Paulina Jaramillo

List of Publications by Year
in descending order

92	5,816	94269 37	79541 73
papers	citations	h-index	g-index

96	96	96	6519
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimizing an equitable microâ€hydropower deployment: Application of a multiâ€objective method for rural Indonesia. Journal of Multi-Criteria Decision Analysis, 2022, 29, 218-229.	1.0	1
2	Potential hydropower contribution to mitigate climate risk and build resilience in Africa. Nature Climate Change, 2022, 12, 719-727.	8.1	11
3	A techno-economic and environmental assessment of residential rooftop solar - Battery systems in grid-connected households in Lagos, Nigeria. Development Engineering, 2021, 6, 100069.	1.4	5
4	Effects of Climate Change on Capacity Expansion Decisions of an Electricity Generation Fleet in the Southeast U.S.. Environmental Science & Technology, 2021, 55, 2522-2531.	4.6	30
5	Hydropower under climate uncertainty: Characterizing the usable capacity of Brazilian, Colombian and Peruvian power plants under climate scenarios. Energy for Sustainable Development, 2021, 61, 217-229.	2.0	21
6	Predicting initial electricity demand in off-grid Tanzanian communities using customer survey data and machine learning models. Energy for Sustainable Development, 2021, 62, 56-66.	2.0	13
7	Commentary: AfriqAirâ€™s Mission Towards Cleaner Air for Africa and a Call to Action. Clean Air Journal, 2021, 31, .	0.2	3
8	Climate-Induced Tradeoffs in Planning and Operating Costs of a Regional Electricity System. Environmental Science & Technology, 2021, 55, 11204-11215.	4.6	5
9	Techno-economic feasibility of small-scale pressurized irrigation in Ethiopia, Rwanda, and Uganda through an integrated modeling approach. Environmental Research Letters, 2021, 16, 104048.	2.2	5
10	Evidence of gender inequality in energy use from a mixed-methods study in India. Nature Sustainability, 2020, 3, 110-118.	11.5	30
11	Fossil fuelâ€“fired power plant operations under a changing climate. Climatic Change, 2020, 163, 619-632.	1.7	6
12	Leveraging Open-Source Tools for Collaborative Macro-energy System Modeling Efforts. Joule, 2020, 4, 2523-2526.	11.7	18
13	Air pollution emission effects of changes in transport supply: the case of BogotÃ¡, Colombia. Environmental Science and Pollution Research, 2020, 27, 35971-35978.	2.7	21
14	Compounding climate change impacts during high stress periods for a high wind and solar power system in Texas. Environmental Research Letters, 2020, 15, 024002.	2.2	8
15	Impacts of projected climate change scenarios on heating and cooling demand for industrial broiler chicken farming in the Eastern U.S. Journal of Cleaner Production, 2020, 255, 120306.	4.6	17
16	Near term carbon tax policy in the US Economy: limits to deep decarbonization. Environmental Research Communications, 2020, 2, 051004.	0.9	3
17	Development of a high-resolution traffic emission model: Lessons and key insights from the case of BogotÃ¡, Colombia. Environmental Pollution, 2019, 253, 552-559.	3.7	18
18	Internet of Things: Energy boon or bane?. Science, 2019, 364, 326-328.	6.0	106

#	Article	IF	Citations
19	Seasonal effects of climate change on intra-day electricity demand patterns. Climatic Change, 2019, 154, 435-451.	1.7	25
20	Economic Viability of a Natural Gas Refueling Infrastructure for Long-Haul Trucks. Journal of Infrastructure Systems, 2019, 25, .	1.0	9
21	An investment risk assessment of microgrid utilities for rural electrification using the stochastic techno-economic microgrid model: A case study in Rwanda. Energy for Sustainable Development, 2018, 42, 87-96.	2.0	43
22	Quantifying the capacity value of natural gas efficiency in New England. Utilities Policy, 2018, 50, 101-110.	2.1	0
23	Carbon dioxide emissions effects of grid-scale electricity storage in a decarbonizing power system. Environmental Research Letters, 2018, 13, 014004.	2.2	37
24	Electricity Consumption and Load Profile Segmentation Analysis for Rural Micro Grid Customers in Tanzania. , 2018, , .		15
25	Sustainability implications of electricity outages in sub-Saharan Africa. Nature Sustainability, 2018, 1, 589-597.	11.5	87
26	Net-zero emissions energy systems. Science, 2018, 360, .	6.0	1,165
27	A retrospective analysis of the market price response to distributed photovoltaic generation in California. Energy Policy, 2018, 121, 394-403.	4.2	10
28	Going nuclear for climate mitigation: An analysis of the cost effectiveness of preserving existing U.S. nuclear power plants as a carbon avoidance strategy. Energy, 2017, 131, 67-77.	4.5	43
29	Evaluation of a proposal for reliable low-cost grid power with 100% wind, water, and solar. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6722-6727.	3.3	250
30	The Economic Merits of Flexible Carbon Capture and Sequestration as a Compliance Strategy with the Clean Power Plan. Environmental Science & Technology, 2017, 51, 1102-1109.	4.6	21
31	Trade-offs in cost and emission reductions between flexible and normal carbon capture and sequestration under carbon dioxide emission constraints. International Journal of Greenhouse Gas Control, 2017, 66, 25-34.	2.3	16
32	Greenhouse gas mitigation for U.S. plastics production: energy first, feedstocks later. Environmental Research Letters, 2017, 12, 034024.	2.2	92
33	Life cycle ownership cost and environmental externality of alternative fuel options for transit buses. Transportation Research, Part D: Transport and Environment, 2017, 57, 287-302.	3.2	53
34	Load characteristics of East African microgrids. , 2017, , .		21
35	The local socio-economic impacts of large hydropower plant development in a developing country. Energy Economics, 2017, 67, 533-544.	5.6	62
36	Beyond Global Warming Potential: A Comparative Application of Climate Impact Metrics for the Life Cycle Assessment of Coal and Natural Gas Based Electricity. Journal of Industrial Ecology, 2017, 21, 857-873.	2.8	37

