I Daniel Posen

List of Publications by Year
in descending order

31 papers	906 citations	516681 16 h-index	477281 29 g-index
31 all docs	31 docs citations	31 times ranked	1059 citing authors

#	Article	IF	Citations
1	Electrification of light-duty vehicle fleet alone will not meet mitigation targets. Nature Climate Change, 2020, 10, 1102-1107.	18.8	120
2	Life cycle assessment of emerging technologies: Evaluation techniques at different stages of market and technical maturity. Journal of Industrial Ecology, 2020, 24, 11-25.	5.5	103
3	Greenhouse gas mitigation for U.S. plastics production: energy first, feedstocks later. Environmental Research Letters, 2017, 12, 034024.	5.2	92
4	Life cycle greenhouse gas emissions of concrete containing supplementary cementitious materials: cut-off vs. substitution. Journal of Cleaner Production, 2020, 263, 121465.	9.3	82
5	Uncertainty in the Life Cycle Greenhouse Gas Emissions from U.S. Production of Three Biobased Polymer Families. Environmental Science & Technology, 2016, 50, 2846-2858.	10.0	58
6	Automated, electric, or both? Investigating the effects of transportation and technology scenarios on metropolitan greenhouse gas emissions. Sustainable Cities and Society, 2018, 40, 524-533.	10.4	48
7	A Dynamic Fleet Model of U.S Light-Duty Vehicle Lightweighting and Associated Greenhouse Gas Emissions from 2016 to 2050. Environmental Science & Technology, 2019, 53, 2199-2208.	10.0	48
8	Changing the Renewable Fuel Standard to a Renewable Material Standard: Bioethylene Case Study. Environmental Science & Technology, 2015, 49, 93-102.	10.0	37
9	Life cycle GHG assessment of a building restoration: Case study of a heritage industrial building in Toronto, Canada. Journal of Cleaner Production, 2021, 279, 123819.	9.3	35
10	Health and climate benefits of Electric Vehicle Deployment in the Greater Toronto and Hamilton Area. Environmental Pollution, 2020, 265, 114983.	7.5	32
11	Marginal Greenhouse Gas Emissions of Ontarioâ€™s Electricity System and the Implications of Electric Vehicle Charging. Environmental Science & Technology, 2019, 53, 7903-7912.	10.0	30
12	Taxonomy of uncertainty in environmental life cycle assessment of infrastructure projects. Environmental Research Letters, 2020, 15, 083003.	5.2	29
13	Lifecycle greenhouse gas emissions from electricity in the province of Ontario at different temporal resolutions. Journal of Cleaner Production, 2020, 270, 122514.	9.3	28
14	Modelling future patterns of urbanization, residential energy use and greenhouse gas emissions in Dar es Salaam with the Shared Socio-Economic Pathways. Journal of Cleaner Production, 2020, 254, 119998.	9.3	20
15	Quantifying the air quality and health benefits of greening freight movements. Environmental Research, 2020, 183, 109193.	7.5	20
16	Greenhouse Gas Emission Mitigation Pathways for Urban Passenger Land Transport under Ambitious Climate Targets. Environmental Science & Technology, 2021, 55, 8236-8246.	10.0	18
17	Well-to-wheel greenhouse gas implications of mid-level ethanol blend deployment in Canada's light-duty fleet. Renewable and Sustainable Energy Reviews, 2020, 131, 110012.	16.4	16
18	Quantifying environmental impacts of primary aluminum ingot production and consumption: A tradeâ€linked multilevel life cycle assessment. Journal of Industrial Ecology, 2021, 25, 67-78.	5.5	16

#	Article	IF	Citations
19	Capturing uncertainty in emission estimates related to vehicle electrification and implications for metropolitan greenhouse gas emission inventories. Applied Energy, 2020, 265, 114798.	10.1	11
20	A New Approach of Science, Technology, Engineering, and Mathematics Outreach in Climate Change, Energy, and Environmental Decision Making. Sustainability, 2015, 8, 261-271.	0.7	10
21	GHG Emissions Impact of Shifts in the Ratio of Gasoline to Diesel Production at U.S. Refineries: A PADD Level Analysis. Environmental Science & Technology, 2018, 52, 13609-13618.	10.0	8
22	Energy and greenhouse gas implications of shared automated electric vehicles. Transportation Research, Part D: Transport and Environment, 2022, 105, 103233.	6.8	8
23	Does location matter? Investigating the spatial and socio-economic drivers of residential energy use in Dar es Salaam. Environmental Research Letters, 2021, 16, 024041.	5.2	7
24	The A2+Mn5(SO4)6 family of triangular lattice, ferrimagnetic sulfates. Journal of Solid State Chemistry, 2009, 182, 1343-1350.	2.9	6
25	PbMn(SO4)2: A new chiral antiferromagnet. Journal of Solid State Chemistry, 2009, 182, 2461-2467.	2.9	6
26	Environmental Aspects of Biotechnology. Advances in Biochemical Engineering/Biotechnology, 2019, 173, 77-119.	1.1	5
27	Optimizing the Use of a Constrained Resource to Minimize Regional Greenhouse Gas Emissions: The Case Study of Slag in Ontarioâ€™s Concrete. Environmental Science & Technology, 2020, 54, 12840-12849.	10.0	4
28	Slum infrastructure: Quantitative measures and scenarios for universal access to basic services in 2030. Cities, 2021, 110, 103050.	5.6	4
29	Trade-offs between vehicle fuel economy and performance: Evidence from heterogeneous firms in China. Energy Policy, 2021, 156, 112445.	8.8	3
30	Cold Temperature Limits to Biodiesel Use under Present and Future Climates in North America. Environmental Science & Technology, 2022, 56, 8640-8649.	10.0	1
31	Does the metric matter? Climate change impacts of light-duty vehicle electrification in the US. Environmental Research: Infrastructure and Sustainability, 2022, 2, 035007.	2.3	1