

# Andrew Clifton

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2249969/publications.pdf>

Version: 2024-02-01

38  
papers

2,088  
citations

361413

20  
h-index

377865

34  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Grand challenges in the science of wind energy. <i>Science</i> , 2019, 366, .	12.6	482
2	The Wind Integration National Dataset (WIND) Toolkit. <i>Applied Energy</i> , 2015, 151, 355-366.	10.1	394
3	Persistence in intra-annual snow depth distribution: 1. Measurements and topographic control. <i>Water Resources Research</i> , 2011, 47, .	4.2	136
4	Snow saltation threshold measurements in a drifting-snow wind tunnel. <i>Journal of Glaciology</i> , 2006, 52, 585-596.	2.2	96
5	Using machine learning to predict wind turbine power output. <i>Environmental Research Letters</i> , 2013, 8, 024009.	5.2	89
6	Quantifying error of lidar and sodar Doppler beam swinging measurements of wind turbine wakes using computational fluid dynamics. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 907-920.	3.1	86
7	Field-test results using a nacelle-mounted lidar for improving wind turbine power capture by reducing yaw misalignment. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012002.	0.4	82
8	Wind turbine power production and annual energy production depend on atmospheric stability and turbulence. <i>Wind Energy Science</i> , 2016, 1, 221-236.	3.3	65
9	Assessing State-of-the-Art Capabilities for Probing the Atmospheric Boundary Layer: The XPIA Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 289-314.	3.3	59
10	On Shear-Driven Ventilation of Snow. <i>Boundary-Layer Meteorology</i> , 2008, 126, 249-261.	2.3	46
11	Rotor equivalent wind speed for power curve measurement – comparative exercise for IEA Wind Annex 32. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012108.	0.4	44
12	IEA Wind Task 32: Wind Lidar Identifying and Mitigating Barriers to the Adoption of Wind Lidar. <i>Remote Sensing</i> , 2018, 10, 406.	4.0	41
13	Improvement and validation of a snow saltation model using wind tunnel measurements. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 2156-2173.	2.5	38
14	Data Clustering Reveals Climate Impacts on Local Wind Phenomena. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 1547-1557.	1.5	38
15	Turbine Inflow Characterization at the National Wind Technology Center. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2013, 135, .	1.8	34
16	Wind power curve modeling in complex terrain using statistical models. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	2.0	27
17	Wind Measurements from Arc Scans with Doppler Wind Lidar. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 2024-2040.	1.3	27
18	Detailed field test of yaw-based wake steering. <i>Journal of Physics: Conference Series</i> , 2016, 753, 052003.	0.4	25

#	ARTICLE	IF	CITATIONS
19	On the saltation of fresh snow in a wind tunnel: Profile characterization and single particle statistics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	23
20	Accounting for the effect of turbulence on wind turbine power curves. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012109.	0.4	23
21	Atmospheric turbulence affects wind turbine nacelle transfer functions. <i>Wind Energy Science</i> , 2017, 2, 295-306.	3.3	21
22	Effect of winds in a mountain pass on turbine performance. <i>Wind Energy</i> , 2014, 17, 1543-1562.	4.2	20
23	Reducing the Uncertainty of Lidar Measurements in Complex Terrain Using a Linear Model Approach. <i>Remote Sensing</i> , 2018, 10, 1465.	4.0	20
24	Verification of moisture budgets during drifting snow conditions in a cold wind tunnel. <i>Water Resources Research</i> , 2009, 45, .	4.2	19
25	Blowing Snow Fluxes in the Cariboo Mountains of British Columbia, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 2010, 42, 188-197.	1.1	16
26	An error reduction algorithm to improve lidar turbulence estimates for wind energy. <i>Wind Energy Science</i> , 2017, 2, 77-95.	3.3	15
27	Spatially resolved skin friction velocity measurements using Irwin sensors: A calibration and accuracy analysis. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 104-106, 314-321.	3.9	14
28	Wind and solar resource data sets. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2018, 7, e276.	4.1	13
29	The Power Curve Working Group's assessment of wind turbine power performance prediction methods. <i>Wind Energy Science</i> , 2020, 5, 199-223.	3.3	12
30	Improving Wind Predictions in the Marine Atmospheric Boundary Layer through Parameter Estimation in a Single-Column Model. <i>Monthly Weather Review</i> , 2017, 145, 5-24.	1.4	11
31	Forecasting wind ramps: can long-range lidar increase accuracy?. <i>Journal of Physics: Conference Series</i> , 2018, 1102, 012013.	0.4	10
32	On the effects of inter-farm interactions at the offshore wind farm Alpha Ventus. <i>Wind Energy Science</i> , 2021, 6, 1455-1472.	3.3	9
33	A numerical framework for constraining synthetic wind fields with lidar measurements for improved load simulations. , 2020, , .		6
34	Temporal Coherence: A Model for Non-stationarity in Natural and Simulated Wind Records. <i>Boundary-Layer Meteorology</i> , 2016, 159, 373-389.	2.3	4
35	Localization of wind turbine noise using a microphone array in wind tunnel measurements. <i>Wind Energy</i> , 2022, 25, 149-167.	4.2	3
36	Improving lidar turbulence estimates for wind energy. <i>Journal of Physics: Conference Series</i> , 2016, 753, 072010.	0.4	0

#	ARTICLE	IF	CITATIONS
37	Turbine Inflow Characterization at the National Wind Technology Center. , 2012, , .		0
38	Qlunc: Quantification of lidar uncertainty. Journal of Open Source Software, 2021, 6, 3211.	4.6	0