

# Stefan Emeis

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

2,978  
citations

32  
h-index

49  
g-index

204  
ext. papers

3,457  
ext. citations

2.7  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
151	The five main influencing factors for lidar errors in complex terrain. <i>Wind Energy Science</i> , <b>2022</b> , 7, 413-431	3.2	0
150	Sodar and RASS. <i>Springer Handbooks</i> , <b>2021</b> , 663-684	1.3	1
149	Measurement Systems for Wind, Solar and Hydro Power Applications. <i>Springer Handbooks</i> , <b>2021</b> , 1385-1405	1.5	0
148	Evaluation of a simple analytical model for offshore wind farm wake recovery by in situ data and Weather Research and Forecasting simulations. <i>Wind Energy</i> , <b>2021</b> , 24, 212-228	3.4	6
147	Offshore wind farm wake recovery: Airborne measurements and its representation in engineering models. <i>Wind Energy</i> , <b>2020</b> , 23, 1249-1265	3.4	20
146	Long-range modifications of the wind field by offshore wind parks – results of the project WIPAFF. <i>Meteorologische Zeitschrift</i> , <b>2020</b> , 29, 355-376	3.1	15
145	In situ airborne measurements of atmospheric and sea surface parameters related to offshore wind parks in the German Bight. <i>Earth System Science Data</i> , <b>2020</b> , 12, 935-946	10.5	10
144	How to bring urban and global climate studies together with urban planning and architecture?. <i>Developments in the Built Environment</i> , <b>2020</b> , 4, 100023	5.1	8
143	Turbulent kinetic energy over large offshore wind farms observed and simulated by the mesoscale model WRF (3.8.1). <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 249-268	6.3	19
142	Observed and simulated turbulent kinetic energy (WRF 3.8.1) over large offshore wind farms <b>2019</b> ,		2
141	Urban Climate Under Change [UC]2 – A National Research Programme for Developing a Building-Resolving Atmospheric Model for Entire City Regions. <i>Meteorologische Zeitschrift</i> , <b>2019</b> , 28, 95-104	3.1	14
140	Three-Dimensional Observation of Atmospheric Processes in Cities. <i>Meteorologische Zeitschrift</i> , <b>2019</b> , 28, 121-138	3.1	11
139	First in situ evidence of wakes in the far field behind offshore wind farms. <i>Scientific Reports</i> , <b>2018</b> , 8, 2163	4.9	78
138	Seasonal variability and source distribution of haze particles from a continuous one-year study in Beijing. <i>Atmospheric Pollution Research</i> , <b>2018</b> , 9, 627-633	4.5	13
137	Wind Energy Meteorology. <i>Green Energy and Technology</i> , <b>2018</b> ,	0.6	32
136	Wind Data Sources. <i>Green Energy and Technology</i> , <b>2018</b> , 183-230	0.6	1
135	Wind Regimes. <i>Green Energy and Technology</i> , <b>2018</b> , 11-30	0.6	

