# Alfredo Pá°½na

List of Publications by Year
in descending order



| 81 | 3,008 | 147726 31 | 168321 53 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 114 | 114 | 114 | 1939 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Assessing Obukhov Length and Friction Velocity from Floating Lidar Observations: A Data Screening and Sensitivity Computation Approach. Remote Sensing, 2022, 14, 1394. | 1.8 | 8 |
| 2 | Turbulence statistics from three different nacelle lidars. Wind Energy Science, 2022, 7, 831-848. | 1.2 | 7 |
| 3 | Evaluation of the global-blockage effect on power performance through simulations and measurements. Wind Energy Science, 2022, 7, 875-886. | 1.2 | 5 |
| 4 | The space-time structure of turbulence for lidar-assisted wind turbine control. Renewable Energy, 2022, 195, 293-310. | 4.3 | 7 |
| 5 | A one-year long turbulence simulation using a WRF-LES based modeling system at Ã˜sterild. Journal of Physics: Conference Series, 2022, 2265, 022011. | 0.3 | 0 |
| 6 | Wind turbine power performance characterization through aeroelastic simulations and virtual nacelle lidar measurements. Journal of Physics: Conference Series, 2022, 2265, 022059. | 0.3 | 1 |
| 7 | Influence of nacelle-lidar scanning patterns on inflow turbulence characterization. Journal of Physics: Conference Series, 2022, 2265, 022016. | 0.3 | 2 |
| 8 | Characterization of offshore vertical wind shear conditions in Southern New England. Wind Energy, 2021, 24, 465-480. | 1.9 | 9 |
| 9 | Lidar Observations and Numerical Simulations of an Atmospheric Hydraulic Jump and Mountain Waves. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033744. | 1.2 | 3 |
| 10 | Evaluation of idealized large-eddy simulations performed with the Weather Research and Forecasting model using turbulence measurements from a 250â€‰m meteorological mast. Wind Energy Science, 2021, 6, 645-661. | 1.2 | 10 |
| 11 | Departure from Flux-Gradient Relation in the Planetary Boundary Layer. Atmosphere, 2021, 12, 672. | 1.0 | 2 |
| 12 | Wind turbine load validation in wakes using wind field reconstruction techniques and nacelle lidar wind retrievals. Wind Energy Science, 2021, 6, 841-866. | 1.2 | 15 |
| 13 | Towards Better Wind Resource Modeling in Complex Terrain: A k-Nearest Neighbors Approach. Energies, 2021, 14, 4364. | 1.6 | 3 |
| 14 | A hybrid solution for offshore wind resource assessment from limited onshore measurements. Applied Energy, 2021, 298, 117245. | 5.1 | 5 |
| 15 | Probabilistic estimation of the Dynamic Wake Meandering model parameters using SpinnerLidar-derived wake characteristics. Wind Energy Science, 2021, 6, 1117-1142. | 1.2 | 9 |
| 16 | Evaluating planetary boundary-layer schemes and large-eddy simulations with measurements from a 250-m meteorological mast. Journal of Physics: Conference Series, 2020, 1618, 062001. | 0.3 | 3 |
| 17 | Wind turbine wake characterization using the SpinnerLidar measurements. Journal of Physics: Conference Series, 2020, 1618, 062040. | 0.3 | 4 |
| 18 | The Effect of Averaging, Sampling, and Time Series Length on Wind Power Density Estimations. Sustainability, 2020, 12, 3431. | 1.6 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Flux-gradient relation and atmospheric wind profiles â€" an exploration using WRF and lidars. Journal of Physics: Conference Series, 2020, 1618, 032032. | 0.3 | 1 |
| 20 | Aeroelastic load validation in wake conditions using nacelle-mounted lidar measurements. Wind Energy Science, 2020, 5, 1129-1154. | 1.2 | 13 |
| 21 | Rossby number similarity of an atmospheric RANS model using limited-length-scale turbulence closures extended to unstable stratification. Wind Energy Science, 2020, 5, 355-374. | 1.2 | 13 |
| 22 | Wind turbine load validation using lidarâ€based wind retrievals. Wind Energy, 2019, 22, 1512-1533. | 1.9 | 19 |
| 23 | Turbulence Measurements with Dual-Doppler Scanning Lidars. Remote Sensing, 2019, 11, 2444. | 1.8 | 6 |
| 24 | Impact of Long-Term Exposure to Wind Turbine Noise on Redemption of Sleep Medication and Antidepressants: A Nationwide Cohort Study. Environmental Health Perspectives, 2019, 127, 37005. | 2.8 | 24 |
| 25 | Long-Term Exposure to Wind Turbine Noise and Risk for Myocardial Infarction and Stroke: A Nationwide Cohort Study. Environmental Health Perspectives, 2019, 127, 37004. | 2.8 | 17 |
| 26 | A method to assess the accuracy of sonic anemometer measurements. Atmospheric Measurement Techniques, 2019, 12, 237-252. | 1.2 | 18 |
| 27 | Ã˜sterild: A natural laboratory for atmospheric turbulence. Journal of Renewable and Sustainable Energy, 2019, 11, . | 0.8 | 25 |
| 28 | Short-term nighttime wind turbine noise and cardiovascular events: A nationwide case-crossover study from Denmark. Environment International, 2018, 114, 160-166. | 4.8 | 27 |
| 29 | Evaluating Mesoscale Simulations of the Coastal Flow Using Lidar Measurements. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2718-2736. | 1.2 | 9 |
| 30 | Long-term exposure to wind turbine noise at night and risk for diabetes: A nationwide cohort study. Environmental Research, 2018, 165, 40-45. | 3.7 | 23 |
| 31 | Inflow characterization using measurements from the SpinnerLidar: the ScanFlow experiment. Journal of Physics: Conference Series, 2018, 1037, 052027. | 0.3 | 4 |
| 32 | Evaluation of two microscale flow models through two wind climate generalization procedures using observations from seven masts at a complex site in Brazil. Journal of Renewable and Sustainable Energy, 2018, 10, . | 0.8 | 4 |
| 33 | Long-term exposure to wind turbine noise and redemption of antihypertensive medication: A nationwide cohort study. Environment International, 2018, 121, 207-215. | 4.8 | 15 |
| 34 | Pregnancy exposure to wind turbine noise and adverse birth outcomes: a nationwide cohort study. Environmental Research, 2018, 167, 770-775. | 3.7 | 16 |
| 35 | On wake modeling, wind-farm gradients, and AEP predictions at the Anholt wind farm. Wind Energy Science, 2018, 3, 191-202. | 1.2 | 16 |
| 36 | How does turbulence change approaching a rotor?. Wind Energy Science, 2018, 3, 293-300. | 1.2 | 17 |