#	Article	IF	Citations
37	Safety-related risk and benefit-cost analysis of crash avoidance systems applied to transit buses: Comparing New York City vs. Bogota, Colombia. Safety Science, 2017, 91, 122-131.	2.6	6
38	The future of power generation in Brazil: An analysis of alternatives to Amazonian hydropower development. Energy for Sustainable Development, 2017, 41, 24-35.	2.0	28
39	Consequential life cycle air emissions externalities for plug-in electric vehicles in the PJM interconnection. Environmental Research Letters, 2016, 11, 024009.	2.2	34
40	Implications of environmental regulation and coal plant retirements in systems with large scale penetration of wind power. Energy Policy, 2016, 95, 196-210.	4.2	14
41	PV-array sizing in hybrid diesel/PV/battery microgrids under uncertainty. , 2016, , .		12
42	Marginal costs of water savings from cooling system retrofits: a case study for Texas power plants. Environmental Research Letters, 2016, 11, 104004.	2.2	21
43	Should we build wind farms close to load or invest in transmission to access better wind resources in remote areas? A case study in the MISO region. Energy Policy, 2016, 96, 341-350.	4.2	25
44	Uncertainty in the Life Cycle Greenhouse Gas Emissions from U.S. Production of Three Biobased Polymer Families. Environmental Science & Technology, 2016, 50, 2846-2858.	4.6	58
45	Is rooftop solar PV at socket parity without subsidies?. Energy Policy, 2016, 89, 84-94.	4.2	58
46	Air pollution emissions and damages from energy production in the U.S.: 2002â€“2011. Energy Policy, 2016, 90, 202-211.	4.2	101
47	Energy development and Native Americans: Values and beliefs about energy from the Navajo Nation. Energy Research and Social Science, 2015, 7, 1-11.	3.0	35
48	Estimating greenhouse gas emissions from future Amazonian hydroelectric reservoirs. Environmental Research Letters, 2015, 10, 124019.	2.2	65
49	A review of large-scale wind integration studies. Renewable and Sustainable Energy Reviews, 2015, 49, 768-794.	8.2	39
50	Comparison of Life Cycle Greenhouse Gases from Natural Gas Pathways for Medium and Heavy-Duty Vehicles. Environmental Science & Technology, 2015, 49, 7123-7133.	4.6	77
51	Comparison of Life Cycle Greenhouse Gases from Natural Gas Pathways for Light-Duty Vehicles. Energy & Fuels, 2015, 29, 6008-6018.	2.5	58
52	Emissions and Cost Implications of Controlled Electric Vehicle Charging in the U.S. PJM Interconnection. Environmental Science & Technology, 2015, 49, 5813-5819.	4.6	53
53	State Cooperation Under the EPA's Proposed Clean Power Plan. Electricity Journal, 2015, 28, 26-40.	1.3	2
54	Enabling private sector investment in microgrid-based rural electrification in developing countries: A review. Renewable and Sustainable Energy Reviews, 2015, 52, 1268-1281.	8.2	138

