Torben Krogh Mikkelsen

List of Publications by Year
in descending order

91	2,225	218592	243529
papers	citations	26 h-index	44 g-index

105	105	105	1426
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ensemble dispersion forecastingâ€”Part I: concept, approach and indicators. Atmospheric Environment, 2004, 38, 4607-4617.	1.9	152
2	Wind lidar evaluation at the Danish wind test site in HÃ¸vsÃ¸re. Wind Energy, 2006, 9, 87-93.	1.9	145
3	Offshore wind profiling using light detection and ranging measurements. Wind Energy, 2009, 12, 105-124.	1.9	121
4	A spinnerâ€integrated wind lidar for enhanced wind turbine control. Wind Energy, 2013, 16, 625-643.	1.9	110
5	Description of the RisÃ¸ Puff Diffusion Model. Nuclear Technology, 1984, 67, 56-65.	0.7	90
6	Ensemble dispersion forecastingâ€”Part II: application and evaluation. Atmospheric Environment, 2004, 38, 4619-4632.	1.9	81
7	Comparison of 3D turbulence measurements using three staring wind lidars and a sonic anemometer. Meteorologische Zeitschrift, 2009, 18, 135-140.	0.5	79
8	Characterization of wind velocities in the upstream induction zone of a wind turbine using scanning continuous-wave lidars. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	74
9	Airborne transmission of footâ€andâ€mouth disease virus from Burnside Farm, Heddononâ€theâ€Wall, Northumberland, during the 2001 epidemic in the United Kingdom. Veterinary Record, 2003, 152, 525-533.	0.2	61
10	Investigation of airborne foot-and-mouth disease virus transmission during low-wind conditions in the early phase of the UK 2001 epidemic. Atmospheric Chemistry and Physics, 2003, 3, 2101-2110.	1.9	57
11	Long-Range WindScanner System. Remote Sensing, 2016, 8, 896.	1.8	56
12	Modelling the atmospheric dispersion of foot-and-mouth disease virus for emergency preparedness. Physics and Chemistry of the Earth, 2001, 26, 93-97.	0.3	55
13	Power curve and wake analyses of the Vestas multi-rotor demonstrator. Wind Energy Science, 2019, 4, 251-271.	1.2	52
14	Diffusion of charged particles in turbulent magnetoplasmas. Plasma Physics and Controlled Fusion, 1987, 29, 825-856.	0.9	46
15	Wind stress measurements during the Tower Ocean Wave and Radar Dependence Experiment. Journal of Geophysical Research, 1988, 93, 13913-13923.	3.3	43
16	Spatial averaging-effects on turbulence measured by a continuous-wave coherent lidar. Meteorologische Zeitschrift, 2009, 18, 281-287.	0.5	43
17	Precision and shortcomings of yaw error estimation using spinnerâ€based light detection and ranging. Wind Energy, 2013, 16, 353-366.	1.9	42
18	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

#	Article	IF	Citations
19	Testing the importance of accurate meteorological input fields and parameterizations in atmospheric transport modelling using dream - validation against ETEX-1. Atmospheric Environment, 1998, 32, 4167-4186.	1.9	38
20	Estimation of health hazards resulting from a radiological terrorist attack in a city. Radiation Protection Dosimetry, 2008, 131, 297-307.	0.4	38
21	Drift wave turbulence in low-Â plasmas. Plasma Physics, 1983, 25, 1173-1197.	0.9	37
22	MET-RODOS: A Comprehensive Atmospheric Dispersion Module. Radiation Protection Dosimetry, 1997, 73, 45-55.	0.4	35
23	Retrieving wind statistics from average spectrum of continuous-wave lidar. Atmospheric Measurement Techniques, 2013, 6, 1673-1683.	1.2	31
24	Lidar-based Research and Innovation at DTU Wind Energy â€“ a Review. Journal of Physics: Conference Series, 2014, 524, 012007.	0.3	31
25	Strong turbulence in partially ionized plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 77, 159-162.	0.9	28
26	An Overview of MADONA: A Multinational Field Study of High-Resolution Meteorology and Diffusion over Complex Terrain. Bulletin of the American Meteorological Society, 1999, 80, 5-19.	1.7	27
27	Requirements for estimation of doses from contaminants dispersed by a â€˜dirty bombâ€™ explosion in an urban area. Journal of Environmental Radioactivity, 2009, 100, 1005-1011.	0.9	27
28	Long-Term Profiles of Wind and Weibull Distribution Parameters up to 600 m in a Rural Coastal and an Inland Suburban Area. Boundary-Layer Meteorology, 2014, 150, 167-184.	1.2	27
29	Variations of the Wake Height over the Bolund Escarpment Measured by a Scanning Lidar. Boundary-Layer Meteorology, 2016, 159, 147-159.	1.2	26
30	Investigation of wake interaction using fullâ€scale lidar measurements and large eddy simulation. Wind Energy, 2016, 19, 1535-1551.	1.9	25
31	Lidar measurements of plume statistics. Boundary-Layer Meteorology, 1993, 62, 361-378.	1.2	24
32	A Fast Model for Mean and Turbulent Wind Characteristics over Terrain with Mixed Surface Roughness. Radiation Protection Dosimetry, 1997, 73, 257-260.	0.4	22
33	Two-Dimensional Rotorcraft Downwash Flow Field Measurements by Lidar-Based Wind Scanners with Agile Beam Steering. Journal of Atmospheric and Oceanic Technology, 2014, 31, 930-937.	0.5	21
34	Lidar calibration experiments. Applied Physics B: Lasers and Optics, 1997, 64, 355-361.	1.1	20
35	Application of short-range dual-Doppler lidars to evaluate the coherence of turbulence. Experiments in Fluids, 2016, 57, 1.	1.1	20
36	Demonstration and uncertainty analysis of synchronised scanning lidar measurements of 2-D velocity fields in a boundary-layer wind tunnel. Wind Energy Science, 2017, 2, 329-341.	1.2	20

