

Corey D Markfort

List of Publications by Year in descending order

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76
papers

6,703
citations

109264

35
h-index

79644

73
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81
all docs

81
docs citations

81
times ranked

2478
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Wind turbine wakes on escarpments: A wind-tunnel study. <i>Renewable Energy</i> , 2022, 181, 1258-1275. | 4.3 | 16 |
| 2 | 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. | 1.2 | 11 |
| 3 | 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. | 1.2 | 0 |
| 4 | A physics-based model for wind turbine wake expansion in the atmospheric boundary layer. <i>Journal of Fluid Mechanics</i> , 2022, 943, . | 1.4 | 11 |
| 5 | 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. | 3.9 | 8 |
| 6 | Experimental investigation and analytical modelling of active yaw control for wind farm power optimization. <i>Renewable Energy</i> , 2021, 170, 1228-1244. | 4.3 | 38 |
| 7 | Wind Farm Area Shape Optimization Using Newly Developed Multi-Objective Evolutionary Algorithms. <i>Energies</i> , 2021, 14, 4185. | 1.6 | 10 |
| 8 | Wind-Turbine and Wind-Farm Flows: A Review. <i>Boundary-Layer Meteorology</i> , 2020, 174, 1-59. | 1.2 | 458 |
| 9 | 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. | 5.1 | 65 |
| 10 | Three-dimensional wind-turbine wake characterization via tomographic particle-image velocimetry. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 062045. | 0.3 | 2 |
| 11 | Multi-rotor Wind Farm Layout Optimization. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 032014. | 0.3 | 4 |
| 12 | A Calibration Procedure for an Analytical Wake Model Using Wind Farm Operational Data. <i>Energies</i> , 2020, 13, 3537. | 1.6 | 11 |
| 13 | Identification of damage parameters during flood events applicable to multi-span bridges. <i>Journal of Civil Structural Health Monitoring</i> , 2020, 10, 973-985. | 2.0 | 3 |
| 14 | A point vortex transportation model for yawed wind turbine wakes. <i>Journal of Fluid Mechanics</i> , 2020, 890, . | 1.4 | 26 |
| 15 | A momentum-conserving wake superposition method for wind farm power prediction. <i>Journal of Fluid Mechanics</i> , 2020, 889, . | 1.4 | 65 |
| 16 | An Induction Curve Model for Prediction of Power Output of Wind Turbines in Complex Conditions. <i>Energies</i> , 2020, 13, 891. | 1.6 | 5 |
| 17 | Lidar measurements of yawed-wind-turbine wakes: characterization and validation of analytical models. <i>Wind Energy Science</i> , 2020, 5, 1253-1272. | 1.2 | 17 |
| 18 | Experimental investigation of aerodynamic characteristics of bat carcasses after collision with a wind turbine. <i>Wind Energy Science</i> , 2020, 5, 745-758. | 1.2 | 5 |

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|----|---|-----|-----------|
| 19 | Modified Power Curves for Prediction of Power Output of Wind Farms. <i>Energies</i> , 2019, 12, 1805. | 1.6 | 18 |
| 20 | Wind farm power optimization via yaw angle control: A wind tunnel study. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, . | 0.8 | 91 |
| 21 | 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. | 1.8 | 18 |
| 22 | Large-Eddy Simulation of Yawed Wind-Turbine Wakes: Comparisons with Wind Tunnel Measurements and Analytical Wake Models. <i>Energies</i> , 2019, 12, 4574. | 1.6 | 31 |
| 23 | Wind Turbine Wakes in Directionally Varying Wind Shears. <i>Springer Proceedings in Physics</i> , 2019, , 311-316. | 0.1 | 1 |
| 24 | Variability of wind turbine noise over a diurnal cycle. <i>Renewable Energy</i> , 2018, 126, 791-800. | 4.3 | 10 |
| 25 | A model for the effect of pressure gradient on turbulent axisymmetric wakes. <i>Journal of Fluid Mechanics</i> , 2018, 837, . | 1.4 | 27 |
| 26 | 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. | 4.3 | 30 |
| 27 | 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. | 1.2 | 8 |
| 28 | Realistic Wind Farm Layout Optimization through Genetic Algorithms Using a Gaussian Wake Model. <i>Energies</i> , 2018, 11, 3268. | 1.6 | 52 |
| 29 | An Analytical Model for the Effect of Vertical Wind Veer on Wind Turbine Wakes. <i>Energies</i> , 2018, 11, 1838. | 1.6 | 55 |
| 30 | Wind Turbine Wake Characterization with Nacelle-Mounted Wind Lidars for Analytical Wake Model Validation. <i>Remote Sensing</i> , 2018, 10, 668. | 1.8 | 75 |
| 31 | 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. | 1.8 | 12 |
| 32 | A Simple Physically-Based Model for Wind-Turbine Wake Growth in a Turbulent Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2018, 169, 1-10. | 1.2 | 24 |
| 33 | Analysis of control-oriented wake modeling tools using lidar field results. <i>Wind Energy Science</i> , 2018, 3, 819-831. | 1.2 | 76 |
| 34 | Turbulent planar wakes under pressure gradient conditions. <i>Journal of Fluid Mechanics</i> , 2017, 830, . | 1.4 | 11 |
| 35 | A New Miniature Wind Turbine for Wind Tunnel Experiments. Part I: Design and Performance. <i>Energies</i> , 2017, 10, 908. | 1.6 | 57 |
| 36 | A New Miniature Wind Turbine for Wind Tunnel Experiments. Part II: Wake Structure and Flow Dynamics. <i>Energies</i> , 2017, 10, 923. | 1.6 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Flow Adjustment Inside and Around Large Finite-Size Wind Farms. <i>Energies</i> , 2017, 10, 2164. | 1.6 | 63 |
| 38 | Analytical Modeling of Wind Farms: A New Approach for Power Prediction. <i>Energies</i> , 2016, 9, 741. | 1.6 | 178 |
| 39 | Experimental and theoretical study of wind turbine wakes in yawed conditions. <i>Journal of Fluid Mechanics</i> , 2016, 806, 506-541. | 1.4 | 385 |
| 40 | Wake flow in a wind farm during a diurnal cycle. <i>Journal of Turbulence</i> , 2016, 17, 420-441. | 0.5 | 84 |
| 41 | Influence of the Coriolis force on the structure and evolution of wind turbine wakes. <i>Physical Review Fluids</i> , 2016, 1, . | 1.0 | 37 |
| 42 | A wind-tunnel investigation of wind-turbine wakes in yawed conditions. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012014. | 0.3 | 33 |
| 43 | Instability of wind turbine wakes immersed in the atmospheric boundary layer. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012034. | 0.3 | 5 |
| 44 | A new analytical model for wind farm power prediction. <i>Journal of Physics: Conference Series</i> , 2015, 625, 012039. | 0.3 | 66 |
| 45 | 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. | 0.3 | 11 |
| 46 | Influence of atmospheric stability on wind-turbine wakes: A large-eddy simulation study. <i>Physics of Fluids</i> , 2015, 27, . | 1.6 | 268 |
| 47 | Turbulent Flow and Heat Transport over a Two-dimensional Steep Hill: Wind-tunnel Experiments. , 2015, , . | | 0 |
| 48 | On the Impact of Wind Farms on a Convective Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2015, 157, 81-96. | 1.2 | 32 |
| 49 | Examining the utility of satellite-based wind sheltering estimates for lake hydrodynamic modeling. <i>Remote Sensing of Environment</i> , 2015, 156, 551-560. | 4.6 | 6 |
| 50 | 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. | 0.5 | 94 |
| 51 | Simulating 2368 temperate lakes reveals weak coherence in stratification phenology. <i>Ecological Modelling</i> , 2014, 291, 142-150. | 1.2 | 101 |
| 52 | Canopy-wake dynamics and wind sheltering effects on Earth surface fluxes. <i>Environmental Fluid Mechanics</i> , 2014, 14, 663-697. | 0.7 | 21 |
| 53 | A new analytical model for wind-turbine wakes. <i>Renewable Energy</i> , 2014, 70, 116-123. | 4.3 | 618 |
| 54 | 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. | 0.3 | 11 |

