

# Anthony R Florita

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6701577/publications.pdf>

Version: 2024-02-01

53  
papers

1,402  
citations

430874

18  
h-index

414414

32  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1541  
citing authors

#	ARTICLE	IF	CITATIONS
1	A suite of metrics for assessing the performance of solar power forecasting. Solar Energy, 2015, 111, 157-175.	6.1	168
2	The value of day-ahead solar power forecasting improvement. Solar Energy, 2016, 129, 192-203.	6.1	143
3	Quantifying the Economic and Grid Reliability Impacts of Improved Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2016, 7, 1525-1537.	8.8	82
4	An Optimized Swinging Door Algorithm for Identifying Wind Ramping Events. IEEE Transactions on Sustainable Energy, 2016, 7, 150-162.	8.8	80
5	The combined value of wind and solar power forecasting improvements and electricity storage. Applied Energy, 2018, 214, 1-15.	10.1	76
6	A Novel Event Detection Method Using PMU Data With High Precision. IEEE Transactions on Power Systems, 2019, 34, 454-466.	6.5	66
7	Occupancy sensing in buildings: A review of data analytics approaches. Energy and Buildings, 2019, 188-189, 278-285.	6.7	64
8	Ramp forecasting performance from improved short-term wind power forecasting over multiple spatial and temporal scales. Energy, 2017, 122, 528-541.	8.8	61
9	Characterizing and analyzing ramping events in wind power, solar power, load, and netload. Renewable Energy, 2017, 111, 227-244.	8.9	61
10	The value of improved wind power forecasting: Grid flexibility quantification, ramp capability analysis, and impacts of electricity market operation timescales. Applied Energy, 2016, 184, 696-713.	10.1	56
11	Stochastic Multi-Timescale Power System Operations With Variable Wind Generation. IEEE Transactions on Power Systems, 2017, 32, 3325-3337.	6.5	56
12	Identifying Wind and Solar Ramping Events. , 2013, , .		45
13	Modelling and calibration of a high-mass historic building for reducing the prebound effect in energy assessment. Energy and Buildings, 2016, 116, 434-448.	6.7	37
14	Comparison of Short-Term Weather Forecasting Models for Model Predictive Control. HVAC and R Research, 2009, 15, 835-853.	0.6	32
15	Hybrid Communication Architectures for Distributed Smart Grid Applications. Energies, 2018, 11, 871.	3.1	27
16	Sensitivity Analysis of Optimal Building Thermal Mass Control. Journal of Solar Energy Engineering, Transactions of the ASME, 2007, 129, 473-485.	1.8	25
17	A review of behind-the-meter solar forecasting. Renewable and Sustainable Energy Reviews, 2022, 160, 112224.	16.4	21
18	Ramp Forecasting Performance From Improved Short-Term Wind Power Forecasting. , 2014, , .		20

#	ARTICLE	IF	CITATIONS
19	A stochastic downscaling approach for generating high-frequency solar irradiance scenarios. Solar Energy, 2018, 176, 370-379.	6.1	19
20	Generalized Graph Laplacian Based Anomaly Detection for Spatiotemporal MicroPMU Data. IEEE Transactions on Power Systems, 2019, 34, 3960-3963.	6.5	19
21	Advances in Near-Optimal Control of Passive Building Thermal Storage. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	18
22	Joint Probability Distribution and Correlation Analysis of Wind and Solar Power Forecast Errors in the Western Interconnection. Journal of Energy Engineering - ASCE, 2015, 141, .	1.9	18
23	An optimized swinging door algorithm for wind power ramp event detection. , 2015, , .		17
24	An energy signal tool for decision support in building energy systems. Applied Energy, 2015, 138, 51-70.	10.1	17
25	Voltage Estimation in Low-Voltage Distribution Grids With Distributed Energy Resources. IEEE Transactions on Sustainable Energy, 2021, 12, 1640-1650.	8.8	17
26	Investigating the Correlation Between Wind and Solar Power Forecast Errors in the Western Interconnection. , 2013, , .		16
27	Multimodal sensor fusion framework for residential building occupancy detection. Energy and Buildings, 2022, 258, 111828.	6.7	15
28	Comparison of Traditional and Bayesian Calibration Techniques for Gray-Box Modeling. Journal of Architectural Engineering, 2014, 20, 04013011.	1.6	14
29	Classification of Commercial Building Electrical Demand Profiles for Energy Storage Applications. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.8	13
30	Modeling and Simulation of High-Frequency Solar Irradiance. IEEE Journal of Photovoltaics, 2019, 9, 124-131.	2.5	12
31	Analysis of Hybrid Smart Grid Communication Network Designs for Distributed Energy Resources Coordination. , 2019, , .		11
32	Integrated distribution system and urban district planning with high renewable penetrations. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e339.	4.1	11
33	Simulating dispatchable grid services provided by flexible building loads: State of the art and needed building energy modeling improvements. Building Simulation, 2021, 14, 441-462.	5.6	11
34	Solar Power Ramp Events Detection Using an Optimized Swinging Door Algorithm. , 2015, , .		9
35	Probabilistic wind power ramp forecasting based on a scenario generation method. , 2017, , .		8
36	An assessment of the impact of stochastic day-ahead SCUC on economic and reliability metrics at multiple timescales. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
37	Experimental verification of an energy consumption signal tool for operational decision support in an office building. Automation in Construction, 2016, 72, 75-92.	9.8	4
38	For publication in 2019 ACC A flexible framework for building occupancy detection using spatiotemporal pattern networks. , 2019, , .		4
39	WHISPER: Wireless Home Identification and Sensing Platform for Energy Reduction. Journal of Sensor and Actuator Networks, 2021, 10, 71.	3.9	4
40	Empirical Investigations of the Opportunity Limits of Automatic Residential Electric Load Shaping. , 2017, , .		3
41	Quantifying the economic and grid reliability impacts of improved wind power forecasting. , 2017, , .		3
42	Advances in Near-Optimal Control of Passive Building Thermal Storage. , 2009, , .		3
43	Sensitivity Analysis of Optimal Building Thermal Mass Control. , 2005, , .		3
44	Automatic regionalization algorithm for distributed state estimation in power systems. , 2016, , .		2
45	Estimating the value of jointly optimized electric power generation and end use: a study of ISO-scale load shaping applied to the residential building stock. Journal of Building Performance Simulation, 2022, 15, 507-535.	2.0	2
46	Simulation-based Parameter Optimization Framework for Large-Scale Hybrid Smart Grid Communications Systems Design. , 2018, , .		1
47	Classification of Commercial Building Electrical Demand Profiles for Energy Storage Applications. , 2012, , .		1
48	Distributed PV generation estimation using multi-rate and event-driven Kalman kriging filter. IET Smart Grid, 2020, 3, 538-546.	2.2	1
49	Probabilistic Identification of inverse Building Model Parameters. , 2013, , .		0
50	Reserve Estimation in Renewable Integration Studies. Power Electronics and Power Systems, 2017, , 167-187.	0.6	0
51	Integrated multi-scale data analytics and machine learning for the distribution grid. , 2017, , .		0
52	Quantifying the Opportunity Limits of Automatic Residential Electric Load Shaping. Energies, 2019, 12, 3204.	3.1	0
53	Matrix Completion for Improved Observability in Low-Voltage Distribution Grids. , 2021, , .		0