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| 37 | Very short-term forecast of near-coastal flow using scanning lidars. Wind Energy Science, 2018, 3, 313-327. | 1.2 | 22 |
| 38 | Complex terrain experiments in the New European Wind Atlas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160101. | 1.6 | 82 |
| 39 | Challenges in simulating coastal effects on an offshore wind farm. Journal of Physics: Conference Series, 2017, 854, 012046. | 0.3 | 11 |
| 40 | Turbulence characterization from a forward-looking nacelle lidar. Wind Energy Science, 2017, 2, 133-152. | 1.2 | 34 |
| 41 | The RUNE Experimentâ€"A Database of Remote-Sensing Observations of Near-Shore Winds. Remote Sensing, 2016, 8, 884. | 1.8 | 26 |
| 42 | The fence experiment â€" a first evaluation of shelter models. Journal of Physics: Conference Series, 2016, 753, 072009. | 0.3 | 0 |
| 43 | On the application of the Jensen wake model using a turbulenceâ€dependent wake decay coefficient: the Sexbierum case. Wind Energy, 2016, 19, 763-776. | 1.9 | 73 |
| 44 | Extrapolating Satellite Winds to Turbine Operating Heights. Journal of Applied Meteorology and Climatology, 2016, 55, 975-991. | 0.6 | 29 |
| 45 | Wind turbine wake models developed at the technical university of Denmark: A review. Renewable and Sustainable Energy Reviews, 2016, 60, 752-769. | 8.2 | 229 |
| 46 | Weibull Wind-Speed Distribution Parameters Derived from a Combination of Wind-Lidar and Tall-Mast Measurements Over Land, Coastal and Marine Sites. Boundary-Layer Meteorology, 2016, 159, 329-348. | 1.2 | 51 |
| 47 | Ten Years of Boundary-Layer and Wind-Power Meteorology at HÃ¸vsÃ¸re, Denmark. Boundary-Layer Meteorology, 2016, 158, 1-26. | 1.2 | 72 |
| 48 | The fence experiment â€“ full-scale lidar-based shelter observations. Wind Energy Science, 2016, 1, 101-114. | 1.2 | 9 |
| 49 | Reply to the Comment by Bergmann on â€œThe HÃ¸vsÃ¸re Tall Wind-Profile Experiment: A Description of Wind Profile Observations in the Atmospheric Boundary Layerâ€• Boundary-Layer Meteorology, 2015, 157, 547-551. | 1.2 | 2 |
| 50 | Using Satellite SAR to Characterize the Wind Flow around Offshore Wind Farms. Energies, 2015, 8, 5413-5439. | 1.6 | 55 |
| 51 | The effect of baroclinicity on the wind in the planetary boundary layer. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 619-630. | 1.0 | 22 |
| 52 | Wind climate estimation using WRF model output: method and model sensitivities over the sea. International Journal of Climatology, 2015, 35, 3422-3439. | 1.5 | 124 |
| 53 | Offshore wind climatology based on synergetic use of Envisat ASAR, ASCAT and QuikSCAT. Remote Sensing of Environment, 2015, 156, 247-263. | 4.6 | 124 |
| 54 | Lidar observations of marine boundary-layer winds and heights: a preliminary study. Meteorologische Zeitschrift, 2015, 24, 581-589. | 0.5 | 14 |

