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Testing and comparison of lidars for profile and turbulence measurements in wind energy

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#	Paper	IF	Citations
44	Light detection and ranging measurements of wake dynamics part I: one-dimensional scanning. <i>Wind Energy</i> , 2010 , 13, 51-61	3.4	126
43	A Multisodar Approach to Wind Profiling. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 1165-1174	3	
42	Lidar Scanning of Momentum Flux in and above the Atmospheric Surface Layer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 959-976	2	55
41	Can Wind Lidars Measure Turbulence?. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011 , 28, 853-868	2	116
40	Wind Turbines Research at Los Alamos National Laboratory -- Integrating Experimental Aerodynamics, Sensing, Structural Mechanics and Numerical Simulations. 2011 ,		
39	Full-Scale Wind Turbine Near-Wake Measurements Using an Instrumented Uninhabited Aerial Vehicle. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011 , 133,	2.3	28
38	Seven-Sensor Fast-Response Probe for Full-Scale Wind Turbine Flowfield Measurements. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011 , 133,	1.7	15
37	The modification of wind turbine performance by statistically distinct atmospheric regimes. <i>Environmental Research Letters</i> , 2012 , 7, 034035	6.2	55
36	Lidar Turbulence Measurements for Wind Energy. <i>Springer Proceedings in Physics</i> , 2012 , 263-270	0.2	1
35	Measurement of turbulence spectra using scanning pulsed wind lidars. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		32
34	Lidar profilers in the context of wind energy-a verification procedure for traceable measurements. <i>Wind Energy</i> , 2012 , 15, 147-159	3.4	38
33	The Effect of Wind-Turbine Wakes on Summertime US Midwest Atmospheric Wind Profiles as Observed with Ground-Based Doppler Lidar. <i>Boundary-Layer Meteorology</i> , 2013 , 149, 85-103	3.4	70
32	Multi-site testing and evaluation of remote sensing instruments for wind energy applications. <i>Renewable Energy</i> , 2013 , 53, 200-210	8.1	31
31	Power curve measurement with a nacelle mounted lidar. <i>Wind Energy</i> , 2013 , n/a-n/a	3.4	18
30	Hub Height Ocean Winds over the North Sea Observed by the NORSEWIND Lidar Array: Measuring Techniques, Quality Control and Data Management. <i>Remote Sensing</i> , 2013 , 5, 4280-4303	5	32
29	Quantifying error of remote sensing observations of wind turbine wakes using computational fluid dynamics. 2014 ,		1
28	Implementation of a generalized actuator disk wind turbine model into the weather research and forecasting model for large-eddy simulation applications. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 013104	2.5	54

27	Wind turbine gust estimation using remote sensing data. 2014 ,		0
26	Inter-comparison of wind profiles in the tropical boundary layer remotely sensed from GPS radiosonde and Doppler wind lidar. <i>International Journal of Remote Sensing</i> , 2014 , 35, 3300-3315	3.1	5
25	Time evolution of monsoon low-level jet observed over an Indian tropical station during the peak monsoon period from high-resolution Doppler wind lidar measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1786-1795	4.4	20
24	Measurement Campaign of a Large Rotor Wind Turbine. <i>Energy Procedia</i> , 2015 , 80, 159-167	2.3	
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22	Addressing Spatial Variability of Surface-Layer Wind with Long-Range WindScanners. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015 , 32, 518-527	2	19
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20	Investigation of boundary-layer wind predictions during nocturnal low-level jet events using the Weather Research and Forecasting model. <i>Wind Energy</i> , 2016 , 19, 739-762	3.4	11
19	Observations of offshore wind characteristics by Doppler-LiDAR for wind energy applications. <i>Applied Energy</i> , 2016 , 169, 150-163	10.7	56
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17	Observing and Simulating Wind-Turbine Wakes During the Evening Transition. <i>Boundary-Layer Meteorology</i> , 2017 , 164, 449-474	3.4	27
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5	Study of Coastal Effects Relevant for Offshore Wind Energy Using Spaceborne Synthetic Aperture Radar (SAR). <i>Remote Sensing</i> , 2022 , 14, 1688	5	1
4	Scan strategies for wind profiling with Doppler lidar in a large-eddy simulation (LES)-based evaluation. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 2839-2856	4	0
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