Christopher Tessum

List of Publications by Year
in descending order

30 papers	2,086 citations	331670 21 h-index	501196 28 g-index
36 all docs	36 docs citations	36 times ranked	2260 citing authors

#	Article	IF	Citations
1	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.	7.1	349
2	PM _{2.5} polluters disproportionately and systemically affect people of color in the United States. Science Advances, 2021, 7, .	10.3	286
3	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.	7.1	200
4	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.	7.1	158
5	InMAP: A model for air pollution interventions. PLoS ONE, 2017, 12, e0176131.	2.5	123
6	The social costs of nitrogen. Science Advances, 2016, 2, e1600219.	10.3	118
7	Fine Particulate Air Pollution from Electricity Generation in the US: Health Impacts by Race, Income, and Geography. Environmental Science & Technology, 2019, 53, 14010-14019.	10.0	83
8	Air-quality-related health damages of maize. Nature Sustainability, 2019, 2, 397-403.	23.7	73
9	Air qualityâ€“related health damages of food. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	70
10	An inter-comparison of the social costs of air quality from reduced-complexity models. Environmental Research Letters, 2019, 14, 074016.	5.2	66
11	Reducing Mortality from Air Pollution in the United States by Targeting Specific Emission Sources. Environmental Science and Technology Letters, 2020, 7, 639-645.	8.7	64
12	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.	8.7	54
13	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.	10.0	46
14	Ancillary health effects of climate mitigation scenarios as drivers of policy uptake: a review of air quality, transportation and diet co-benefits modeling studies. Environmental Research Letters, 2017, 12, 113001.	5.2	45
15	Health co-benefits of sub-national renewable energy policy in the US. Environmental Research Letters, 2019, 14, 085012.	5.2	45
16	Emissions of C₆â€“C₈ aromatic compounds in the United States: Constraints from tall tower and aircraft measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 826-842.	3.3	44
17	Health and climate impacts of future United States land freight modelled with global-to-urban models. Nature Sustainability, 2019, 2, 105-112.	23.7	44
18	Natural and Anthropogenic Ethanol Sources in North America and Potential Atmospheric Impacts of Ethanol Fuel Use. Environmental Science & Technology, 2012, 46, 8484-8492.	10.0	42

#	Article	IF	Citations
19	Twelve-month, 12 km resolution North American WRF-Chem v3.4 air quality simulation: performance evaluation. Geoscientific Model Development, 2015, 8, 957-973.	3.6	34
20	Wildfire, Smoke Exposure, Human Health, and Environmental Justice Need to be Integrated into Forest Restoration and Management. Current Environmental Health Reports, 2022, 9, 366-385.	6.7	31
21	Toward Stable, General Machineâ€Learned Models of the Atmospheric Chemical System. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032759.	3.3	25
22	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.	5.2	17
23	Life cycle air quality impacts on human health from potential switchgrass production in the United States. Biomass and Bioenergy, 2018, 114, 73-82.	5.7	16
24	Sources of ambient PM2.5 exposure in 96 global cities. Atmospheric Environment, 2022, 286, 119234.	4.1	15
25	Global, high-resolution, reduced-complexity air quality modeling for PM2.5 using InMAP (Intervention) Tj ETQq1 1 0.784314 rgBT /Ove	2.5	11
26	Reduced-complexity air quality intervention modeling over China: the development of InMAPv1.6.1-China and a comparison with CMAQv5.2. Geoscientific Model Development, 2021, 14, 7621-7638.	3.6	10
27	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.	10.0	3
28	Enhanced Integration of Health, Climate, and Air Quality Management Planning at the Urban Scale. Frontiers in Sustainable Cities, 0, 4, .	2.4	3
29	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.	7.1	2
30	Environmental health, racial/ethnic health-disparity, and climate impacts of freight transport in the United States. ISEE Conference Abstracts, 2021, 2021, .	0.0	0