Jessika E Trancik

List of Publications by Year
in descending order

32	3,399	394421 19	526287 27
papers	citations	h-index	g-index

33	33	33	4058
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Net-zero emissions energy systems. Science, 2018, 360, .	12.6	1,165
2	Value of storage technologies for wind and solarÂenergy. Nature Climate Change, 2016, 6, 964-969.	18.8	275
3	Evaluating the causes of cost reduction in photovoltaic modules. Energy Policy, 2018, 123, 700-710.	8.8	255
4	Storage Requirements and Costs of Shaping Renewable Energy Toward Grid Decarbonization. Joule, 2019, 3, 2134-2153.	24.0	251
5	Re-examining rates of lithium-ion battery technology improvement and cost decline. Energy and Environmental Science, 2021, 14, 1635-1651.	30.8	211
6	Potential for widespread electrification of personal vehicle travel in the United States. Nature Energy, 2016, 1, .	39.5	208
7	Statistical Basis for Predicting Technological Progress. PLoS ONE, 2013, 8, e52669.	2.5	173
8	Renewable energy: Back the renewables boom. Nature, 2014, 507, 300-302.	27.8	133
9	Role of design complexity in technology improvement. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9008-9013.	7.1	115
10	Personal Vehicles Evaluated against Climate Change Mitigation Targets. Environmental Science & Technology, 2016, 50, 10795-10804.	10.0	85
11	Historical costs of coal-fired electricity and implications for the future. Energy Policy, 2011, 39, 3042-3054.	8.8	81
12	Determinants of the Pace of Global Innovation in Energy Technologies. PLoS ONE, 2013, 8, e67864.	2.5	68
13	Metal production requirements for rapid photovoltaics deployment. Energy and Environmental Science, 2015, 8, 1651-1659.	30.8	65
14	Climate impacts of energy technologies depend on emissions timing. Nature Climate Change, 2014, 4, 347-352.	18.8	47
15	Determinants of lithium-ion battery technology cost decline. Energy and Environmental Science, 2021, 14, 6074-6098.	30.8	46
16	Personal vehicle electrification and charging solutions for high-energy days. Nature Energy, 2021, 6, 105-114.	39.5	37
17	Energy Technologies Evaluated against Climate Targets Using a Cost and Carbon Trade-off Curve. Environmental Science & Technology, 2013, 47, 6673-6680.	10.0	33
18	Sources of Cost Overrun in Nuclear Power Plant Construction Call for a New Approach to Engineering Design. Joule, 2020, 4, 2348-2373.	24.0	32

#	Article	IF	Citations
19	Superexponential long-term trends in information technology. Technological Forecasting and Social Change, 2011, 78, 1356-1364.	11.6	28
20	Effectiveness of a Segmental Approach to Climate Policy. Environmental Science & Technology, 2014, 48, 27-35.	10.0	17
21	TripEnergy: Estimating Personal Vehicle Energy Consumption Given Limited Travel Survey Data. Transportation Research Record, 2017, 2628, 58-66.	1.9	15
22	Vehicle emissions of short-lived and long-lived climate forcers: trends and tradeoffs. Faraday Discussions, 2017, 200, 453-474.	3.2	13
23	Testing emissions equivalency metrics against climate policy goals. Environmental Science and Policy, 2016, 66, 191-198.	4.9	10
24	Timelines for mitigating the methane impacts of using natural gas for carbon dioxide abatement. Environmental Research Letters, 2019, 14, 124069.	5.2	10
25	Research priorities for supporting subnational climate policies. Wiley Interdisciplinary Reviews: Climate Change, 2020, 11, e646.	8.1	7
26	Methane mitigation timelines to inform energy technology evaluation. Environmental Research Letters, 2015, 10, 114024.	5.2	6
27	Evaluating the Changing Causes of Photovoltaics Cost Reduction. SSRN Electronic Journal, 0, , .	0.4	5
28	Evaluating Low-Carbon Transportation Technologies When Demand Responds to Price. Environmental Science & Technology, 2022, 56, 2096-2106.	10.0	5
29	Growth in metals production for rapid photovoltaics deployment. , 2014, , .		3
30	Metals Production Requirements for Rapid Photovoltaics Deployment. SSRN Electronic Journal, 0, , .	0.4	0
31	Timelines for Mitigating Methane Emissions from Energy Technologies. SSRN Electronic Journal, 2014, , .	0.4	0
32	Testing and improving technology forecasts for better climate policy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2109417118.	7.1	0