134	Offshore Winds. <i>Green Energy and Technology</i> , <b>2018</b> , 113-155	0.6	
133	Vertical Profiles Over Flat Terrain. <i>Green Energy and Technology</i> , <b>2018</b> , 31-89	0.6	1
132	Physics of Wind Parks. <i>Green Energy and Technology</i> , <b>2018</b> , 157-182	0.6	0
131	Micrometeorological impacts of offshore wind farms as seen in observations and simulations. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 124012	6.2	29
130	Evaluation of a Wind Farm Parametrization for Mesoscale Atmospheric Flow Models with Aircraft Measurements. <i>Meteorologische Zeitschrift</i> , <b>2018</b> , 27, 401-415	3.1	22
129	High-Resolution Observations of Transport and Exchange Processes in Mountainous Terrain. <i>Atmosphere</i> , <b>2018</b> , 9, 457	2.7	12
128	Chemical characteristics of PM 2.5 during haze episodes in spring 2013 in Beijing. <i>Urban Climate</i> , <b>2017</b> , 22, 51-63	6.8	21
127	High resolution climate projections to assess the future vulnerability of European urban areas to climatological extreme events. <i>Theoretical and Applied Climatology</i> , <b>2017</b> , 127, 667-683	3	19
126	Developing a Research Strategy to Better Understand, Observe, and Simulate Urban Atmospheric Processes at Kilometer to Subkilometer Scales. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, ES261-ES264	6.1	24
125	Measurements of heat and humidity fluxes in the wake of offshore wind turbines. <i>Journal of Renewable and Sustainable Energy</i> , <b>2017</b> , 9, 053304	2.5	7
124	The SCALEX Campaign: Scale-Crossing Land Surface and Boundary Layer Processes in the TERENO-preAlpine Observatory. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 1217-1234	6.1	41
123	Upper limit for wind shear in stably stratified conditions expressed in terms of a bulk Richardson number. <i>Meteorologische Zeitschrift</i> , <b>2017</b> , 26, 421-430	3.1	9
122	Simultaneous multicopter-based air sampling and sensing of meteorological variables. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2773-2784	4	50
121	SmartAQnet: remote and in-situ sensing of urban air quality <b>2017</b> ,		2
120	Standards – An Important Step for the (Public) Use of Lidars. <i>EPJ Web of Conferences</i> , <b>2016</b> , 119, 23023	0.3	
119	Characteristics and sources of PM in seasonal perspective – A case study from one year continuously sampling in Beijing. <i>Atmospheric Pollution Research</i> , <b>2016</b> , 7, 235-248	4.5	29
118	Secondary effects of urban heat island mitigation measures on air quality. <i>Atmospheric Environment</i> , <b>2016</b> , 125, 199-211	5.3	105
117	Pilot Actions in European Cities – Stuttgart <b>2016</b> , 281-303		1

116	Cool Cities or Clean Cities? Secondary Impacts of Urban Heat Island Mitigation Strategies on Urban Air Quality. <i>Springer Proceedings in Complexity</i> , <b>2016</b> , 371-375	0.3	
115	Forecasting Models for Urban Warming in Climate Change <b>2016</b> , 3-39		1
114	Exploring the wakes of large offshore wind farms. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 753, 0920143	1.3	13
113	Impact of meteorological conditions on airborne fine particle composition and secondary pollutant characteristics in urban area during winter-time. <i>Meteorologische Zeitschrift</i> , <b>2016</b> , 25, 267-279	3.1	10
112	Half-Order Stable Boundary-Layer Parametrization Without the Eddy Viscosity Approach for Use in Numerical Weather Prediction. <i>Boundary-Layer Meteorology</i> , <b>2015</b> , 154, 207-228	3.4	3
111	Observational techniques to assist the coupling of CWE/CFD models and meso-scale meteorological models. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2015</b> , 144, 24-30	3.7	9
110	Remote sensing winds in complex terrain: A review. <i>Meteorologische Zeitschrift</i> , <b>2015</b> , 24, 547-555	3.1	22
109	Wind speed and shear associated with low-level jets over Northern Germany. <i>Meteorologische Zeitschrift</i> , <b>2014</b> , 23, 295-304	3.1	25
108	Current issues in wind energy meteorology. <i>Meteorological Applications</i> , <b>2014</b> , 21, 803-819	2.1	42
107	Physics of Wind Parks. <i>Green Energy and Technology</i> , <b>2013</b> , 135-153	0.6	6
106	Vertical Profiles Over Flat Terrain. <i>Green Energy and Technology</i> , <b>2013</b> , 23-73	0.6	
105	Offshore Winds. <i>Green Energy and Technology</i> , <b>2013</b> , 95-133	0.6	1
104	Long-term study of air urban quality together with mixing layer height <b>2013</b> ,		1
103	Investigation of boundary layer dynamics, dust and volcanic ash clouds with laser ceilometer <b>2013</b> ,		1
102	Wind Energy Meteorology. <i>Green Energy and Technology</i> , <b>2013</b> ,	0.6	46
101	Winds in Complex Terrain. <i>Green Energy and Technology</i> , <b>2013</b> , 75-93	0.6	1
100	Wind Regimes. <i>Green Energy and Technology</i> , <b>2013</b> , 9-21	0.6	
99	Urban Climate Impact and Interaction of Air Quality and Global Change <b>2013</b> , 345-354		

