Gunner Larsen

List of Publications by Year
in descending order

32 papers	2,228 citations	394286 19 h-index	414303 32 g-index
34 all docs	34 docs citations	34 times ranked	1210 citing authors

#	Article	IF	Citations
1	A Minimalistic Prediction Model to Determine Energy Production and Costs of Offshore Wind Farms. Energies, 2021, 14, 448.	1.6	14
2	Dynamic wake tracking using a cost-effective LiDAR and Kalman filtering: Design, simulation and full-scale validation. Renewable Energy, 2021, 172, 1073-1086.	4.3	10
3	Dynamic wake tracking and characteristics estimation using a cost-effective LiDAR. Journal of Physics: Conference Series, 2020, 1618, 032036.	0.3	4
4	Integrated wind farm layout and control optimization. Wind Energy Science, 2020, 5, 1551-1566.	1.2	9
5	Simplification and Validation of a Spectral-Tensor Model for Turbulence Including Atmospheric Stability. Boundary-Layer Meteorology, 2018, 167, 371-397.	1.2	22
6	Modeling Atmospheric Turbulence via Rapid Distortion Theory: Spectral Tensor of Velocity and Buoyancy. Journals of the Atmospheric Sciences, 2017, 74, 949-974.	0.6	20
7	Investigation of wake interaction using full‐scale lidar measurements and large eddy simulation. Wind Energy, 2016, 19, 1535-1551.	1.9	25
8	An experimental and numerical study of the atmospheric stability impact on wind turbine wakes. Wind Energy, 2016, 19, 1785-1805.	1.9	63
9	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
10	Wake flow characteristics at high wind speed. , 2016, , .		1
11	Two improvements to the dynamic wake meandering model: including the effects of atmospheric shear on wake turbulence and incorporating turbulence build‐up in a row of wind turbines. Wind Energy, 2015, 18, 111-132.	1.9	32
12	Engineering models for merging wakes in wind farm optimization applications. Journal of Physics: Conference Series, 2015, 625, 012037.	0.3	19
13	Wake meandering under non-neutral atmospheric stability conditions - theory and facts. Journal of Physics: Conference Series, 2015, 625, 012036.	0.3	11
14	Empirical modeling of single-wake advection and expansion using full-scale pulsed lidar-based measurements. Wind Energy, 2015, 18, 2085-2103.	1.9	38
15	Dependence of offshore wind turbine fatigue loads on atmospheric stratification. Journal of Physics: Conference Series, 2014, 524, 012165.	0.3	8
16	A Review of Methodological Approaches for the Design and Optimization of Wind Farms. Energies, 2014, 7, 6930-7016.	1.6	207
17	TOPFARM: Multi‐fidelity optimization of wind farms. Wind Energy, 2014, 17, 1797-1816.	1.9	83
18	On atmospheric stability in the dynamic wake meandering model. Wind Energy, 2014, 17, 1689-1710.	1.9	58

#	Article	IF	Citations
19	Validation of the dynamic wake meander model for loads and power production in the Egmond aan Zee wind farm. Wind Energy, 2013, 16, 605-624.	1.9	155
20	Implementation of a Mixing Length Turbulence Formulation Into the Dynamic Wake Meandering Model. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.1	22
21	Light detection and ranging measurements of wake dynamics. Part II: two‐dimensional scanning. Wind Energy, 2011, 14, 61-75.	1.9	153
22	Numerical simulations of wake interaction between two wind turbines at various inflow conditions. Wind Energy, 2011, 14, 859-876.	1.9	126
23	Light detection and ranging measurements of wake dynamics part I: one‐dimensional scanning. Wind Energy, 2010, 13, 51-61.	1.9	139
24	Wake meandering: a pragmatic approach. Wind Energy, 2008, 11, 377-395.	1.9	306
25	Simulation of inhomogeneous, non-stationary and non-Gaussian turbulent winds. Journal of Physics: Conference Series, 2007, 75, 012060.	0.3	13
26	Wake Meandering - An Analysis of Instantaneous 2D Laser Measurements. Journal of Physics: Conference Series, 2007, 75, 012059.	0.3	9
27	Comparison of methods for load simulation for wind turbines operating in wake. Journal of Physics: Conference Series, 2007, 75, 012072.	0.3	5
28	Full scale experimental analysis of extreme coherent gust with wind direction changes (EOD). Journal of Physics: Conference Series, 2007, 75, 012055.	0.3	4
29	Comparison of Wake Model Simulations with Offshore Wind Turbine Wake Profiles Measured by Sodar. Journal of Atmospheric and Oceanic Technology, 2006, 23, 888-901.	0.5	263
30	ENDOW(efficient development of offshore wind farms): modelling wake and boundary layer interactions. Wind Energy, 2004, 7, 225-245.	1.9	51
31	Offshore fatigue design turbulence. Wind Energy, 2001, 4, 107-120.	1.9	14
32	Reliability-based design of wind-turbine rotor blades against failure in ultimate loading. Engineering Structures, 2000, 22, 565-574.	2.6	112