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37	Using a combination of two models in tracer simulations. Mathematical and Computer Modelling, 1996, 23, 99-115.	2.0	19
38	Can the confidence in long range atmospheric transport models be increased? The pan-european experience of ensemble. Radiation Protection Dosimetry, 2004, 109, 19-24.	0.4	18
39	Turbulent diffusion in two-dimensional, strongly magnetized plasmas. Journal of Plasma Physics, 1985, 34, 77-94.	0.7	17
40	Similarity Scaling Of Surface-Released Smoke Plumes. Boundary-Layer Meteorology, 2002, 105, 483-505.	1.2	17
41	Scaling of turbulence spectra measured in strong shear flow near the Earthâ€™s surface. Physica Scripta, 2017, 92, 124002.	1.2	17
42	Experimental evaluation of gamma fluence-rate predictions from Argon-41 releases to the atmosphere over a nuclear research reactor site. Radiation Protection Dosimetry, 2004, 108, 161-168.	0.4	15
43	Investigation of Strong Turbulence in a Low-Î²Plasma. Physical Review Letters, 1978, 41, 951-954.	2.9	14
44	Improving Yaw Alignment Using Spinner Based LIDAR. , 2011, , .		14
45	Full-scale observation of the flow downstream of a suspension bridge deck. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 171, 261-272.	1.7	14
46	Diffusion of gaussian puffs. , 1987, 113, 81.		11
47	A probabilistic dispersion model applied to the long-range transport of radionuclides from the Chernobyl accident. Atmospheric Environment, 1999, 33, 3271-3279.	1.9	10
48	METRODOS: Meteorological preprocessor chain. Physics and Chemistry of the Earth, 2001, 26, 105-110.	0.3	10
49	Atmospheric boundary layer wind profile at a flat coastal site â€“ wind speed lidar measurements and mesoscale modeling results. Advances in Science and Research, 2011, 6, 155-159.	1.0	10
50	Large-Scale Spectral Structure with a Gap in the Stably Stratified Atmosphere. Physica Scripta, 1985, 31, 616-620.	1.2	9
51	Clumps in drift wave turbulence. Plasma Physics and Controlled Fusion, 1986, 28, 1025-1041.	0.9	9
52	A Bistatic Sodar for Precision Wind Profiling in Complex Terrain. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1052-1061.	0.5	9
53	Scanning Lidar Spatial Calibration and Alignment Method for Wind Turbine Wake Characterization. , 2017, , .		9
54	LINCOM wind flow model: application to complex terrain with thermal stratification. Physics and Chemistry of the Earth, 2001, 26, 839-842.	0.3	8

