

Nikolay Dimitrov

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

488
citations

687363

13
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

303
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of turbine power and local wind conditions in wind farm using an autoencoder neural network. <i>Journal of Physics: Conference Series</i> , 2022, 2265, 032069.	0.4	0
2	Virtual sensors for wind turbines with machine learning-based time series models. <i>Wind Energy</i> , 2022, 25, 1626-1645.	4.2	8
3	Validation of the dynamic wake meandering model with respect to loads and power production. <i>Wind Energy Science</i> , 2021, 6, 441-460.	3.3	3
4	Wind turbine load validation in wakes using wind field reconstruction techniques and nacelle lidar wind retrievals. <i>Wind Energy Science</i> , 2021, 6, 841-866.	3.3	15
5	Wind farm set point optimization with surrogate models for load and power output targets. <i>Journal of Physics: Conference Series</i> , 2021, 2018, 012013.	0.4	2
6	A benchmarking exercise for environmental contours. <i>Ocean Engineering</i> , 2021, 236, 109504.	4.3	26
7	Probabilistic estimation of the Dynamic Wake Meandering model parameters using SpinnerLidar-derived wake characteristics. <i>Wind Energy Science</i> , 2021, 6, 1117-1142.	3.3	9
8	Wind farm layout optimization with load constraints using surrogate modelling. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 042035.	0.4	13
9	Wind turbine wake characterization using the SpinnerLidar measurements. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 062040.	0.4	4
10	Inverse Directional Simulation: an environmental contour method providing an exact return period. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 062048.	0.4	7
11	Aeroelastic load validation in wake conditions using nacelle-mounted lidar measurements. <i>Wind Energy Science</i> , 2020, 5, 1129-1154.	3.3	13
12	Wind turbine load validation using lidar-based wind retrievals. <i>Wind Energy</i> , 2019, 22, 1512-1533.	4.2	19
13	Surrogate models for parameterized representation of wake-induced loads in wind farms. <i>Wind Energy</i> , 2019, 22, 1371-1389.	4.2	22
14	From SCADA to lifetime assessment and performance optimization: how to use models and machine learning to extract useful insights from limited data. <i>Journal of Physics: Conference Series</i> , 2019, 1222, 012032.	0.4	5
15	Extreme wind fluctuations: joint statistics, extreme turbulence, and impact on wind turbine loads. <i>Wind Energy Science</i> , 2019, 4, 325-342.	3.3	22
16	Impact of turbulence induced loads and wave kinematic models on fatigue reliability estimates of offshore wind turbine monopiles. <i>Ocean Engineering</i> , 2018, 155, 295-309.	4.3	15
17	Uncertainty propagation through an aeroelastic wind turbine model using polynomial surrogates. <i>Renewable Energy</i> , 2018, 119, 910-922.	8.9	61
18	From wind to loads: wind turbine site-specific load estimation with surrogate models trained on high-fidelity load databases. <i>Wind Energy Science</i> , 2018, 3, 767-790.	3.3	66

#	ARTICLE	IF	CITATIONS
19	Application of simulated lidar scanning patterns to constrained Gaussian turbulence fields for load validation. <i>Wind Energy</i> , 2017, 20, 79-95.	4.2	23
20	Effects of normal and extreme turbulence spectral parameters on wind turbine loads. <i>Renewable Energy</i> , 2017, 101, 1180-1193.	8.9	41
21	Turbulence characterization from a forward-looking nacelle lidar. <i>Wind Energy Science</i> , 2017, 2, 133-152.	3.3	34
22	Mapping Wind Farm Loads and Power Production - A Case Study on Horns Rev 1. <i>Journal of Physics: Conference Series</i> , 2016, 753, 032010.	0.4	17
23	Model of wind shear conditional on turbulence and its impact on wind turbine loads. <i>Wind Energy</i> , 2015, 18, 1917-1931.	4.2	48
24	Reliability Analysis of a Composite Wind Turbine Blade Section Using the Model Correction Factor Method: Numerical Study and Validation. <i>Applied Composite Materials</i> , 2013, 20, 17-39.	2.5	14