

Jessika E Trancik

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

3,399
citations

394421

19
h-index

526287

27
g-index

33
all docs

33
docs citations

33
times ranked

4058
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating Low-Carbon Transportation Technologies When Demand Responds to Price. <i>Environmental Science & Technology</i> , 2022, 56, 2096-2106.	10.0	5
2	Personal vehicle electrification and charging solutions for high-energy days. <i>Nature Energy</i> , 2021, 6, 105-114.	39.5	37
3	Testing and improving technology forecasts for better climate policy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2109417118.	7.1	0
4	Re-examining rates of lithium-ion battery technology improvement and cost decline. <i>Energy and Environmental Science</i> , 2021, 14, 1635-1651.	30.8	211
5	Determinants of lithium-ion battery technology cost decline. <i>Energy and Environmental Science</i> , 2021, 14, 6074-6098.	30.8	46
6	Sources of Cost Overrun in Nuclear Power Plant Construction Call for a New Approach to Engineering Design. <i>Joule</i> , 2020, 4, 2348-2373.	24.0	32
7	Research priorities for supporting subnational climate policies. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2020, 11, e646.	8.1	7
8	Storage Requirements and Costs of Shaping Renewable Energy Toward Grid Decarbonization. <i>Joule</i> , 2019, 3, 2134-2153.	24.0	251
9	Timelines for mitigating the methane impacts of using natural gas for carbon dioxide abatement. <i>Environmental Research Letters</i> , 2019, 14, 124069.	5.2	10
10	Evaluating the causes of cost reduction in photovoltaic modules. <i>Energy Policy</i> , 2018, 123, 700-710.	8.8	255
11	Net-zero emissions energy systems. <i>Science</i> , 2018, 360, .	12.6	1,165
12	Vehicle emissions of short-lived and long-lived climate forcers: trends and tradeoffs. <i>Faraday Discussions</i> , 2017, 200, 453-474.	3.2	13
13	TripEnergy: Estimating Personal Vehicle Energy Consumption Given Limited Travel Survey Data. <i>Transportation Research Record</i> , 2017, 2628, 58-66.	1.9	15
14	Testing emissions equivalency metrics against climate policy goals. <i>Environmental Science and Policy</i> , 2016, 66, 191-198.	4.9	10
15	Personal Vehicles Evaluated against Climate Change Mitigation Targets. <i>Environmental Science & Technology</i> , 2016, 50, 10795-10804.	10.0	85
16	Potential for widespread electrification of personal vehicle travel in the United States. <i>Nature Energy</i> , 2016, 1, .	39.5	208
17	Value of storage technologies for wind and solar energy. <i>Nature Climate Change</i> , 2016, 6, 964-969.	18.8	275
18	Methane mitigation timelines to inform energy technology evaluation. <i>Environmental Research Letters</i> , 2015, 10, 114024.	5.2	6

#	ARTICLE	IF	CITATIONS
19	Metal production requirements for rapid photovoltaics deployment. Energy and Environmental Science, 2015, 8, 1651-1659.	30.8	65
20	Timelines for Mitigating Methane Emissions from Energy Technologies. SSRN Electronic Journal, 2014, , .	0.4	0
21	Climate impacts of energy technologies depend on emissions timing. Nature Climate Change, 2014, 4, 347-352.	18.8	47
22	Growth in metals production for rapid photovoltaics deployment. , 2014, , .		3
23	Effectiveness of a Segmental Approach to Climate Policy. Environmental Science & Technology, 2014, 48, 27-35.	10.0	17
24	Renewable energy: Back the renewables boom. Nature, 2014, 507, 300-302.	27.8	133
25	Energy Technologies Evaluated against Climate Targets Using a Cost and Carbon Trade-off Curve. Environmental Science & Technology, 2013, 47, 6673-6680.	10.0	33
26	Statistical Basis for Predicting Technological Progress. PLoS ONE, 2013, 8, e52669.	2.5	173
27	Determinants of the Pace of Global Innovation in Energy Technologies. PLoS ONE, 2013, 8, e67864.	2.5	68
28	Superexponential long-term trends in information technology. Technological Forecasting and Social Change, 2011, 78, 1356-1364.	11.6	28
29	Historical costs of coal-fired electricity and implications for the future. Energy Policy, 2011, 39, 3042-3054.	8.8	81
30	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
31	Metals Production Requirements for Rapid Photovoltaics Deployment. SSRN Electronic Journal, 0, , .	0.4	0
32	Evaluating the Changing Causes of Photovoltaics Cost Reduction. SSRN Electronic Journal, 0, , .	0.4	5