

Martin Weissmann

List of Publications by Citations

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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.

43
papers

1,321
citations

21
h-index

36
g-index

55
ext. papers

1,547
ext. citations

3.8
avg, IF

4.47
L-index

#	Paper	IF	Citations
43	THE TERRAIN-INDUCED ROTOR EXPERIMENT. <i>Bulletin of the American Meteorological Society</i> , 2008 , 89, 1513-1534	6.1	157
42	Survey of data assimilation methods for convective-scale numerical weather prediction at operational centres. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 1218-1256	6.4	125
41	Lidar-Measured Wind Profiles: The Missing Link in the Global Observing System. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 543-564	6.1	87
40	The Influence of Assimilating Dropsonde Data on Typhoon Track and Midlatitude Forecasts. <i>Monthly Weather Review</i> , 2011 , 139, 908-920	2.4	72
39	Gap flows: Results from the Mesoscale Alpine Programme. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 881-896	6.4	68
38	The Impact of Dropwindsonde Observations on Typhoon Track Forecasts in DOTSTAR and T-PARC. <i>Monthly Weather Review</i> , 2011 , 139, 1728-1743	2.4	60
37	Targeted Observations with an Airborne Wind Lidar. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005 , 22, 1706-1719	2	57
36	The Alpine MountainBlain Circulation: Airborne Doppler Lidar Measurements and Numerical Simulations. <i>Monthly Weather Review</i> , 2005 , 133, 3095-3109	2.4	55
35	The impact of Typhoon Jangmi (2008) on the midlatitude flow. Part I: Upper-level ridgebuilding and modification of the jet. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 2148-2164	6.4	50
34	HErZ: The German Hans-Ertel Centre for Weather Research. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 1057-1068	6.1	48
33	Observations and Numerical Simulations of Subrotor Vortices during T-REX. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 1229-1249	2.1	42
32	Coplanar Doppler Lidar Retrieval of Rotors from T-REX. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 713-729	2.1	41
31	Sensitivity of Typhoon Forecasts to Different Subsets of Targeted Dropsonde Observations. <i>Monthly Weather Review</i> , 2010 , 138, 2664-2680	2.4	38
30	Impact of airborne Doppler lidar observations on ECMWF forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 133, 107-116	6.4	36
29	Initial phase of the Hans-Ertel Centre for Weather Research – A virtual centre at the interface of basic and applied weather and climate research. <i>Meteorologische Zeitschrift</i> , 2014 , 23, 193-208	3.1	34
28	Observation Operator for Visible and Near-Infrared Satellite Reflectances. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014 , 31, 1216-1233	2	29
27	Error model for the assimilation of cloud-affected infrared satellite observations in an ensemble data assimilation system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 1797-1808	6.4	29

26	Influence of airborne Doppler wind lidar profiles near Typhoon Sinlaku on ECMWF and NOGAPS forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 118-130	6.4	25
25	Three-Dimensional Wind Retrieval: Application of MUSCAT to Dual-Doppler Lidar. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009 , 26, 635-646	2	22
24	Experimental assimilation of DIAL water vapour observations in the ECMWF global model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011 , 137, 1532-1546	6.4	21
23	Observations of the Temporal Evolution and Spatial Structure of the Gap Flow in the Wipp Valley on 2 and 3 October 1999. <i>Monthly Weather Review</i> , 2004 , 132, 2684-2697	2.4	21
22	Validation of Aeolus winds using radiosonde observations and numerical weather prediction model equivalents. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2167-2183	4	19
21	Impact of radar data assimilation and orography on predictability of deep convection. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019 , 145, 117-130	6.4	19
20	Observation impact in a convective-scale localized ensemble transform Kalman filter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 2672-2679	6.4	17
19	The importance of appropriate verification metrics for the assessment of observation impact in a convection-permitting modelling system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 1667-1680	6.4	15
18	High-Resolution Doppler Lidar Observations of Transient Downslope Flows and Rotors. <i>Monthly Weather Review</i> , 2013 , 141, 3257-3272	2.4	15
17	Predictability of Deep Convection in Idealized and Operational Forecasts: Effects of Radar Data Assimilation, Orography, and Synoptic Weather Regime. <i>Monthly Weather Review</i> , 2020 , 148, 63-81	2.4	15
16	A convective-scale 1,000-member ensemble simulation and potential applications. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 , 146, 1423-1442	6.4	12
15	Ensemble-based approximation of observation impact using an observation-based verification metric. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2016 , 68, 27885	2	12
14	Height Correction of Atmospheric Motion Vectors Using Satellite Lidar Observations from CALIPSO. <i>Journal of Applied Meteorology and Climatology</i> , 2014 , 53, 1809-1819	2.7	12
13	Efficient Methods to Account for Cloud-Top Inclination and Cloud Overlap in Synthetic Visible Satellite Images. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018 , 35, 665-685	2	11
12	Height Correction of Atmospheric Motion Vectors Using Airborne Lidar Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2013 , 52, 1868-1877	2.7	11
11	Assimilating visible satellite images for convective-scale numerical weather prediction: A case-study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020 , 146, 3165-3186	6.4	7
10	The Impact of Dropsonde and Extra Radiosonde Observations during NAWDEX in Autumn 2016. <i>Monthly Weather Review</i> , 2020 , 148, 809-824	2.4	7
9	Vorticity from Line-of-Sight Lidar Velocity Scans. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009 , 26, 2683-2690	2	6

8	First Results from the German Cal/Val Activities for Aeolus. <i>EPJ Web of Conferences</i> , 2020 , 237, 01008	0.3	6
7	Sampling Error Correction Evaluated Using a Convective-Scale 1000-Member Ensemble. <i>Monthly Weather Review</i> , 2019 , 148, 1229-1249	2.4	6
6	Site-specific assessment of mechanical loads on photovoltaic modules from meteorological reanalysis data. <i>Solar Energy</i> , 2019 , 188, 1134-1145	6.8	4
5	Assimilating Visible and Infrared Radiances in Idealized Simulations of Deep Convection. <i>Monthly Weather Review</i> , 2020 , 148, 4357-4375	2.4	3
4	Lidar-Based Height Correction for the Assimilation of Atmospheric Motion Vectors. <i>Journal of Applied Meteorology and Climatology</i> , 2016 , 55, 2211-2227	2.7	3
3	Assimilation of SEVIRI Water Vapor Channels With an Ensemble Kalman Filter on the Convective Scale. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	1
2	Key analysis errors and airborne wind lidar observations. <i>Meteorologische Zeitschrift</i> , 2007 , 16, 709-721	3.1	1
1	Understanding the model representation of clouds based on visible and infrared satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12273-12290	6.8	1