

Gunner Larsen

List of Publications by Year in descending order

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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	Wake meandering: a pragmatic approach. <i>Wind Energy</i> , 2008, 11, 377-395.	1.9	306
2	Comparison of Wake Model Simulations with Offshore Wind Turbine Wake Profiles Measured by Sodar. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 888-901.	0.5	263
3	Wind turbine wake models developed at the technical university of Denmark: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 752-769.	8.2	229
4	A Review of Methodological Approaches for the Design and Optimization of Wind Farms. <i>Energies</i> , 2014, 7, 6930-7016.	1.6	207
5	Validation of the dynamic wake meander model for loads and power production in the Egmond aan Zee wind farm. <i>Wind Energy</i> , 2013, 16, 605-624.	1.9	155
6	Light detection and ranging measurements of wake dynamics. Part II: two-dimensional scanning. <i>Wind Energy</i> , 2011, 14, 61-75.	1.9	153
7	Light detection and ranging measurements of wake dynamics part I: one-dimensional scanning. <i>Wind Energy</i> , 2010, 13, 51-61.	1.9	139
8	Numerical simulations of wake interaction between two wind turbines at various inflow conditions. <i>Wind Energy</i> , 2011, 14, 859-876.	1.9	126
9	Reliability-based design of wind-turbine rotor blades against failure in ultimate loading. <i>Engineering Structures</i> , 2000, 22, 565-574.	2.6	112
10	TOPFARM: Multi-fidelity optimization of wind farms. <i>Wind Energy</i> , 2014, 17, 1797-1816.	1.9	83
11	An experimental and numerical study of the atmospheric stability impact on wind turbine wakes. <i>Wind Energy</i> , 2016, 19, 1785-1805.	1.9	63
12	On atmospheric stability in the dynamic wake meandering model. <i>Wind Energy</i> , 2014, 17, 1689-1710.	1.9	58
13	ENDOW(efficient development of offshore wind farms): modelling wake and boundary layer interactions. <i>Wind Energy</i> , 2004, 7, 225-245.	1.9	51
14	Empirical modeling of single-wake advection and expansion using full-scale pulsed lidar-based measurements. <i>Wind Energy</i> , 2015, 18, 2085-2103.	1.9	38
15	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. <i>Wind Energy</i> , 2015, 18, 111-132.	1.9	32
16	Investigation of wake interaction using full-scale lidar measurements and large eddy simulation. <i>Wind Energy</i> , 2016, 19, 1535-1551.	1.9	25
17	Implementation of a Mixing Length Turbulence Formulation Into the Dynamic Wake Meandering Model. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2012, 134, .	1.1	22
18	Simplification and Validation of a Spectral-Tensor Model for Turbulence Including Atmospheric Stability. <i>Boundary-Layer Meteorology</i> , 2018, 167, 371-397.	1.2	22

#	ARTICLE	IF	CITATIONS
19	Modeling Atmospheric Turbulence via Rapid Distortion Theory: Spectral Tensor of Velocity and Buoyancy. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 949-974.	0.6	20
20	Engineering models for merging wakes in wind farm optimization applications. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012037.	0.3	19
21	Offshore fatigue design turbulence. <i>Wind Energy</i> , 2001, 4, 107-120.	1.9	14
22	A Minimalistic Prediction Model to Determine Energy Production and Costs of Offshore Wind Farms. <i>Energies</i> , 2021, 14, 448.	1.6	14
23	Simulation of inhomogeneous, non-stationary and non-Gaussian turbulent winds. <i>Journal of Physics: Conference Series</i> , 2007, 75, 012060.	0.3	13
24	Wake meandering under non-neutral atmospheric stability conditions - theory and facts. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012036.	0.3	11
25	Dynamic wake tracking using a cost-effective LiDAR and Kalman filtering: Design, simulation and full-scale validation. <i>Renewable Energy</i> , 2021, 172, 1073-1086.	4.3	10
26	Wake Meandering - An Analysis of Instantaneous 2D Laser Measurements. <i>Journal of Physics: Conference Series</i> , 2007, 75, 012059.	0.3	9
27	Integrated wind farm layout and control optimization. <i>Wind Energy Science</i> , 2020, 5, 1551-1566.	1.2	9
28	Dependence of offshore wind turbine fatigue loads on atmospheric stratification. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012165.	0.3	8
29	Comparison of methods for load simulation for wind turbines operating in wake. <i>Journal of Physics: Conference Series</i> , 2007, 75, 012072.	0.3	5
30	Full scale experimental analysis of extreme coherent gust with wind direction changes (EOD). <i>Journal of Physics: Conference Series</i> , 2007, 75, 012055.	0.3	4
31	Dynamic wake tracking and characteristics estimation using a cost-effective LiDAR. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 032036.	0.3	4
32	Wake flow characteristics at high wind speed. , 2016, , .		1