98	Evaluation of the Interpretation of Ceilometer Data with RASS and Radiosonde Data. <i>Boundary-Layer Meteorology</i> , <b>2012</b> , 143, 25-35	3.4	27
97	Correlation equation for the marine drag coefficient and wave steepness. <i>Ocean Dynamics</i> , <b>2012</b> , 62, 1323-1333	2.3	3
96	A Method for Increasing the Turbulent Kinetic Energy in the Mellor-Yamada-Janjic Boundary-Layer Parametrization. <i>Boundary-Layer Meteorology</i> , <b>2012</b> , 145, 329-349	3.4	12
95	A year of H <sub>2</sub> measurements at Weybourne Atmospheric Observatory, UK. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2012</b> , 64, 17771	3.3	12
94	Areal-averaged trace gas emission rates from long-range open-path measurements in stable boundary layer conditions. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 1571-1583	4	9
93	Mixing layer height and air pollution levels in urban area <b>2012</b> ,		8
92	Enhancing the Simulation of Turbulent Kinetic Energy in the Marine Atmospheric Boundary Layer. <i>Springer Proceedings in Physics</i> , <b>2012</b> , 163-166	0.2	
91	Surface-Based Remote Sensing of the Atmospheric Boundary Layer. <i>Atmospheric and Oceanographic Sciences Library</i> , <b>2011</b> ,		36
90	Influences of the 2010 Eyjafjallajökull volcanic plume on air quality in the northern Alpine region. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8555-8575	6.8	37
89	Measurement and simulation of the 16/17 April 2010 Eyjafjallajökull volcanic ash layer dispersion in the northern Alpine region. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2689-2701	6.8	63
88	A measurement based analysis of the spatial distribution, temporal variation and chemical composition of particulate matter in Munich and Augsburg. <i>Meteorologische Zeitschrift</i> , <b>2011</b> , 20, 47-57	3.1	8
87	Adding confidence levels and error bars to mixing layer heights detected by ceilometer <b>2011</b> ,		6
86	Basic Principles of Surface-Based Remote Sensing. <i>Atmospheric and Oceanographic Sciences Library</i> , <b>2011</b> , 33-71		
85	Weitreichender Windschatten. <i>Physik in Unserer Zeit</i> , <b>2011</b> , 42, 228-233	0.1	
84	Meteorological Aspects of Wind Park Design. <i>Green</i> , <b>2011</b> , 1,		1
83	On a relation between particle size distribution and mixing layer height <b>2011</b> ,		2
82	Comparison of continuous detection of mixing layer heights by ceilometer with radiosonde observations <b>2011</b> ,		1
81	Analytical Description and Vertical Structure of the Atmospheric Boundary Layer. <i>Atmospheric and Oceanographic Sciences Library</i> , <b>2011</b> , 9-32		

