

Corey D Markfort

List of Publications by Year in descending order

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76
papers

6,703
citations

109321

35
h-index

79698

73
g-index

81
all docs

81
docs citations

81
times ranked

2478
citing authors

#	ARTICLE	IF	CITATIONS
1	A new analytical model for wind-turbine wakes. <i>Renewable Energy</i> , 2014, 70, 116-123.	8.9	618
2	Wind-Turbine and Wind-Farm Flows: A Review. <i>Boundary-Layer Meteorology</i> , 2020, 174, 1-59.	2.3	458
3	Large-Eddy Simulation of Wind-Turbine Wakes: Evaluation of Turbine Parametrisations. <i>Boundary-Layer Meteorology</i> , 2011, 138, 345-366.	2.3	448
4	A Wind-Tunnel Investigation of Wind-Turbine Wakes: Boundary-Layer Turbulence Effects. <i>Boundary-Layer Meteorology</i> , 2009, 132, 129-149.	2.3	393
5	Large-eddy simulation of atmospheric boundary layer flow through wind turbines and wind farms. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011, 99, 154-168.	3.9	389
6	Experimental and theoretical study of wind turbine wakes in yawed conditions. <i>Journal of Fluid Mechanics</i> , 2016, 806, 506-541.	3.4	385
7	Influence of atmospheric stability on wind-turbine wakes: A large-eddy simulation study. <i>Physics of Fluids</i> , 2015, 27, .	4.0	268
8	Atmospheric Turbulence Effects on Wind-Turbine Wakes: An LES Study. <i>Energies</i> , 2012, 5, 5340-5362.	3.1	248
9	Large-eddy simulation of a very large wind farm in a stable atmospheric boundary layer. <i>Physics of Fluids</i> , 2011, 23, .	4.0	241
10	A Numerical Study of the Effects of Wind Direction on Turbine Wakes and Power Losses in a Large Wind Farm. <i>Energies</i> , 2013, 6, 5297-5313.	3.1	227
11	Effects of Thermal Stability and Incoming Boundary-Layer Flow Characteristics on Wind-Turbine Wakes: A Wind-Tunnel Study. <i>Boundary-Layer Meteorology</i> , 2010, 136, 515-533.	2.3	223
12	Analytical Modeling of Wind Farms: A New Approach for Power Prediction. <i>Energies</i> , 2016, 9, 741.	3.1	178
13	Simulation of Turbulent Flow Inside and Above Wind Farms: Model Validation and Layout Effects. <i>Boundary-Layer Meteorology</i> , 2013, 146, 181-205.	2.3	168
14	Near-wake flow structure downwind of a wind turbine in a turbulent boundary layer. <i>Experiments in Fluids</i> , 2012, 52, 1219-1235.	2.4	165
15	Turbulent Flow Inside and Above a Wind Farm: A Wind-Tunnel Study. <i>Energies</i> , 2011, 4, 1916-1936.	3.1	142
16	Field Measurements of Wind Turbine Wakes with Lidars. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 274-287.	1.3	133
17	Wind-Turbine Wakes in a Convective Boundary Layer: A Wind-Tunnel Study. <i>Boundary-Layer Meteorology</i> , 2013, 146, 161-179.	2.3	108
18	Simulating 2368 temperate lakes reveals weak coherence in stratification phenology. <i>Ecological Modelling</i> , 2014, 291, 142-150.	2.5	101