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55	Atmospheric dispersion of argon-41 from a nuclear research reactor: measurement and modelling of plume geometry and gamma radiation field. International Journal of Environment and Pollution, 2003, 20, 47.	0.2	8
56	Calculating the consequences of recovery, a European model for inhabited areas. Radioprotection, 2009, 44, 407-412.	0.5	8
57	Editorial: Trends in wind energy. Journal of Renewable and Sustainable Energy, 2011, 3, .	0.8	8
58	Turbulence Characteristics of Wind-Speed Fluctuations in the Presence of Open Cells: A Case Study. Boundary-Layer Meteorology, 2019, 171, 191-212.	1.2	8
59	Chapter 2.16 Medium-range puff growth. Developments in Environmental Science, 2007, , 243-252.	0.5	7
60	Concentration Fluctuations in Smoke Plumes Released Near the Ground. Boundary-Layer Meteorology, 2010, 137, 345-372.	1.2	7
61	K-model description of probabilistic long-range atmospheric transport in the Northern Hemisphere. Atmospheric Environment, 2006, 40, 4352-4369.	1.9	6
62	Note on Spectral Diffusivity Theory. Journal of Applied Meteorology, 1980, 19, 609-615.	1.1	5
63	On the finite line source problem in diffusion theory. Atmospheric Environment, 1982, 16, 2591-2594.	1.1	5
64	Probabilistic risk assessment for long-range atmospheric transport of radionuclides. Journal of Environmental Radioactivity, 2007, 96, 110-115.	0.9	5
65	Characterization of wind velocities in the wake of a full scale wind turbine using three ground-based synchronized WindScanners. Journal of Physics: Conference Series, 2016, 753, 032032.	0.3	5
66	Measurement methodologies for wind energy based on ground-level remote sensing. , 2017, , 29-56.		5
67	Modelling the spectral shape of continuous-wave lidar measurements in a turbulent wind tunnel. Atmospheric Measurement Techniques, 2022, 15, 1355-1372.	1.2	5
68	Planning sensor locations for the detection of radioactive plumes for Norway and the Balkans. Radioprotection, 2011, 46, S55-S61.	0.5	4
69	Assessment of Wind Conditions at a Fjord Inlet by Complementary Use of Sonic Anemometers and Lidars. Energy Procedia, 2015, 80, 411-421.	1.8	4
70	Inflow characterization using measurements from the SpinnerLidar: the ScanFlow experiment. Journal of Physics: Conference Series, 2018, 1037, 052027.	0.3	4
71	Test of a New Concentration Fluctuation Model for Decision-Makers. , 1996, , 285-293.		4
72	Validation of a Combination of Two Models for Long-Range Tracer Simulations. , 1996, , 461-469.		4

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73	Comments on â€œGeneralization ofK-Theory for Turbulent Diffusion.â€•Part II.. Journal of Applied Meteorology, 1980, 19, 117-118.	1.1	3
74	Comments â€œOn Lateral Dispersion Coefficients as Function of Averaging Timeâ€• Journal of Applied Meteorology, 1981, 20, 731-732.	1.1	3
75	Laser scanning of a recirculation zone on the Bolund escarpment. Journal of Physics: Conference Series, 2014, 555, 012066.	0.3	3
76	Evaluation of the LINCOM wind field reconstruction method with simulations and full-scale measurements. Journal of Physics: Conference Series, 2018, 1037, 052008.	0.3	3
77	A Model for the Spectrum of the Lateral Velocity Component from Mesoscale to Microscale and Its Application to Wind-Direction Variation. Boundary-Layer Meteorology, 2021, 178, 415-434.	1.2	3
78	Instantaneous Observations of Plume Dispersion in the Surface Layer. , 1985, , 549-569.		3
79	Comparison of NWP prognosis and local monitoring data from NPPs. Radioprotection, 2010, 45, S97-S111.	0.5	3
80	An Operational Real-Time Model Chain for Now- and Forecasting of Radioactive Atmospheric Releases on the Local Scale. , 1998, , 501-508.		3
81	Estimation of Horizontal Diffusion from Oblique Aerial Photographs of Smoke Clouds. Journal of Atmospheric and Oceanic Technology, 1991, 8, 873-878.	0.5	2
82	On the requirements to establish a European radiological preparedness for malicious airborne dispersion scenarios. Radioprotection, 2011, 46, S589-S594.	0.5	2
83	Experimental evaluation of a model for the influence of coherent wind lidars on their remote measurements of atmospheric boundary-layer turbulence. Proceedings of SPIE, 2011, , .	0.8	2
84	Lidars for Wind Tunnels - an IRPWind Joint Experiment Project. Energy Procedia, 2017, 137, 339-345.	1.8	2
85	STRONG TURBULENCE IN PARTIALLY IONIZED PLASMAS. Journal De Physique Colloque, 1979, 40, C7-569-C7-570.	0.2	2
86	Dispersion Scenarios Over Complex Terrain. Radiation Protection Dosimetry, 1993, 50, 249-255.	0.4	2
87	Data assimilation approaches in the EURANOS project. Radioprotection, 2010, 45, S123-S131.	0.5	2
88	The VetMet Veterinary Decision Support System for Airborne Animal Diseases. NATO Security Through Science Series C: Environmental Security, 2008, , 199-207.	0.1	1
89	Experimental Evaluation of a PC-Based Real-Time Dispersion Modeling System for Accidental Releases in Complex Terrain. , 1994, , 383-394.		1
90	Offshore winds using remote sensing techniques. Journal of Physics: Conference Series, 2007, 75, 012038.	0.3	0

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91	Modelling Diffusion and Dispersion of Pollutants. ERCOFTAC Series, 1995, , 145-164.	0.1	0