80	Application of continuous remote sensing of mixing layer height for assessment of airport air quality <b>2010</b> ,		1
79	Waterspouts over the North and Baltic Seas: Observations and climatology, prediction and reporting. <i>Meteorologische Zeitschrift</i> , <b>2010</b> , 19, 115-129	3.1	13
78	Temporal and spatial structure of a volcanic ash cloud: ground-based remote sensing and numerical modeling <b>2010</b> ,		1
77	Combined evaluations of meteorological parameters, traffic noise and air pollution in an Alpine valley. <i>Meteorologische Zeitschrift</i> , <b>2010</b> , 19, 47-61	3.1	4
76	Revisiting the Definition of the Drag Coefficient in the Marine Atmospheric Boundary Layer. <i>Journal of Physical Oceanography</i> , <b>2010</b> , 40, 2325-2332	2.4	66
75	The dependence of offshore turbulence intensity on wind speed. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2010</b> , 98, 466-471	3.7	67
74	Observation of the structure of the urban boundary layer with different ceilometers and validation by RASS data. <i>Meteorologische Zeitschrift</i> , <b>2009</b> , 18, 149-154	3.1	39
73	Chapter 26 Applications in Meteorology. <i>Developments in Soil Science</i> , <b>2009</b> , 33, 603-622	1.3	5
72	Wind-driven wave heights in the German Bight. <i>Ocean Dynamics</i> , <b>2009</b> , 59, 463-475	2.3	19
71	Air Pollution Transport in an Alpine Valley: Results From Airborne and Ground-Based Observations. <i>Boundary-Layer Meteorology</i> , <b>2009</b> , 131, 441-463	3.4	79
70	A Comparison Between Modelled and Measured Mixing-Layer Height Over Munich. <i>Boundary-Layer Meteorology</i> , <b>2009</b> , 131, 425-440	3.4	20
69	A simple analytical wind park model considering atmospheric stability. <i>Wind Energy</i> , <b>2009</b> , 13, 459-469	3.4	57
68	Improved near-range performance of a low-cost one lens lidar scanning the boundary layer <b>2009</b> ,		1
67	Determination of mixing layer heights by ceilometer and influences upon air quality at Mexico City airport <b>2009</b> ,		1
66	Detection of pollution transport events southeast of Mexico City using ground-based visible spectroscopy measurements of nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 4827-4840	6.8	13
65	Evaluation of continuous ceilometer-based mixing layer heights and correlations with PM 2.5 concentrations in Beijing <b>2009</b> ,		1
64	Derivation of Vertical Wind and Turbulence Profiles, the Mixing-Layer Height, and the Vertical Turbulent Exchange Coefficient from Sodar and Ceilometer Soundings in Urban Measurement Campaigns <b>2009</b> , 133-141		
63	Correlation of aerosol mass near the ground with aerosol optical depth during two seasons in Munich. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 4036-4046	5.3	50

62	New results from continuous mixing layer height monitoring in urban atmosphere <b>2008</b> ,		3
61	Examples for the determination of turbulent (sub-synoptic) fluxes with inverse methods. <i>Meteorologische Zeitschrift</i> , <b>2008</b> , 17, 3-11	3.1	9
60	History of the Meteorologische Zeitschrift. <i>Meteorologische Zeitschrift</i> , <b>2008</b> , 17, 685-693	3.1	8
59	Surface-based remote sensing of the mixing-layer height a review. <i>Meteorologische Zeitschrift</i> , <b>2008</b> , 17, 621-630	3.1	167
58	Long-term observations of the urban mixing-layer height with ceilometers. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2008</b> , 1, 012027	0.3	8
57	Atmospheric influences and local variability of air pollution close to a motorway in an Alpine valley during winter. <i>Meteorologische Zeitschrift</i> , <b>2008</b> , 17, 297-309	3.1	11
56	Emission rates with the boundary layer budget method supported by acoustic remote sensing. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2008</b> , 1, 012055	0.3	
55	Aerosol optical depth, aerosol composition and air pollution during summer and winter conditions in Budapest. <i>Science of the Total Environment</i> , <b>2007</b> , 383, 141-63	10.2	22
54	The surface energy balance and the mixing height in urban areas Activities and recommendations of COST-Action 715. <i>Boundary-Layer Meteorology</i> , <b>2007</b> , 124, 3-24	3.4	48
53	Multiple atmospheric layering and mixing-layer height in the Inn valley observed by remote sensing. <i>Meteorologische Zeitschrift</i> , <b>2007</b> , 16, 415-424	3.1	67
52	Boundary-layer anemometry by optical remote sensing for wind energy applications. <i>Meteorologische Zeitschrift</i> , <b>2007</b> , 16, 337-347	3.1	66
51	Wind and turbulence in the urban boundary layer analysis from acoustic remote sensing data and fit to analytical relations. <i>Meteorologische Zeitschrift</i> , <b>2007</b> , 16, 393-406	3.1	36
50	Long-term monitoring of layering of lower atmosphere in urban environments by ceilometer <b>2007</b> , 6745, 214		1
49	Comparison of Logarithmic Wind Profiles and Power Law Wind Profiles and their Applicability for Offshore Wind Profiles <b>2007</b> , 61-64		6
48	Report on the Research Project OWID Offshore Wind Design Parameter <b>2007</b> , 81-85		1
47	Assessment of air pollution in the vicinity of major alpine routes. <i>Alliance for Global Sustainability Bookseries</i> , <b>2007</b> , 203-214		2
46	Das erste Jahrhundert deutschsprachiger meteorologischer Lehrbücher. <i>Berichte Zur Wissenschaftsgeschichte</i> , <b>2006</b> , 29, 39-51	0.4	1
45	Influence of mixing layer height upon air pollution in urban and sub-urban areas. <i>Meteorologische Zeitschrift</i> , <b>2006</b> , 15, 647-658	3.1	74