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19	The Effect of Free-Atmosphere Stratification on Boundary-Layer Flow and Power Output from Very Large Wind Farms. <i>Energies</i> , 2013, 6, 2338-2361.	3.1	97
20	Wind sheltering of a lake by a tree canopy or bluff topography. <i>Water Resources Research</i> , 2010, 46, .	4.2	95
21	Volumetric Lidar Scanning of Wind Turbine Wakes under Convective and Neutral Atmospheric Stability Regimes. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 2035-2048.	1.3	94
22	Wind farm power optimization via yaw angle control: A wind tunnel study. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	91
23	Wake flow in a wind farm during a diurnal cycle. <i>Journal of Turbulence</i> , 2016, 17, 420-441.	1.4	84
24	Analysis of control-oriented wake modeling tools using lidar field results. <i>Wind Energy Science</i> , 2018, 3, 819-831.	3.3	76
25	Wind Turbine Wake Characterization with Nacelle-Mounted Wind Lidars for Analytical Wake Model Validation. <i>Remote Sensing</i> , 2018, 10, 668.	4.0	75
26	A new analytical model for wind farm power prediction. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012039.	0.4	66
27	A new wake model and comparison of eight algorithms for layout optimization of wind farms in complex terrain. <i>Applied Energy</i> , 2020, 259, 114189.	10.1	65
28	A momentum-conserving wake superposition method for wind farm power prediction. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	3.4	65
29	Flow Adjustment Inside and Around Large Finite-Size Wind Farms. <i>Energies</i> , 2017, 10, 2164.	3.1	63
30	A New Miniature Wind Turbine for Wind Tunnel Experiments. Part I: Design and Performance. <i>Energies</i> , 2017, 10, 908.	3.1	57
31	An Analytical Model for the Effect of Vertical Wind Veer on Wind Turbine Wakes. <i>Energies</i> , 2018, 11, 1838.	3.1	55
32	Realistic Wind Farm Layout Optimization through Genetic Algorithms Using a Gaussian Wake Model. <i>Energies</i> , 2018, 11, 3268.	3.1	52
33	Turbulent flow and scalar transport through and over aligned and staggered wind farms. <i>Journal of Turbulence</i> , 2012, 13, N33.	1.4	48
34	Velocity and Surface Shear Stress Distributions Behind a Rough-to-Smooth Surface Transition: A Simple New Model. <i>Boundary-Layer Meteorology</i> , 2009, 130, 29-41.	2.3	43
35	Experimental investigation and analytical modelling of active yaw control for wind farm power optimization. <i>Renewable Energy</i> , 2021, 170, 1228-1244.	8.9	38
36	Influence of the Coriolis force on the structure and evolution of wind turbine wakes. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	37

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37	Evening methane emission pulses from a boreal wetland correspond to convective mixing in hollows. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 994-1005.	3.0	35
38	A New Miniature Wind Turbine for Wind Tunnel Experiments. Part II: Wake Structure and Flow Dynamics. <i>Energies</i> , 2017, 10, 923.	3.1	34
39	A wind-tunnel investigation of wind-turbine wakes in yawed conditions. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012014.	0.4	33
40	On the Impact of Wind Farms on a Convective Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2015, 157, 81-96.	2.3	32
41	Large-Eddy Simulation of Yawed Wind-Turbine Wakes: Comparisons with Wind Tunnel Measurements and Analytical Wake Models. <i>Energies</i> , 2019, 12, 4574.	3.1	31
42	Effects of flow depth variations on the wake recovery behind a horizontal-axis hydrokinetic in-stream turbine. <i>Renewable Energy</i> , 2018, 125, 620-629.	8.9	30
43	Experimental study of the impact of large-scale wind farms on land-atmosphere exchanges. <i>Environmental Research Letters</i> , 2013, 8, 015002.	5.2	28
44	A model for the effect of pressure gradient on turbulent axisymmetric wakes. <i>Journal of Fluid Mechanics</i> , 2018, 837, .	3.4	27
45	Dissolved Oxygen Measurements in Aquatic Environments: The Effects of Changing Temperature and Pressure on Three Sensor Technologies. <i>Journal of Environmental Quality</i> , 2009, 38, 1766-1774.	2.0	26
46	A point vortex transportation model for yawed wind turbine wakes. <i>Journal of Fluid Mechanics</i> , 2020, 890, .	3.4	26
47	Subfilter-scale Fluxes over a Surface Roughness Transition. Part I: Measured Fluxes and Energy Transfer Rates. <i>Boundary-Layer Meteorology</i> , 2007, 126, 157-179.	2.3	24
48	A Simple Physically-Based Model for Wind-Turbine Wake Growth in a Turbulent Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2018, 169, 1-10.	2.3	24
49	The effect of atmospheric stability on wind-turbine wakes: A large-eddy simulation study. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012138.	0.4	23
50	Canopy-wake dynamics and wind sheltering effects on Earth surface fluxes. <i>Environmental Fluid Mechanics</i> , 2014, 14, 663-697.	1.6	21
51	Modified Power Curves for Prediction of Power Output of Wind Farms. <i>Energies</i> , 2019, 12, 1805.	3.1	18
52	Characterization of Wind Turbine Wakes with Nacelle-Mounted Doppler LiDARs and Model Validation in the Presence of Wind Veer. <i>Remote Sensing</i> , 2019, 11, 2247.	4.0	18
53	Lidar measurements of yawed-wind-turbine wakes: characterization and validation of analytical models. <i>Wind Energy Science</i> , 2020, 5, 1253-1272.	3.3	17
54	Wind turbine wakes on escarpments: A wind-tunnel study. <i>Renewable Energy</i> , 2022, 181, 1258-1275.	8.9	16

