Javier Sanz Rodrigo

List of Publications by Year
in descending order

29	1,263	516561 16	501076 28
papers	citations	h-index	g-index

42	42	42	1464
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grand challenges in the science of wind energy. Science, 2019, 366, .	6.0	482
2	The Making of the New European Wind Atlas â€“ Part 2: Production and evaluation. Geoscientific Model Development, 2020, 13, 5079-5102.	1.3	86
3	Complex terrain experiments in the New European Wind Atlas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160101.	1.6	82
4	Modeling drifting snow in Antarctica with a regional climate model: 1. Methods and model evaluation. Journal of Geophysical Research, 2012, 117, .	3.3	81
5	An experimental and numerical study of the atmospheric stability impact on wind turbine wakes. Wind Energy, 2016, 19, 1785-1805.	1.9	63
6	Mesoscale to microscale wind farm flow modeling and evaluation. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e214.	1.9	58
7	Sensitivity Analysis of the WRF Model: Wind-Resource Assessment for Complex Terrain. Journal of Applied Meteorology and Climatology, 2018, 57, 733-753.	0.6	58
8	Evaluation of the antarctic surface wind climate from ERA reanalyses and RACMO2/ANT simulations based on automatic weather stations. Climate Dynamics, 2013, 40, 353-376.	1.7	48
9	IEA-Task 31 WAKEBENCH: Towards a protocol for wind farm flow model evaluation. Part 2: Wind farm wake models. Journal of Physics: Conference Series, 2014, 524, 012185.	0.3	36
10	Multi-site testing and evaluation of remote sensing instruments for wind energy applications. Renewable Energy, 2013, 53, 200-210.	4.3	34
11	Atmospheric stability assessment for the characterization of offshore wind conditions. Journal of Physics: Conference Series, 2015, 625, 012044.	0.3	24
12	A methodology for the design and testing of atmospheric boundary layer models for wind energy applications. Wind Energy Science, 2017, 2, 35-54.	1.2	24
13	Wind tunnel simulation of the wind conditions inside bidimensional forest clear-cuts. Application to wind turbine siting. Journal of Wind Engineering and Industrial Aerodynamics, 2007, 95, 609-634.	1.7	23
14	Investigation of the Stable Atmospheric Boundary Layer at Halley Antarctica. Boundary-Layer Meteorology, 2013, 148, 517-539.	1.2	23
15	Large-eddy simulation sensitivities to variations of configuration and forcing parameters in canonical boundary-layer flows for wind energy applications. Wind Energy Science, 2018, 3, 589-613.	1.2	22
16	IEA-Task 31 WAKEBENCH: Towards a protocol for wind farm flow model evaluation. Part 1: Flow-over-terrain models. Journal of Physics: Conference Series, 2014, 524, 012105.	0.3	17
17	Analysing wind farm efficiency on complex terrains. Journal of Physics: Conference Series, 2014, 524, 012142.	0.3	16
18	Statisticalâ€“dynamical downscaling of wind fields using self-organizing maps. Applied Thermal Engineering, 2015, 75, 1201-1209.	3.0	12

#	Article	IF	Citations
19	Wind engineering in the integrated design of princess Elisabeth Antarctic base. Building and Environment, 2012, 52, 1-18.	3.0	11
20	Improving Wind Predictions in the Marine Atmospheric Boundary Layer through Parameter Estimation in a Single-Column Model. Monthly Weather Review, 2017, 145, 5-24.	0.5	11
21	The Alaiz experiment: untangling multi-scale stratified flows over complex terrain. Wind Energy Science, 2020, 5, 1793-1810.	1.2	10
22	Modelling of atmospheric boundary-layer flow in complex terrain with different forest parameterizations. Journal of Physics: Conference Series, 2014, 524, 012119.	0.3	9
23	The New European Wind Atlas Model Chain. Journal of Physics: Conference Series, 2020, 1452, 012087.	0.3	9
24	On the Application of Principal Component Analysis for Accurate Statistical-dynamical Downscaling of Wind Fields. Energy Procedia, 2013, 40, 67-76.	1.8	7
25	Results of the GABLS3 diurnal-cycle benchmark for wind energy applications. Journal of Physics: Conference Series, 2017, 854, 012037.	0.3	6
26	A wind energy benchmark for ABL modelling of a diurnal cycle with a nocturnal low-level jet: GABLS3 revisited. Journal of Physics: Conference Series, 2016, 753, 032024.	0.3	3
27	Validation of Meso-Wake Models for Array Efficiency Prediction Using Operational Data from Five Offshore Wind Farms. Journal of Physics: Conference Series, 2020, 1618, 062044.	0.3	2
28	On the measurement of stability parameter over complex mountainous terrain. Wind Energy Science, 2022, 7, 221-235.	1.2	2
29	The role of predictability in the investment phase of wind farms. , 2017, , 341-357.		1