44	Mixing layer height over Munich, Germany: Variability and comparisons of different methodologies. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		63
43	Development and validation of tools for the implementation of european air quality policy in Germany (Project VALIUM). <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 3077-3083	6.8	9
42	Airport air quality and emission studies by remote sensing and inverse dispersion modelling <b>2006</b> , 6362, 352		1
41	Remote Sensing Methods to Investigate Boundary-layer Structures relevant to Air Pollution in Cities. <i>Boundary-Layer Meteorology</i> , <b>2006</b> , 121, 377-385	3.4	74
40	Air quality and engine emission at Paris CDG airport during AIRPUR field campaigns. <i>WIT Transactions on Ecology and the Environment</i> , <b>2006</b> ,	1	3
39	Field measurements within a quarter of a city including a street canyon to produce a validation data set. <i>International Journal of Environment and Pollution</i> , <b>2005</b> , 25, 201	0.7	5
38	Evaluation of mixing layer height monitoring by ceilometer with SODAR and microlight aircraft measurements <b>2005</b> ,		2
37	Frequency distributions of the mixing height over an urban area from SODAR data. <i>Meteorologische Zeitschrift</i> , <b>2004</b> , 13, 361-367	3.1	33
36	Vertical wind profiles over an urban area. <i>Meteorologische Zeitschrift</i> , <b>2004</b> , 13, 353-359	3.1	18
35	Determination of mixing layer heights from ceilometer data <b>2004</b> , 5571, 248		17
34	Fusion of air pollution data in the region of Munich, Germany, by the ICAROS NET platform <b>2004</b> ,		2
33	Aerosol concentration measurements with a lidar ceilometer: results of a one year measuring campaign <b>2004</b> , 5235, 486		14
32	Atmospheric boundary-layer structure from simultaneous SODAR, RASS, and ceilometer measurements. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 273-286	5.3	131
31	Parameterization of turbulent viscosity over orography. <i>Meteorologische Zeitschrift</i> , <b>2004</b> , 13, 33-38	3.1	4
30	Observation of aerosol in the mixing layer by a ground-based lidar ceilometer <b>2003</b> ,		3
29	Development of Emission Models and Improvement of Emission Data for Germany. <i>Journal of Atmospheric Chemistry</i> , <b>2002</b> , 42, 179-206	3.2	12
28	Three-Dimensional Ground-Based Measurements of Urban Air Quality to Evaluate Satellite Derived Interpretations for Urban Air Pollution. <i>Water, Air and Soil Pollution</i> , <b>2002</b> , 2, 91-102		5
27	Three-Dimensional Ground-Based Measurements of Urban Air Quality to Evaluate Satellite Derived Interpretations for Urban Air Pollution <b>2002</b> , 91-102		1



