Charlotte Bay Hasager

List of Publications by Year
in descending order

67 papers	**3,136** citations	159358 **30** h-index	155451 **55** g-index
73 all docs	**73** docs citations	**73** times ranked	**2723** citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of drop‐size parameterization and rain amount on blade‐lifetime calculations considering leading‐edge erosion. Wind Energy, 2022, 25, 952-967.	1.9	2
2	Comparing Offshore Ferry Lidar Measurements in the Southern Baltic Sea with ASCAT, FINO2 and WRF. Remote Sensing, 2022, 14, 1427.	1.8	2
3	Experimental study on the effect of drop size in rain erosion test and on lifetime prediction of wind turbine blades. Renewable Energy, 2022, 197, 776-789.	4.3	9
4	Evaluation of Aeolus L2B wind product with wind profiling radar measurements and numerical weather prediction model equivalents over Australia. Atmospheric Measurement Techniques, 2022, 15, 4107-4124.	1.2	10
5	Rain Erosion Load and Its Effect on Leading-Edge Lifetime and Potential of Erosion-Safe Mode at Wind Turbines in the North Sea and Baltic Sea. Energies, 2021, 14, 1959.	1.6	18
6	Leading edge erosion of wind turbine blades: Understanding, prevention and protection. Renewable Energy, 2021, 169, 953-969.	4.3	72
7	Variation of leading-edge-erosion relevant precipitation parameters with location and weather type. Meteorologische Zeitschrift, 2021, 30, 251-269.	0.5	2
8	Spaceborne Earth Observation for Offshore Wind Energy Applications. , 2021, , .		2
9	Assessment of the rain and wind climate with focus on wind turbine blade leading edge erosion rate and expected lifetime in Danish Seas. Renewable Energy, 2020, 149, 91-102.	4.3	29
10	Rainfall Kinetic Energy in Denmark: Relationship with Drop Size, Wind Speed, and Rain Rate. Journal of Hydrometeorology, 2020, 21, 1621-1637.	0.7	10
11	Europe's offshore winds assessed with synthetic aperture radar, ASCAT and WRF. Wind Energy Science, 2020, 5, 375-390.	1.2	22
12	Brief communication: Nowcasting of precipitation for leading-edge-erosion-safe mode. Wind Energy Science, 2020, 5, 977-981.	1.2	9
13	Editorial for the Special Issue "Remote Sensing of Atmospheric Conditions for Wind Energy Applications". Remote Sensing, 2019, 11, 781.	1.8	3
14	Offshore new European wind atlas. Journal of Physics: Conference Series, 2018, 1037, 052007.	0.3	15
15	Applications of satellite winds for the offshore wind farm site Anholt. Wind Energy Science, 2018, 3, 573-588.	1.2	24
16	Extending the life of wind turbine blade leading edges by reducing the tip speed during extreme precipitation events. Wind Energy Science, 2018, 3, 729-748.	1.2	62
17	Wind Farm Wake: The 2016 Horns Rev Photo Case. Energies, 2017, 10, 317.	1.6	32
18	The Role of Logistics in Practical Levelized Cost of Energy Reduction Implementation and Government Sponsored Cost Reduction Studies: Day and Night in Offshore Wind Operations and Maintenance Logistics. Energies, 2017, 10, 464.	1.6	17

#	Article	IF	Citations
19	The (R)evolution of China: Offshore Wind Diffusion. Energies, 2017, 10, 2153.	1.6	10
20	Quarter-Century Offshore Winds from SSM/I and WRF in the North Sea and South China Sea. Remote Sensing, 2016, 8, 769.	1.8	13
21	How Expensive Is Expensive Enough? Opportunities for Cost Reductions in Offshore Wind Energy Logistics. Energies, 2016, 9, 437.	1.6	17
22	An Overview of Offshore Wind Farm Design. , 2016, , 337-346.		9
23	Ten Years of Boundary-Layer and Wind-Power Meteorology at Høvsøre, Denmark. Boundary-Layer Meteorology, 2016, 158, 1-26.	1.2	72
24	Using Satellite SAR to Characterize the Wind Flow around Offshore Wind Farms. Energies, 2015, 8, 5413-5439.	1.6	55
25	Offshore Wind Resources Assessment from Multiple Satellite Data and WRF Modeling over South China Sea. Remote Sensing, 2015, 7, 467-487.	1.8	61
26	Mapping Offshore Winds Around Iceland Using Satellite Synthetic Aperture Radar and Mesoscale Model Simulations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5541-5552.	2.3	9
27	Satellite winds as a tool for offshore wind resource assessment: The Great Lakes Wind Atlas. Remote Sensing of Environment, 2015, 168, 349-359.	4.6	49
28	Wind climate estimation using WRF model output: method and model sensitivities over the sea. International Journal of Climatology, 2015, 35, 3422-3439.	1.5	124
29	Offshore wind climatology based on synergetic use of Envisat ASAR, ASCAT and QuikSCAT. Remote Sensing of Environment, 2015, 156, 247-263.	4.6	124
30	Applicability of Synthetic Aperture Radar Wind Retrievals on Offshore Wind Resources Assessment in Hangzhou Bay, China. Energies, 2014, 7, 3339-3354.	1.6	23
31	Offshore winds mapped from satellite remote sensing. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 594-603.	1.9	24
32	Wind characteristics in the North and Baltic Seas from the QuikSCAT satellite. Wind Energy, 2014, 17, 123-140.	1.9	48
33	The wind energy potential of Iceland. Renewable Energy, 2014, 69, 290-299.	4.3	104
34	Effectiveness of WRF wind direction for retrieving coastal sea surface wind from synthetic aperture radar. Wind Energy, 2013, 16, 865-878.	1.9	13
35	Transmission of wave energy through an offshore wind turbine farm. Coastal Engineering, 2013, 82, 25-46.	1.7	20
36	Spatial and temporal variability of winds in the Northern European Seas. Renewable Energy, 2013, 57, 200-210.	4.3	92

