportunities and challenges of transitioning to sustainable next-generation transportation biofuels. International Journal of Biotechnology, 2009, 11, 5.	1.2	1