

# Christopher Jung

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,056  
citations

331259

21  
h-index

433756

31  
g-index

40  
all docs

40  
docs citations

40  
times ranked

706  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the influence of wind speed model resolution on the global technical wind energy potential. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 156, 112001.	8.2	27
2	A review of recent studies on wind resource projections under climate change. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 165, 112596.	8.2	17
3	Development of onshore wind turbine fleet counteracts climate change-induced reduction in global capacity factor. <i>Nature Energy</i> , 2022, 7, 608-619.	19.8	24
4	Sounding out the repowering potential of wind energy – A scenario-based assessment from Germany. <i>Journal of Cleaner Production</i> , 2021, 293, 126094.	4.6	20
5	On the spatiotemporal complementarity of the European onshore wind resource. <i>Energy Conversion and Management</i> , 2021, 237, 114098.	4.4	8
6	Modeling wind turbine-related greenhouse gas payback times in Europe at high spatial resolution. <i>Energy Conversion and Management</i> , 2021, 243, 114334.	4.4	4
7	A global wind farm potential index to increase energy yields and accessibility. <i>Energy</i> , 2021, 231, 120923.	4.5	10
8	Does the winter storm-related wind gust intensity in Germany increase under warming climate? – A high-resolution assessment. <i>Weather and Climate Extremes</i> , 2021, 33, 100360.	1.6	4
9	Greenhouse Gas Savings Potential under Repowering of Onshore Wind Turbines and Climate Change: A Case Study from Germany. <i>Wind</i> , 2021, 1, 1-19.	0.6	3
10	Distance to power grids and consideration criteria reduce global wind energy potential the most. <i>Journal of Cleaner Production</i> , 2021, 317, 128472.	4.6	17
11	Getting more with less? Why repowering onshore wind farms does not always lead to more wind power generation – A German case study. <i>Renewable Energy</i> , 2021, 180, 245-257.	4.3	10
12	The role of the power law exponent in wind energy assessment: A global analysis. <i>International Journal of Energy Research</i> , 2021, 45, 8484-8496.	2.2	31
13	Introducing a new approach for wind energy potential assessment under climate change at the wind turbine scale. <i>Energy Conversion and Management</i> , 2020, 225, 113425.	4.4	28
14	The annual cycle and intra-annual variability of the global wind power distribution estimated by the system of wind speed distributions. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100852.	1.7	10
15	On the spatiotemporal variability and potential of complementarity of wind and solar resources. <i>Energy Conversion and Management</i> , 2020, 218, 113016.	4.4	49
16	Integration of small-scale surface properties in a new high resolution global wind speed model. <i>Energy Conversion and Management</i> , 2020, 210, 112733.	4.4	24
17	Changing wind speed distributions under future global climate. <i>Energy Conversion and Management</i> , 2019, 198, 111841.	4.4	37
18	Historical Winter Storm Atlas for Germany (GeWiSA). <i>Atmosphere</i> , 2019, 10, 387.	1.0	17

#	ARTICLE	IF	CITATIONS
19	Wind speed distribution selection – A review of recent development and progress. Renewable and Sustainable Energy Reviews, 2019, 114, 109290.	8.2	85
20	Improving empirical storm damage models by coupling with high-resolution gust speed data. Agricultural and Forest Meteorology, 2019, 268, 23-31.	1.9	15
21	The temporal variability of global wind energy – Long-term trends and inter-annual variability. Energy Conversion and Management, 2019, 188, 462-472.	4.4	50
22	Precipitation Atlas for Germany (GePrA). Atmosphere, 2019, 10, 737.	1.0	2
23	The role of air density in wind energy assessment – A case study from Germany. Energy, 2019, 171, 385-392.	4.5	50
24	3D statistical mapping of Germany’s wind resource using WSWS. Energy Conversion and Management, 2018, 159, 96-108.	4.4	25
25	National and global wind resource assessment under six wind turbine installation scenarios. Energy Conversion and Management, 2018, 156, 403-415.	4.4	53
26	Fossil fuel reduction potential in Germany's transport sector by wind-to-hydrogen. International Journal of Hydrogen Energy, 2018, 43, 23161-23167.	3.8	22
27	Sensitivity analysis of the system of wind speed distributions. Energy Conversion and Management, 2018, 177, 376-384.	4.4	25
28	On the inter-annual variability of wind energy generation – A case study from Germany. Applied Energy, 2018, 230, 845-854.	5.1	33
29	Copula-based estimation of directional wind energy yield: A case study from Germany. Energy Conversion and Management, 2018, 169, 359-370.	4.4	24
30	Achieving Germany’s wind energy expansion target with an improved wind turbine siting approach. Energy Conversion and Management, 2018, 173, 383-398.	4.4	29
31	Introducing a system of wind speed distributions for modeling properties of wind speed regimes around the world. Energy Conversion and Management, 2017, 144, 181-192.	4.4	58
32	Global comparison of the goodness-of-fit of wind speed distributions. Energy Conversion and Management, 2017, 133, 216-234.	4.4	89
33	Development of a statistical bivariate wind speed-wind shear model (WSWS) to quantify the height-dependent wind resource. Energy Conversion and Management, 2017, 149, 303-317.	4.4	34
34	On the Annual Cycle of Meteorological and Geographical Potential of Wind Energy: A Case Study from Southwest Germany. Sustainability, 2017, 9, 1169.	1.6	17
35	Global Gust Climate Evaluation and Its Influence on Wind Turbines. Energies, 2017, 10, 1474.	1.6	18
36	High Spatial Resolution Simulation of Annual Wind Energy Yield Using Near-Surface Wind Speed Time Series. Energies, 2016, 9, 344.	1.6	24

#	ARTICLE	IF	CITATIONS
37	The Role of Highly-Resolved Gust Speed in Simulations of Storm Damage in Forests at the Landscape Scale: A Case Study from Southwest Germany. Atmosphere, 2016, 7, 7.	1.0	17
38	Using highly resolved maximum gust speed as predictor for forest storm damage caused by the high-impact winter storm Lothar in Southwest Germany. Atmospheric Science Letters, 2016, 17, 462-469.	0.8	23
39	Modelling monthly near-surface maximum daily gust speed distributions in Southwest Germany. International Journal of Climatology, 2016, 36, 4058-4070.	1.5	21
40	Highly resolved modeling of extreme wind speed in North America and Europe. Atmospheric Science Letters, 0, , .	0.8	2