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|----|--|-----|-----------|
| 55 | The effect of atmospheric stability on wind-turbine wakes: A large-eddy simulation study. <i>Journal of Physics: Conference Series</i> , 2014, 524, 012138. | 0.3 | 23 |
| 56 | 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. | 1.3 | 35 |
| 57 | Wind-Turbine Wakes in a Convective Boundary Layer: A Wind-Tunnel Study. <i>Boundary-Layer Meteorology</i> , 2013, 146, 161-179. | 1.2 | 108 |
| 58 | Simulation of Turbulent Flow Inside and Above Wind Farms: Model Validation and Layout Effects. <i>Boundary-Layer Meteorology</i> , 2013, 146, 181-205. | 1.2 | 168 |
| 59 | Field Measurements of Wind Turbine Wakes with Lidars. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 274-287. | 0.5 | 133 |
| 60 | 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. | 1.6 | 97 |
| 61 | 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. | 1.6 | 227 |
| 62 | Experimental study of the impact of large-scale wind farms on land-atmosphere exchanges. <i>Environmental Research Letters</i> , 2013, 8, 015002. | 2.2 | 28 |
| 63 | Atmospheric Turbulence Effects on Wind-Turbine Wakes: An LES Study. <i>Energies</i> , 2012, 5, 5340-5362. | 1.6 | 248 |
| 64 | Turbulent flow and scalar transport through and over aligned and staggered wind farms. <i>Journal of Turbulence</i> , 2012, 13, N33. | 0.5 | 48 |
| 65 | Near-wake flow structure downwind of a wind turbine in a turbulent boundary layer. <i>Experiments in Fluids</i> , 2012, 52, 1219-1235. | 1.1 | 165 |
| 66 | Large-Eddy Simulation of Wind-Turbine Wakes: Evaluation of Turbine Parametrisations. <i>Boundary-Layer Meteorology</i> , 2011, 138, 345-366. | 1.2 | 448 |
| 67 | 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. | 1.7 | 389 |
| 68 | Large-eddy simulation of a very large wind farm in a stable atmospheric boundary layer. <i>Physics of Fluids</i> , 2011, 23, . | 1.6 | 241 |
| 69 | Turbulent Flow Inside and Above a Wind Farm: A Wind-Tunnel Study. <i>Energies</i> , 2011, 4, 1916-1936. | 1.6 | 142 |
| 70 | 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. | 1.2 | 223 |
| 71 | Wind sheltering of a lake by a tree canopy or bluff topography. <i>Water Resources Research</i> , 2010, 46, . | 1.7 | 95 |
| 72 | 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. | 1.2 | 43 |

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|----|--|-----|-----------|
| 73 | A Wind-Tunnel Investigation of Wind-Turbine Wakes: Boundary-Layer Turbulence Effects. <i>Boundary-Layer Meteorology</i> , 2009, 132, 129-149. | 1.2 | 393 |
| 74 | 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. | 1.0 | 26 |
| 75 | 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. | 1.2 | 24 |
| 76 | Development and testing of a three-dimensional ballistics model for bat strikes on wind turbines. <i>Wind Energy</i> , 0, , . | 1.9 | 1 |