26	Assessing the meteorological conditions of a deep Italian Alpine valley system by means of a measuring campaign and simulations with two models during a summer smog episode. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 5441-5454	5.3	16
25	Vertical variation of frequency distributions of wind speed in and above the surface layer observed by sodar. <i>Meteorologische Zeitschrift</i> , <b>2001</b> , 10, 141-149	3.1	18
24	Process-based modelling of isoprene emission by oak leaves. <i>Plant, Cell and Environment</i> , <b>2000</b> , 23, 585-595	5.3	99
23	Nocturnal secondary ozone concentration maxima analysed by sodar observations and surface measurements. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 4315-4329	5.3	66
22	The VOTALP Mesolcina Valley Campaign 1996 [Concept, background and some highlights. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 1395-1412	5.3	46
21	Application of a multiscale, coupled MM5/chemistry model to the complex terrain of the VOTALP valley campaign. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 1435-1453	5.3	168
20	SODAR Messungen zur Atmosphärforschung und Umweltüberwachung. <i>Meteorologische Zeitschrift</i> , <b>1998</b> , 7, 11-14	3.1	9
19	Measuring the emissions of trace compounds from a livestock building <b>1997</b> , 3106, 137		2
18	Sensitivität der Ozonbildung auf Emissionen von VOCs und NOx [Eine Fallstudie mit dem Boxmodell BAYROZON. <i>Meteorologische Zeitschrift</i> , <b>1997</b> , 6, 60-72	3.1	8
17	Modification of air flow over an escarpment [Results from the Hjärdemö experiment. <i>Boundary-Layer Meteorology</i> , <b>1995</b> , 74, 131-161	3.4	35
16	Reduction of Horizontal Wind Speed in a Boundary Layer with Obstacles <b>1995</b> , 739-739		
15	Flow over an embankment: Speed-up and pressure perturbation. <i>Boundary-Layer Meteorology</i> , <b>1993</b> , 63, 163-182	3.4	15
14	Reduction of horizontal wind speed in a boundary layer with obstacles. <i>Boundary-Layer Meteorology</i> , <b>1993</b> , 64, 297-305	3.4	40
13	Resistance law, effective roughness length, and deviation angle over hilly terrain. <i>Boundary-Layer Meteorology</i> , <b>1991</b> , 55, 191-198	3.4	6
12	Surface pressure distribution and pressure drag on mountains. <i>Meteorology and Atmospheric Physics</i> , <b>1990</b> , 43, 173-185	2	5
11	Pressure Drag of Obstacles in the Atmospheric Boundary Layer. <i>Journal of Applied Meteorology and Climatology</i> , <b>1990</b> , 29, 461-476		14
10	Pressure drag and effective roughness length with neutral stratification. <i>Boundary-Layer Meteorology</i> , <b>1987</b> , 39, 379-401	3.4	17
9	A diagnostic model for synoptic heat budgets. <i>Archives for Meteorology, Geophysics and Bioclimatology, Series A</i> , <b>1985</b> , 33, 407-420		3

8	Analysis of Some Major Limitations of Analytical Top-Down Wind-Farm Models. <i>Boundary-Layer Meteorology</i> ,1	3-4	0
7	Spatial structure and dispersion of the 16/17 April 2010 volcanic ash cloud over Germany		7
6	Influences of the 2010 Eyjafjallajökull volcanic plume on air quality in the northern Alpine region		8
5	Source apportionment and the role of meteorological conditions in the assessment of air pollution exposure due to urban emissions		8
4	In-situ airborne measurements of atmospheric and sea surface parameters related to offshore wind parks in the German Bight		2
3	The Role of Atmospheric Stability and Turbulence in Offshore Wind-Farm Wakes in the German Bight. <i>Boundary-Layer Meteorology</i> ,1	3-4	4
2	Detection of pollution transport events southeast of Mexico City using ground-based visible spectroscopy measurements of nitrogen dioxide		1
1	The five main influencing factors on lidar errors in complex terrain		2