

# Jerome Apt

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

3,895  
citations

29  
h-index

62  
g-index

84  
ext. papers

4,442  
ext. citations

7.6  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
80	Lithium-ion battery cell degradation resulting from realistic vehicle and vehicle-to-grid utilization. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 2385-2392	8.9	521
79	The economics of using plug-in hybrid electric vehicle battery packs for grid storage. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 2377-2384	8.9	355
78	Economics of electric energy storage for energy arbitrage and regulation in New York. <i>Energy Policy</i> , <b>2007</b> , 35, 2558-2568	7.2	306
77	Ecology. Managing soil carbon. <i>Science</i> , <b>2004</b> , 304, 393	33.3	229
76	The spectrum of power from wind turbines. <i>Journal of Power Sources</i> , <b>2007</b> , 169, 369-374	8.9	199
75	Evaluation of a proposal for reliable low-cost grid power with 100% wind, water, and solar. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6722-6727	11.5	177
74	Large blackouts in North America: Historical trends and policy implications. <i>Energy Policy</i> , <b>2009</b> , 37, 5249-5259	7.2	177
73	The variability of interconnected wind plants. <i>Energy Policy</i> , <b>2010</b> , 38, 4400-4410	7.2	131
72	Regional variations in the health, environmental, and climate benefits of wind and solar generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 11768-73	11.5	110
71	Economics of compressed air energy storage to integrate wind power: A case study in ERCOT. <i>Energy Policy</i> , <b>2011</b> , 39, 2330-2342	7.2	110
70	The character of power output from utility-scale photovoltaic systems. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2008</b> , 16, 241-247	6.8	108
69	Air emissions due to wind and solar power. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 253-8	10.3	102
68	What properties of grid energy storage are most valuable?. <i>Journal of Power Sources</i> , <b>2012</b> , 206, 436-449	8.9	76
67	Short run effects of a price on carbon dioxide emissions from U.S. electric generators. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 3139-44	10.3	69
66	Net air emissions from electric vehicles: the effect of carbon price and charging strategies. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1792-7	10.3	67
65	The cost of wind power variability. <i>Energy Policy</i> , <b>2012</b> , 51, 233-243	7.2	65
64	An economic welfare analysis of demand response in the PJM electricity market. <i>Energy Policy</i> , <b>2008</b> , 36, 3692-3702	7.2	63

63	Trends in the history of large blackouts in the United States <b>2008</b> ,		59
62	Rethinking Electricity Deregulation. <i>Electricity Journal</i> , <b>2004</b> , 17, 11-26	2.6	50
61	What can reanalysis data tell us about wind power?. <i>Renewable Energy</i> , <b>2015</b> , 83, 963-969	8.1	48
60	Distribution grid reconfiguration reduces power losses and helps integrate renewables. <i>Energy Policy</i> , <b>2012</b> , 48, 260-273	7.2	48
59	Quantifying the hurricane risk to offshore wind turbines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 3247-52	11.5	47
58	The effect of long-distance interconnection on wind power variability. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 034017	6.2	44
57	Compensating for wind variability using co-located natural gas generation and energy storage. <i>Energy Systems</i> , <b>2010</b> , 1, 417-439	1.7	41
56	The climate and health effects of a USA switch from coal to gas electricity generation. <i>Energy</i> , <b>2016</b> , 109, 1160-1166	7.9	40
55	Should a coal-fired power plant be replaced or retrofitted?. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 7980-6	10.3	33
54	Regulating the geological sequestration of CO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 2718-23	8.23	32
53	The effects of bulk electricity storage on the PJM market. <i>Energy Systems</i> , <b>2014</b> , 5, 677-704	1.7	31
52	A review of large-scale wind integration studies. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 49, 768-794	16.2	30
51	Emissions and Economics of Behind-the-Meter Electricity Storage. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 1094-1101	10.3	29
50	Geographic smoothing of solar PV: results from Gujarat. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 104001	1.2	27
49	Costs of solar and wind power variability for reducing CO <sub>2</sub> emissions. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 9761-7	10.3	26
48	Competition Has Not Lowered U.S. Industrial Electricity Prices. <i>Electricity Journal</i> , <b>2005</b> , 18, 52-61	2.6	22
47	Can a wind farm with CAES survive in the day-ahead market?. <i>Energy Policy</i> , <b>2012</b> , 48, 584-593	7.2	20
46	Implications of generator siting for CO <sub>2</sub> pipeline infrastructure. <i>Energy Policy</i> , <b>2008</b> , 36, 1776-1787	7.2	20