#	Article	IF	Citations
55	A review of learning rates for electricity supply technologies. Energy Policy, 2015, 86, 198-218.	4.2	407
56	Evaluating the Benefits of Commercial Building Energy Codes and Improving Federal Incentives for Code Adoption. Environmental Science & Technology, 2014, 48, 14121-14130.	4.6	8
57	Life cycle consumptive water use for oil shale development and implications for water supply in the Colorado River Basin. International Journal of Life Cycle Assessment, 2014, 19, 677-687.	2.2	11
58	Estimating the potential of controlled plug-in hybrid electric vehicle charging to reduce operational and capacity expansion costs for electric power systems with high wind penetration. Applied Energy, 2014, 115, 190-204.	5.1	92
59	Profitability of CCS with flue gas bypass and solvent storage. International Journal of Greenhouse Gas Control, 2014, 27, 279-288.	2.3	43
60	The role of energy storage in accessing remote wind resources in the Midwest. Energy Policy, 2014, 68, 123-131.	4.2	20
61	Comparative lifecycle inventory (LCI) of greenhouse gas (GHG) emissions of enhanced oil recovery (EOR) methods using different CO2 sources. International Journal of Greenhouse Gas Control, 2013, 16, 129-144.	2.3	35
62	Comments on Jacobson et al.'s proposal for a wind, water, and solar energy future for New York State. Energy Policy, 2013, 60, 68-69.	4.2	9
63	Production cost and air emissions impacts of coal cycling in power systems with large-scale wind penetration. Environmental Research Letters, 2013, 8, 024022.	2.2	38
64	Quantifying the Hurricane Catastrophe Risk to Offshore Wind Power. Risk Analysis, 2013, 33, 2126-2141.	1.5	21
65	What day-ahead reserves are needed in electric grids with high levels of wind power?. Environmental Research Letters, 2013, 8, 034013.	2.2	15
66	The effect of long-distance interconnection on wind power variability. Environmental Research Letters, 2012, 7, 034017.	2.2	51
67	Implications of changing natural gas prices in the United States electricity sector for SO ₂ , NO _X and life cycle GHG emissions. Environmental Research Letters, 2012, 7, 034018.	2.2	38
68	Quantifying the hurricane risk to offshore wind turbines. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3247-3252.	3.3	68
69	Reply to Powell and Cocke: On the probability of catastrophic damage to offshore wind farms from hurricanes in the US Gulf Coast. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2193-E2194.	3.3	1
70	Uncertainty in Life Cycle Greenhouse Gas Emissions from United States Coal. Energy & Fuels, 2012, 26, 4917-4923.	2.5	43
71	Implications of Near-Term Coal Power Plant Retirement for SO₂ and NO_X and Life Cycle GHG Emissions. Environmental Science & Technology, 2012, 46, 9838-9845.	4.6	34
72	Potentials for Sustainable Transportation in Cities to Alleviate Climate Change Impacts. Environmental Science & Technology, 2012, 46, 2529-2537.	4.6	42

#	Article	IF	Citations
73	Comparative Analysis of Conventional Oil and Gas and Wind Project Decommissioning Regulations on Federal, State, and County Lands. Electricity Journal, 2012, 25, 29-45.	1.3	37
74	Life cycle greenhouse gas emissions of Marcellus shale gas. Environmental Research Letters, 2011, 6, 034014.	2.2	250
75	Uncertainty in Life Cycle Greenhouse Gas Emissions from United States Natural Gas End-Uses and its Effects on Policy. Environmental Science & Technology, 2011, 45, 8182-8189.	4.6	103
76	Uncertainty Analysis of Life Cycle Greenhouse Gas Emissions from Petroleum-Based Fuels and Impacts on Low Carbon Fuel Policies. Environmental Science & Technology, 2011, 45, 125-131.	4.6	82
77	Costs of Automobile Air Emissions in U.S. Metropolitan Areas. Transportation Research Record, 2011, 2233, 120-127.	1.0	21
78	Life cycle GHG emissions from Malaysian oil palm bioenergy development: The impact on transportation sector's energy security. Energy Policy, 2011, 39, 2615-2625.	4.2	63
79	Geologic sequestration through EOR: Policy and regulatory considerations for greenhouse gas accounting. Energy Procedia, 2011, 4, 5794-5801.	1.8	4
80	Valuation of plug-in vehicle life-cycle air emissions and oil displacement benefits. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16554-16558.	3.3	219
81	Reducing environmental burdens of solid-state lighting through end-of-life design. Environmental Research Letters, 2010, 5, 014016.	2.2	33
82	Life Cycle Assessment and Grid Electricity: What Do We Know and What Can We Know?. Environmental Science & Technology, 2010, 44, 1895-1901.	4.6	146
83	The Green Design Apprenticeship. Journal of Industrial Ecology, 2009, 13, 467-476.	2.8	5
84	Greenhouse gas implications of using coal for transportation: Life cycle assessment of coal-to-liquids, plug-in hybrids, and hydrogen pathways. Energy Policy, 2009, 37, 2689-2695.	4.2	140
85	Life Cycle Inventory of CO₂ in an Enhanced Oil Recovery System. Environmental Science & Technology, 2009, 43, 8027-8032.	4.6	120
86	Energy consumption in the production of high-brightness light-emitting diodes. , 2009, , .		7
87	Uncertainty and variability in accounting for grid electricity in life cycle assessment. , 2009, , .		3
88	Life cycle comparison of traditional retail and e-commerce logistics for electronic products: A case study of buy.com. , 2009, , .		28
89	Comparative Analysis of the Production Costs and Life-Cycle GHG Emissions of FT Liquid Fuels from Coal and Natural Gas. Environmental Science & Technology, 2008, 42, 7559-7565.	4.6	70
90	How much electricity do you use? An activity to teach high school students about energy issues. , 2008, , .		2

#	Article	IF	Citations
91	Comparative Life-Cycle Air Emissions of Coal, Domestic Natural Gas, LNG, and SNG for Electricity Generation. Environmental Science & Technology, 2007, 41, 6290-6296.	4.6	286
92	Landfill-Gas-to-Energy Projects:Â Analysis of Net Private and Social Benefits. Environmental Science & Technology, 2005, 39, 7365-7373.	4.6	78