# Andrew Clifton

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Localization of wind turbine noise using a microphone array in wind tunnel measurements. Wind Energy, 2022, 25, 149-167. | 4.2 | 3 |
| 2 | Qlunc: Quantification of lidar uncertainty. Journal of Open Source Software, 2021, 6, 3211. | 4.6 | 0 |
| 3 | On the effects of inter-farm interactions at the offshore wind farm Alpha Ventus. Wind Energy Science, 2021, 6, 1455-1472. | 3.3 | 9 |
| 4 | A numerical framework for constraining synthetic wind fields with lidar measurements for improved load simulations. , 2020, , . | | 6 |
| 5 | The Power Curve Working Group's assessment of wind turbine power performance prediction methods. Wind Energy Science, 2020, 5, 199-223. | 3.3 | 12 |
| 6 | Grand challenges in the science of wind energy. Science, 2019, 366, . | 12.6 | 482 |
| 7 | Wind and solar resource data sets. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e276. | 4.1 | 13 |
| 8 | Forecasting wind ramps: can long-range lidar increase accuracy?. Journal of Physics: Conference Series, 2018, 1102, 012013. | 0.4 | 10 |
| 9 | Reducing the Uncertainty of Lidar Measurements in Complex Terrain Using a Linear Model Approach. Remote Sensing, 2018, 10, 1465. | 4.0 | 20 |
| 10 | IEA Wind Task 32: Wind Lidar Identifying and Mitigating Barriers to the Adoption of Wind Lidar. Remote Sensing, 2018, 10, 406. | 4.0 | 41 |
| 11 | Assessing State-of-the-Art Capabilities for Probing the Atmospheric Boundary Layer: The XPIA Field Campaign. Bulletin of the American Meteorological Society, 2017, 98, 289-314. | 3.3 | 59 |
| 12 | Improving Wind Predictions in the Marine Atmospheric Boundary Layer through Parameter Estimation in a Single-Column Model. Monthly Weather Review, 2017, 145, 5-24. | 1.4 | 11 |
| 13 | Atmospheric turbulence affects wind turbine nacelle transfer functions. Wind Energy Science, 2017, 2, 295-306. | 3.3 | 21 |
| 14 | An error reduction algorithm to improve lidar turbulence estimates for wind energy. Wind Energy Science, 2017, 2, 77-95. | 3.3 | 15 |
| 15 | Improving lidar turbulence estimates for wind energy. Journal of Physics: Conference Series, 2016, 753, 072010. | 0.4 | 0 |
| 16 | Detailed field test of yaw-based wake steering. Journal of Physics: Conference Series, 2016, 753, 052003. | 0.4 | 25 |
| 17 | Temporal Coherence: A Model for Non-stationarity in Natural and Simulated Wind Records. Boundary-Layer Meteorology, 2016, 159, 373-389. | 2.3 | 4 |
| 18 | Wind turbine power production and annual energy production depend on atmospheric stability and turbulence. Wind Energy Science, 2016, 1, 221-236. | 3.3 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Wind Integration National Dataset (WIND) Toolkit. Applied Energy, 2015, 151, 355-366. | 10.1 | 394 |
| 20 | Quantifying error of lidar and sodar Doppler beam swinging measurements of wind turbine wakes using computational fluid dynamics. Atmospheric Measurement Techniques, 2015, 8, 907-920. | 3.1 | 86 |
| 21 | Wind power curve modeling in complex terrain using statistical models. Journal of Renewable and Sustainable Energy, 2015, 7, . | 2.0 | 27 |
| 22 | Wind Measurements from Arc Scans with Doppler Wind Lidar. Journal of Atmospheric and Oceanic Technology, 2015, 32, 2024-2040. | 1.3 | 27 |
| 23 | Effect of winds in a mountain pass on turbine performance. Wind Energy, 2014, 17, 1543-1562. | 4.2 | 20 |
| 24 | Field-test results using a nacelle-mounted lidar for improving wind turbine power capture by reducing yaw misalignment. Journal of Physics: Conference Series, 2014, 524, 012002. | 0.4 | 82 |
| 25 | Rotor equivalent wind speed for power curve measurement â€“ comparative exercise for IEA Wind Annex 32. Journal of Physics: Conference Series, 2014, 524, 012108. | 0.4 | 44 |
| 26 | Accounting for the effect of turbulence on wind turbine power curves. Journal of Physics: Conference Series, 2014, 524, 012109. | 0.4 | 23 |
| 27 | Turbine Inflow Characterization at the National Wind Technology Center. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, . | 1.8 | 34 |
| 28 | Using machine learning to predict wind turbine power output. Environmental Research Letters, 2013, 8, 024009. | 5.2 | 89 |
| 29 | Data Clustering Reveals Climate Impacts on Local Wind Phenomena. Journal of Applied Meteorology and Climatology, 2012, 51, 1547-1557. | 1.5 | 38 |
| 30 | Spatially resolved skin friction velocity measurements using Irwin sensors: A calibration and accuracy analysis. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 104-106, 314-321. | 3.9 | 14 |
| 31 | Turbine Inflow Characterization at the National Wind Technology Center. , 2012, , . | | 0 |
| 32 | Persistence in intraâ€annual snow depth distribution: 1.â€ƒMeasurements and topographic control. Water Resources Research, 2011, 47, . | 4.2 | 136 |
| 33 | Blowing Snow Fluxes in the Cariboo Mountains of British Columbia, Canada. Arctic, Antarctic, and Alpine Research, 2010, 42, 188-197. | 1.1 | 16 |
| 34 | Verification of moisture budgets during drifting snow conditions in a cold wind tunnel. Water Resources Research, 2009, 45, . | 4.2 | 19 |
| 35 | On Shear-Driven Ventilation of Snow. Boundary-Layer Meteorology, 2008, 126, 249-261. | 2.3 | 46 |
| 36 | Improvement and validation of a snow saltation model using wind tunnel measurements. Earth Surface Processes and Landforms, 2008, 33, 2156-2173. | 2.5 | 38 |

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| 37 | On the saltation of fresh snow in a wind tunnel: Profile characterization and single particle statistics. Journal of Geophysical Research, 2008, 113, . | 3.3 | 23 |
| 38 | Snow saltation threshold measurements in a drifting-snow wind tunnel. Journal of Glaciology, 2006, 52, 585-596. | 2.2 | 96 |