

# Nikolas Angelou

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

770  
citations

471061

17  
h-index

525886

27  
g-index

41  
all docs

41  
docs citations

41  
times ranked

655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drag coefficient and frontal area of a solitary mature tree. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 220, 104854.	1.7	4
2	Wind lidars reveal turbulence transport mechanism in the wake of a tree. Atmospheric Chemistry and Physics, 2022, 22, 2255-2268.	1.9	2
3	Scanning Doppler lidar measurements of drag force on a solitary tree. Journal of Fluid Mechanics, 2021, 917, .	1.4	4
4	The motion of trees in the wind: a data synthesis. Biogeosciences, 2021, 18, 4059-4072.	1.3	28
5	Wind load estimation on an open-grown European oak tree. Forestry, 2019, 92, 381-392.	1.2	19
6	Observed and modeled near-wake flow behind a solitary tree. Agricultural and Forest Meteorology, 2019, 265, 78-87.	1.9	29
7	Power curve and wake analyses of the Vestas multi-rotor demonstrator. Wind Energy Science, 2019, 4, 251-271.	1.2	52
8	Scanning Lidar Spatial Calibration and Alignment Method for Wind Turbine Wake Characterization. , 2017, , .		9
9	Complex terrain experiments in the New European Wind Atlas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160101.	1.6	82
10	Validation of a CFD model with a synchronized triple-lidar system in the wind turbine induction zone. Wind Energy, 2017, 20, 1481-1498.	1.9	14
11	Full-scale observation of the flow downstream of a suspension bridge deck. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 261-272.	1.7	14
12	Lidars for Wind Tunnels - an IRPWind Joint Experiment Project. Energy Procedia, 2017, 137, 339-345.	1.8	2
13	Perdigão 2015: methodology for atmospheric multi-Doppler lidar experiments. Atmospheric Measurement Techniques, 2017, 10, 3463-3483.	1.2	57
14	Effect of shot peening on the residual stress and mechanical behaviour of low-temperature and high-temperature annealed martensitic gear steel 18CrNiMo7-6. IOP Conference Series: Materials Science and Engineering, 2017, 219, 012046.	0.3	5
15	3D WindScanner lidar measurements of wind and turbulence around wind turbines, buildings and bridges. IOP Conference Series: Materials Science and Engineering, 2017, 276, 012004.	0.3	10
16	Demonstration and uncertainty analysis of synchronised scanning lidar measurements of 2-D velocity fields in a boundary-layer wind tunnel. Wind Energy Science, 2017, 2, 329-341.	1.2	20
17	The fence experiment "a first evaluation of shelter models. Journal of Physics: Conference Series, 2016, 753, 072009.	0.3	0
18	Investigation of wake interaction using full-scale lidar measurements and large eddy simulation. Wind Energy, 2016, 19, 1535-1551.	1.9	25

#	ARTICLE	IF	CITATIONS
19	Wind turbine wake measurement in complex terrain. Journal of Physics: Conference Series, 2016, 753, 032013.	0.3	17
20	Detailed field test of yaw-based wake steering. Journal of Physics: Conference Series, 2016, 753, 052003.	0.3	25
21	Characterization of wind velocities in the upstream induction zone of a wind turbine using scanning continuous-wave lidars. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	74
22	Characterization of wind velocities in the wake of a full scale wind turbine using three ground-based synchronized WindScanners. Journal of Physics: Conference Series, 2016, 753, 032032.	0.3	5
23	Demonstration of synchronised scanning Lidar measurements of 2D velocity fields in a boundary-layer wind tunnel. Journal of Physics: Conference Series, 2016, 753, 072032.	0.3	5
24	Application of short-range dual-Doppler lidars to evaluate the coherence of turbulence. Experiments in Fluids, 2016, 57, 1.	1.1	20
25	Variations of the Wake Height over the Bolund Escarpment Measured by a Scanning Lidar. Boundary-Layer Meteorology, 2016, 159, 147-159.	1.2	26
26	The fence experiment – full-scale lidar-based shelter observations. Wind Energy Science, 2016, 1, 101-114.	1.2	9
27	Assessment of Wind Conditions at a Fjord Inlet by Complementary Use of Sonic Anemometers and Lidars. Energy Procedia, 2015, 80, 411-421.	1.8	4
28	Two-Dimensional Rotorcraft Downwash Flow Field Measurements by Lidar-Based Wind Scanners with Agile Beam Steering. Journal of Atmospheric and Oceanic Technology, 2014, 31, 930-937.	0.5	21
29	Laser scanning of a recirculation zone on the Bolund escarpment. Journal of Physics: Conference Series, 2014, 555, 012066.	0.3	3
30	Retrieving wind statistics from average spectrum of continuous-wave lidar. Atmospheric Measurement Techniques, 2013, 6, 1673-1683.	1.2	31
31	A spinner-integrated wind lidar for enhanced wind turbine control. Wind Energy, 2013, 16, 625-643.	1.9	110
32	Direct measurement of the spectral transfer function of a laser based anemometer. Review of Scientific Instruments, 2012, 83, 033111.	0.6	36
33	The relationship between aerosol backscatter coefficient and atmospheric relative humidity in an urban area over Athens, Greece, using Raman lidar and radiosonde data. International Journal of Remote Sensing, 2011, 32, 8983-9006.	1.3	3