#	ARTICLE	IF	CITATIONS
37	Wind Farm Wake: The Horns Rev Photo Case. Energies, 2013, 6, 696-716.	1.6	60
38	Comparison of Geophysical Model Functions for SAR Wind Speed Retrieval in Japanese Coastal Waters. Remote Sensing, 2013, 5, 1956-1973.	1.8	31
39	Hub Height Ocean Winds over the North Sea Observed by the NORSEWInD Lidar Array: Measuring Techniques, Quality Control and Data Management. Remote Sensing, 2013, 5, 4280-4303.	1.8	42
40	Spectral Properties of ENVISAT ASAR and QuikSCAT Surface Winds in the North Sea. Remote Sensing, 2013, 5, 6096-6115.	1.8	8
41	Satellite Remote Sensing in Offshore Wind Energy. Energy Systems, 2013, , 711-745.	0.5	5
42	SST diurnal variability in the North Sea and the Baltic Sea. Remote Sensing of Environment, 2012, 121, 159-170.	4.6	50
43	SAR-Based Wind Resource Statistics in the Baltic Sea. Remote Sensing, 2011, 3, 117-144.	1.8	97
44	Wind Energy Resources of the South Baltic Sea. , 2011, , .		2
45	Comparing mixing-length models of the diabatic wind profile over homogeneous terrain. Theoretical and Applied Climatology, 2010, 100, 325-335.	1.3	59
46	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
47	Remote sensing based evapotranspiration and runoff modeling of agricultural, forest and urban flux sites in Denmark: From field to macro-scale. Journal of Hydrology, 2009, 377, 300-316.	2.3	64
48	Offshore wind profiling using light detection and ranging measurements. Wind Energy, 2009, 12, 105-124.	1.9	121
49	Measurements and Modelling of the Wind Speed Profile in the Marine Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2008, 129, 479-495.	1.2	88
50	Remote Sensing Observation Used in Offshore Wind Energy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2008, 1, 67-79.	2.3	71
51	Satellite eye for the galathea 3 ship expedition: global tour 2006-2007. , 2007, , .		1
52	Offshore winds using remote sensing techniques. Journal of Physics: Conference Series, 2007, 75, 012038.	0.3	0
53	Wind resource assessment from C-band SAR. Remote Sensing of Environment, 2006, 105, 68-81.	4.6	130
54	Update of a Footprint-Based Approach for the Characterisation of Complex Measurement Sites. Boundary-Layer Meteorology, 2006, 118, 635-655.	1.2	97

#	Article	IF	Citations
55	Wake effects of large offshore wind farms identified from satellite SAR. Remote Sensing of Environment, 2005, 98, 251-268.	4.6	184
56	Summer algal blooms in a coastal ecosystem: the role of atmospheric deposition versus entrainment fluxes. Estuarine, Coastal and Shelf Science, 2005, 62, 595-608.	0.9	29
57	Editorial: Surface fluxes over land in complex terrain. Theoretical and Applied Climatology, 2005, 80, 79-79.	1.3	4
58	Incorporating remote sensing data in physically based distributed agro-hydrological modelling. Journal of Hydrology, 2004, 287, 279-299.	2.3	142
59	Effective Roughness Calculated from Satellite-Derived Land Cover Maps and Hedge-Information used in a Weather Forecasting Model. Boundary-Layer Meteorology, 2003, 109, 227-254.	1.2	41
60	Carbon dioxide exchange over agricultural landscape using eddy correlation and footprint modelling. Agricultural and Forest Meteorology, 2003, 114, 153-173.	1.9	104
61	High-resolution wind fields from synthetic aperture radars and numerical models for offshore wind farming. Elsevier Oceanography Series, 2003, , 450-457.	0.1	0
62	On extreme atmospheric and marine nitrogen fluxes and chlorophyll-a levels in the Kattegat Strait. Atmospheric Chemistry and Physics, 2003, 3, 797-812.	1.9	9
63	On offshore wind energy mapping using satellite SAR. Canadian Journal of Remote Sensing, 2002, 28, 80-89.	1.1	19
64	Airborne multispectral data for quantifying leaf area index, nitrogen concentration, and photosynthetic efficiency in agriculture. Remote Sensing of Environment, 2002, 81, 179-193.	4.6	308
65	IRS-1C LISS III land cover maps at different spatial resolutions used in real-time accidental air pollution deposition modelling. Remote Sensing of Environment, 2001, 76, 326-336.	4.6	9
66	Regional Fluxes Of Momentum And Sensible Heat Over A Sub-Arctic Landscape During Late Winter. Boundary-Layer Meteorology, 2001, 99, 489-507.	1.2	25
67	Surface‐flux aggregation in heterogeneous terrain. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 2075-2102.	1.0	86