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55	Using a Virtual Lidar Approach to Assess the Accuracy of the Volumetric Reconstruction of a Wind Turbine Wake. <i>Remote Sensing</i> , 2018, 10, 721.	4.0	12
56	Volumetric scans of wind turbine wakes performed with three simultaneous wind LiDARs under different atmospheric stability regimes. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012164.	0.4	11
57	Large-eddy simulation of the diurnal variation of wake flows in a finite-size wind farm. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012031.	0.4	11
58	Turbulent planar wakes under pressure gradient conditions. <i>Journal of Fluid Mechanics</i> , 2017, 830, .	3.4	11
59	A Calibration Procedure for an Analytical Wake Model Using Wind Farm Operational Data. <i>Energies</i> , 2020, 13, 3537.	3.1	11
60	Field measurements of wake meandering at a utility-scale wind turbine with nacelle-mounted Doppler lidars. <i>Wind Energy Science</i> , 2022, 7, 185-199.	3.3	11
61	A physics-based model for wind turbine wake expansion in the atmospheric boundary layer. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	3.4	11
62	Variability of wind turbine noise over a diurnal cycle. <i>Renewable Energy</i> , 2018, 126, 791-800.	8.9	10
63	Wind Farm Area Shape Optimization Using Newly Developed Multi-Objective Evolutionary Algorithms. <i>Energies</i> , 2021, 14, 4185.	3.1	10
64	Analytical Model for Mean Flow and Fluxes of Momentum and Energy in Very Large Wind Farms. <i>Boundary-Layer Meteorology</i> , 2018, 166, 31-49.	2.3	8
65	Improving the spatial and temporal monitoring of cyanotoxins in Iowa lakes using a multiscale and multi-modal monitoring approach. <i>Science of the Total Environment</i> , 2021, 760, 143327.	8.0	8
66	Examining the utility of satellite-based wind sheltering estimates for lake hydrodynamic modeling. <i>Remote Sensing of Environment</i> , 2015, 156, 551-560.	11.0	6
67	Instability of wind turbine wakes immersed in the atmospheric boundary layer. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012034.	0.4	5
68	An Induction Curve Model for Prediction of Power Output of Wind Turbines in Complex Conditions. <i>Energies</i> , 2020, 13, 891.	3.1	5
69	Experimental investigation of aerodynamic characteristics of bat carcasses after collision with a wind turbine. <i>Wind Energy Science</i> , 2020, 5, 745-758.	3.3	5
70	Multi-rotor Wind Farm Layout Optimization. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 032014.	0.4	4
71	Identification of damage parameters during flood events applicable to multi-span bridges. <i>Journal of Civil Structural Health Monitoring</i> , 2020, 10, 973-985.	3.9	3
72	Three-dimensional wind-turbine wake characterization via tomographic particle-image velocimetry. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 062045.	0.4	2

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73	Development and testing of a three-dimensional ballistics model for bat strikes on wind turbines. <i>Wind Energy</i> , 0, , .	4.2	1
74	Wind Turbine Wakes in Directionally Varying Wind Shears. <i>Springer Proceedings in Physics</i> , 2019, , 311-316.	0.2	1
75	Turbulent Flow and Heat Transport over a Two-dimensional Steep Hill: Wind-tunnel Experiments. , 2015, , .		0
76	A Monte-Carlo based 3-D ballistics model for guiding bat carcass surveys using environmental and turbine operational data. <i>Ecological Modelling</i> , 2022, 470, 110029.	2.5	0