SÃ¸ren Juhl Andersen

List of Publications by Year
in descending order

34 papers	656 citations	623188 14 h-index	580395 25 g-index
49 all docs	49 docs citations	49 times ranked	541 citing authors

#	Article	IF	Citations
1	Simulation of wind turbine wakes using the actuator line technique. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140071.	1.6	119
2	Power curve and wake analyses of the Vestas multi-rotor demonstrator. Wind Energy Science, 2019, 4, 251-271.	1.2	52
3	Multimodel validation of single wakes in neutral and stratified atmospheric conditions. Wind Energy, 2020, 23, 2027-2055.	1.9	46
4	Validation of four LES and a vortex model against stereo-PIV measurements in the near wake of an actuator disc and a wind turbine. Renewable Energy, 2016, 94, 510-523.	4.3	44
5	Simulation of the inherent turbulence and wake interaction inside an infinitely long row of wind turbines. Journal of Turbulence, 2013, 14, 1-24.	0.5	36
6	Turbulence and entrainment length scales in large wind farms. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160107.	1.6	35
7	Effects of wind turbine wake on atmospheric sound propagation. Applied Acoustics, 2017, 122, 51-61.	1.7	32
8	Wind Farm Wake: The 2016 Horns Rev Photo Case. Energies, 2017, 10, 317.	1.6	32
9	Optimizing wind farm control through wake steering using surrogate models based on high-fidelity simulations. Wind Energy Science, 2020, 5, 309-329.	1.2	27
10	DeRisk â€" Accurate Prediction of ULS Wave Loads. Outlook and First Results. Energy Procedia, 2016, 94, 379-387.	1.8	24
11	Comparison of Engineering Wake Models with CFD Simulations. Journal of Physics: Conference Series, 2014, 524, 012161.	0.3	23
12	Analytical model for the powerâ€"yaw sensitivity of wind turbines operating in full wake. Wind Energy Science, 2020, 5, 427-437.	1.2	23
13	Quantifying variability of Large Eddy Simulations of very large wind farms. Journal of Physics: Conference Series, 2015, 625, 012027.	0.3	17
14	How does turbulence change approaching a rotor?. Wind Energy Science, 2018, 3, 293-300.	1.2	17
15	The turbulence scales of a wind turbine wake: A revisit of extended k-epsilon models. Journal of Physics: Conference Series, 2018, 1037, 072001.	0.3	15
16	Brief communication: Wind-speed-independent actuator disk control for faster annual energy production calculations of wind farms using computational fluid dynamics. Wind Energy Science, 2019, 4, 645-651.	1.2	12
17	Global trends in the performance of large wind farms based on high-fidelity simulations. Wind Energy Science, 2020, 5, 1689-1703.	1.2	12
18	Reduced order model of the inherent turbulence of wind turbine wakes inside an infinitely long row of turbines. Journal of Physics: Conference Series, 2014, 555, 012005.	0.3	11

#	ARTICLE	IF	CITATIONS
19	Simulation of the flow past a circular cylinder using an unsteady panel method. Applied Mathematical Modelling, 2017, 44, 206-222.	2.2	11
20	Sensitivity and Uncertainty of the FLORIS Model Applied on the Lillgrund Wind Farm. Energies, 2021, 14, 1293.	1.6	10
21	Wind Turbine Noise Propagation Modelling: An Unsteady Approach. Journal of Physics: Conference Series, 2016, 753, 022003.	0.3	8
22	Investigating Coherent Structures in the Standard Turbulence Models using Proper Orthogonal Decomposition. Journal of Physics: Conference Series, 2016, 753, 032040.	0.3	5
23	Performance and Equivalent Loads of Wind Turbines in Large Wind Farms. Journal of Physics: Conference Series, 2017, 854, 012001.	0.3	5
24	Launch of the FarmConners Wind Farm Control benchmark for code comparison. Journal of Physics: Conference Series, 2020, 1618, 022040.	0.3	5
25	Validation of analytical body force model for actuator disc computations. Journal of Physics: Conference Series, 2020, 1618, 052051.	0.3	5
26	Validation of Aeroelastic Actuator Line for Wind Turbine Modelling in Complex Flows. Frontiers in Energy Research, 0, 10, .	1.2	5
27	Statistics of LES Simulations of Large Wind Farms. Journal of Physics: Conference Series, 2016, 753, 032002.	0.3	4
28	LES verification of HAWC2Farm aeroelastic wind farm simulations with wake steering and load analysis. Journal of Physics: Conference Series, 2022, 2265, 022069.	0.3	4
29	Probabilistic surrogates for flow control using combined control strategies. Journal of Physics: Conference Series, 2022, 2265, 032110.	0.3	3
30	Comparison between PIV measurements and computations of the near-wake of an actuator disc. Journal of Physics: Conference Series, 2014, 524, 012173.	0.3	2
31	Instantaneous Response and Mutual Interaction between Wind Turbine and Flow. Journal of Physics: Conference Series, 2018, 1037, 072011.	0.3	2
32	Statistical impact of wind-speed ramp events on turbines, via observations and coupled fluid-dynamic and aeroelastic simulations. Wind Energy Science, 2021, 6, 1227-1245.	1.2	2
33	Free-flow wind speed from aÂblade-mounted flow sensor. Wind Energy Science, 2018, 3, 121-138.	1.2	1
34	Simulations of the flow past a cylinder using an unsteady double wake model. AIP Conference Proceedings, 2016, , .	0.3	0