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| 55 | The turning of the wind in the atmospheric boundary layer. Journal of Physics: Conference Series, 2014, 524, 012118. | 0.3 | 20 |
| 56 | Modeling large offshore wind farms under different atmospheric stability regimes with the Park wake model. Renewable Energy, 2014, 70, 164-171. | 4.3 | 33 |
| 57 | Atmospheric stabilityâ€dependent infinite windâ€farm models and the wakeâ€decay coefficient. Wind Energy, 2014, 17, 1269-1285. | 1.9 | 71 |
| 58 | Wind characteristics in the North and Baltic Seas from the QuikSCAT satellite. Wind Energy, 2014, 17, 123-140. | 1.9 | 48 |
| 59 | Long-Term Profiles of Wind and Weibull Distribution Parameters up to 600 m in a Rural Coastal and an Inland Suburban Area. Boundary-Layer Meteorology, 2014, 150, 167-184. | 1.2 | 27 |
| 60 | The HÃ¸vsÃ¸re Tall Wind-Profile Experiment: A Description of Wind Profile Observations in the Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2014, 150, 69-89. | 1.2 | 33 |
| 61 | Evaluating winds and vertical wind shear from Weather Research and Forecasting model forecasts using seven planetary boundary layer schemes. Wind Energy, 2014, 17, 39-55. | 1.9 | 131 |
| 62 | Evaluation of the wind direction uncertainty and its impact on wake modeling at the Horns Rev offshore wind farm. Wind Energy, 2014, 17, 1169-1178. | 1.9 | 154 |
| 63 | Observations of the atmospheric boundary layer height under marine upstream flow conditions at a coastal site. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1924-1940. | 1.2 | 29 |
| 64 | Spatial and temporal variability of winds in the Northern European Seas. Renewable Energy, 2013, 57, 200-210. | 4.3 | 92 |
| 65 | The Wind Profile in the Coastal Boundary Layer: Wind Lidar Measurements and Numerical Modelling. Boundary-Layer Meteorology, 2013, 147, 469-491. | 1.2 | 55 |
| 66 | Wind Farm Wake: The Horns Rev Photo Case. Energies, 2013, 6, 696-716. | 1.6 | 60 |
| 67 | Hub Height Ocean Winds over the North Sea Observed by the NORSEWInD Lidar Array: Measuring Techniques, Quality Control and Data Management. Remote Sensing, 2013, 5, 4280-4303. | 1.8 | 42 |
| 68 | Spectral Properties of ENVISAT ASAR and QuikSCAT Surface Winds in the North Sea. Remote Sensing, 2013, 5, 6096-6115. | 1.8 | 8 |
| 69 | Atmospheric stability and turbulence fluxes at Horns Revâ€"an intercomparison of sonic, bulk and WRF model data. Wind Energy, 2012, 15, 717-731. | 1.9 | 39 |
| 70 | Analysis of diabatic flow modification in the internal boundary layer. Meteorologische Zeitschrift, 2011, 20, 649-659. | 0.5 | 21 |
| 71 | SAR-Based Wind Resource Statistics in the Baltic Sea. Remote Sensing, 2011, 3, 117-144. | 1.8 | 97 |
| 72 | Comparison of the atmospheric stability and wind profiles at two wind farm sites over a long marine fetch in the North Sea. Wind Energy, 2011, 14, 767-780. | 1.9 | 75 |

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| 73 | Comparing mixing-length models of the diabatic wind profile over homogeneous terrain. Theoretical and Applied Climatology, 2010, 100, 325-335. | 1.3 | 59 |
| 74 | On the lengthâ€scale of the wind profile. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 2119-2131. | 1.0 | 70 |
| 75 | Wind Class Sampling of Satellite SAR Imagery for Offshore Wind Resource Mapping. Journal of Applied Meteorology and Climatology, 2010, 49, 2474-2491. | 0.6 | 41 |
| 76 | Lidar Scanning of Momentum Flux in and above the Atmospheric Surface Layer. Journal of Atmospheric and Oceanic Technology, 2010, 27, 959-976. | 0.5 | 64 |
| 77 | Length Scales of the Neutral Wind Profile over Homogeneous Terrain. Journal of Applied Meteorology and Climatology, 2010, 49, 792-806. | 0.6 | 50 |
| 78 | Offshore wind profiling using light detection and ranging measurements. Wind Energy, 2009, 12, 105-124. | 1.9 | 121 |
| 79 | Charnockâ€™s Roughness Length Model and Non-dimensional Wind Profiles Over the Sea. Boundary-Layer Meteorology, 2008, 128, 191-203. | 1.2 | 50 |
| 80 | Measurements and Modelling of the Wind Speed Profile in the Marine Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2008, 129, 479-495. | 1.2 | 88 |
| 81 | Remote Sensing Observation Used in Offshore Wind Energy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2008, 1, 67-79. | 2.3 | 71 |