Jake Badger

List of Publications by Year
in descending order

32 papers	1,233 citations	471061 17 h-index	476904 29 g-index
34 all docs	34 docs citations	34 times ranked	1169 citing authors

#	Article	IF	Citations
1	Wind Resource Estimation-An Overview. Wind Energy, 2003, 6, 261-271.	1.9	157
2	Simulating European wind power generation applying statistical downscaling to reanalysis data. Applied Energy, 2017, 199, 155-168.	5.1	104
3	ENSPRESO - an open, EU-28 wide, transparent and coherent database of wind, solar and biomass energy potentials. Energy Strategy Reviews, 2019, 26, 100379.	3.3	91
4	The Making of the New European Wind Atlas â€“ Part 2: Production and evaluation. Geoscientific Model Development, 2020, 13, 5079-5102.	1.3	86
5	Simple Initial Value Problems and Mechanisms for Baroclinic Growth. Journals of the Atmospheric Sciences, 2001, 58, 38-49.	0.6	68
6	The Explicit Wake Parametrisation V1.0: a wind farm parametrisation in the mesoscale model WRF. Geoscientific Model Development, 2015, 8, 3715-3731.	1.3	66
7	Production of the Finnish Wind Atlas. Wind Energy, 2013, 16, 19-35.	1.9	57
8	Using Satellite SAR to Characterize the Wind Flow around Offshore Wind Farms. Energies, 2015, 8, 5413-5439.	1.6	55
9	The making of a secondâ€generation wind farm efficiency model complex. Wind Energy, 2009, 12, 445-458.	1.9	53
10	Recipes for Correcting the Impact of Effective Mesoscale Resolution on the Estimation of Extreme Winds. Journal of Applied Meteorology and Climatology, 2012, 51, 521-533.	0.6	53
11	The nature of singular vector growth and structure. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 1565-1580.	1.0	51
12	Prospects for generating electricity by large onshore and offshore wind farms. Environmental Research Letters, 2017, 12, 034022.	2.2	44
13	Offshore Coastal Wind Speed Gradients: Issues for the Design and Development of Large Offshore Windfarms. Wind Engineering, 2007, 31, 369-382.	1.1	42
14	Wind-Climate Estimation Based on Mesoscale and Microscale Modeling: Statisticalâ€“Dynamical Downscaling for Wind Energy Applications. Journal of Applied Meteorology and Climatology, 2014, 53, 1901-1919.	0.6	42
15	Wind Class Sampling of Satellite SAR Imagery for Offshore Wind Resource Mapping. Journal of Applied Meteorology and Climatology, 2010, 49, 2474-2491.	0.6	41
16	Wind Farm Wake: The 2016 Horns Rev Photo Case. Energies, 2017, 10, 317.	1.6	32
17	Review of Mesoscale Wind-Farm Parametrizations and Their Applications. Boundary-Layer Meteorology, 2022, 182, 175-224.	1.2	30
18	From wind ensembles to probabilistic information about future wind power production Â¿ results from an actual application. , 2006, , .		23

#	Article	IF	Citations
19	Using modeling, satellite images and existing global datasets for rapid preliminary assessments of renewable energy resources: The case of Mali. Renewable and Sustainable Energy Reviews, 2010, 14, 2359-2371.	8.2	18
20	An intercomparison of mesoscale models at simple sites for wind energy applications. Wind Energy Science, 2017, 2, 211-228.	1.2	17
21	The nature of singular vector growth and structure. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 1565-1580.	1.0	15
22	The selective dynamical downscaling method for extremeâ€wind atlases. Wind Energy, 2013, 16, 1167-1182.	1.9	15
23	Development of a Numerical Wind Atlas for South Africa. Energy Procedia, 2015, 76, 128-137.	1.8	14
24	Wind and solar resource data sets. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e276.	1.9	13
25	Comparing satellite SAR and wind farm wake models. Journal of Physics: Conference Series, 2015, 625, 012035.	0.3	12
26	Efficient large-scale wind turbine deployment can meet global electricity generation needs. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8945.	3.3	8
27	Class Generation for Numerical Wind Atlases. Wind Engineering, 2006, 30, 401-415.	1.1	5
28	A hybrid solution for offshore wind resource assessment from limited onshore measurements. Applied Energy, 2021, 298, 117245.	5.1	5
29	Wind Energy Resources of the South Baltic Sea. , 2011, , .		2
30	Evaluation of two mesoscale wind farm parametrisations with offshore tall masts. Journal of Physics: Conference Series, 2022, 2265, 022038.	0.3	2
31	Feasibility of wind power integration in weak grids in non-coastal areas of sub-saharan Africa: the case of Mali. AIMS Energy, 2017, 5, 557-584.	1.1	1
32	Energy Yield Prediction of Offshore Wind Farm Clusters at the EERA-DTOC European Project. Energy Procedia, 2014, 53, 324-341.	1.8	0