45	Lessons from the Failure of U.S. Electricity Restructuring. <i>Electricity Journal</i> , <b>2006</b> , 19, 15-32	2.6	18
44	Implications of compensating property owners for geologic sequestration of CO2. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 2897-903	10.3	17
43	Near-term implications of a ban on new coal-fired power plants in the United States. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3995-4001	10.3	17
42	Storing syngas lowers the carbon price for profitable coal gasification. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 7974-9	10.3	17
41	Are renewables portfolio standards cost-effective emission abatement policy?. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 8578-83	10.3	17
40	Quantifying sources of uncertainty in reanalysis derived wind speed. <i>Renewable Energy</i> , <b>2016</b> , 94, 157-165	5.1	17
39	Is it always windy somewhere? Occurrence of low-wind-power events over large areas. <i>Renewable Energy</i> , <b>2017</b> , 101, 1124-1130	8.1	16
38	Empirical prediction intervals improve energy forecasting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 8752-8757	11.5	16
37	Variability of the Wind Turbine Power Curve. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 262	2.6	16
36	Can hybrid solar-fossil power plants mitigate CO2 at lower cost than PV or CSP?. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2487-93	10.3	14
35	Generating wind time series as a hybrid of measured and simulated data. <i>Wind Energy</i> , <b>2012</b> , 15, 699-715	3.4	14
34	What day-ahead reserves are needed in electric grids with high levels of wind power?. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 034013	6.2	14
33	The air quality and human health effects of integrating utility-scale batteries into the New York State electricity grid. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 2405-2413	8.9	14
32	Can flow batteries scale in the behind-the-meter commercial and industrial market? A techno-economic comparison of storage technologies in California. <i>Journal of Power Sources</i> , <b>2019</b> , 420, 1-8	8.9	14
31	Power and People. <i>Electricity Journal</i> , <b>2006</b> , 19, 17-25	2.6	13
30	An effective method for modeling wind power forecast uncertainty. <i>Energy Systems</i> , <b>2013</b> , 4, 393-417	1.7	12
29	Quantifying the hurricane catastrophe risk to offshore wind power. <i>Risk Analysis</i> , <b>2013</b> , 33, 2126-41	3.9	12
28	Resource adequacy risks to the bulk power system in North America. <i>Applied Energy</i> , <b>2018</b> , 212, 1360-1376	6.7	10

27	The cost of curtailing wind turbines for secondary frequency regulation capacity. <i>Energy Systems</i> , <b>2014</b> , 5, 407-422	1.7	10
26	Planning for natural disasters in a stochastic world. <i>Journal of Risk and Uncertainty</i> , <b>2006</b> , 33, 117-130	3.1	10
25	Optimal investment timing and capacity choice for pumped hydropower storage. <i>Energy Systems</i> , <b>2014</b> , 5, 285-306	1.7	9
24	Analyzing PJM's economic demand response program <b>2008</b> ,		9
23	Incorporating seismic concerns in site selection for enhanced geothermal power generation. <i>Journal of Risk Research</i> , <b>2013</b> , 16, 1021-1036	4.2	7
22	Resource adequacy implications of temperature-dependent electric generator availability. <i>Applied Energy</i> , <b>2020</b> , 262, 114424	10.7	6
21	Robust resource adequacy planning in the face of coal retirements. <i>Energy Policy</i> , <b>2016</b> , 88, 371-388	7.2	6
20	A time-dependent model of generator failures and recoveries captures correlated events and quantifies temperature dependence. <i>Applied Energy</i> , <b>2019</b> , 253, 113513	10.7	6
19	The economics of commercial demand response for spinning reserve. <i>Energy Systems</i> , <b>2018</b> , 9, 3-23	1.7	5
18	How much capacity deferral value can targeted solar deployment create in Pennsylvania?. <i>Energy Policy</i> , <b>2019</b> , 134, 110902	7.2	5
17	The effect of variability-mitigating market rules on the operation of wind power plants. <i>Energy Systems</i> , <b>2014</b> , 5, 737-766	1.7	5
16	Response to Comment on "Air Emissions Due to Wind and Solar Power" <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6108-6109	10.3	5
15	Are high penetrations of commercial cogeneration good for society?. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 124014	6.2	5
14	What causes natural gas fuel shortages at U.S. power plants?. <i>Energy Policy</i> , <b>2020</b> , 147, 111805	7.2	4
13	Geographic smoothing of solar photovoltaic electric power production in the Western USA. <i>Journal of Renewable and Sustainable Energy</i> , <b>2018</b> , 10, 053504	2.5	4
12	Dynamic operating reserve procurement improves scarcity pricing in PJM. <i>Energy Policy</i> , <b>2020</b> , 147, 111857	7.2	3
11	Recent results on the integration of variable renewable electric power into the US grid. <i>MRS Energy &amp; Sustainability</i> , <b>2015</b> , 2, 1	2.2	3
10	Battery vehicles reduce CO <sub>2</sub> emissions. <i>Science</i> , <b>2011</b> , 333, 823	33.3	3

9	A Simple Metric for Predicting Revenue from Electric Peak-Shaving and Optimal Battery Sizing. <i>Energy Technology</i> , <b>2018</b> , 6, 649-657	3.5	2
8	Electricity Load and Carbon Dioxide Emissions: Effects of a Carbon Price in the Short Term <b>2008</b> ,		2
7	The importance of peak pricing in realizing system benefits from distributed storage. <i>Energy Policy</i> , <b>2021</b> , 157, 112484	7.2	2
6	A Solar-Centric Approach to Improving Estimates of Exposure Processes for Coronal Mass Ejections. <i>Risk Analysis</i> , <b>2020</b> , 40, 1020-1039	3.9	1
5	Evaluating economics of energy storage under growing renewable penetration scenarios <b>2010</b> ,		1
4	Lester Lave, visionary economist. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5457-8	10.3	1
3	Could on-site fuel storage economically reduce power plant-gas grid dependence in pipeline constrained areas like New England?. <i>Electricity Journal</i> , <b>2021</b> , 34, 106956	2.6	1
2	Using PV inverters for voltage support at night can lower grid costs. <i>Energy Reports</i> , <b>2022</b> , 8, 6347-6354	4.6	0
1	Electricity: Protecting Essential Services211-238		