

Clemens J Simmer

List of Publications by Year in descending order

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189
papers

6,522
citations

53794

45
h-index

85541

71
g-index

209
all docs

209
docs citations

209
times ranked

6037
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation and transfer of internal variability in a regional climate model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 22485.	1.7	7
2	Improved understanding of an extreme rainfall event at the Himalayan foothills â€“ a case study using COSMO. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 26031.	1.7	19
3	Grid resolution dependency of land surface heterogeneity effects on boundaryâ€‘layer structure. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 141-158.	2.7	3
4	Evaluation of modelled summertime convective storms using polarimetric radar observations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7593-7618.	4.9	6
5	Multiâ€‘objective downscaling of precipitation time series by genetic programming. <i>International Journal of Climatology</i> , 2021, 41, 6162-6182.	3.5	2
6	Polarimetric radar-based methods for evaluation of hydrometeor mixtures in numerical weather prediction models. , 2021, , .		3
7	Storm Cell Observation And Prediction Using Polarimetric Weather Radars. , 2021, , .		1
8	Validation of Wind Fields Retrieved by Dual-Doppler Techniques Using a Vertically Pointing Radar. , 2021, , .		0
9	Dual-polarimetric radar estimators of liquid water content over Germany. <i>Meteorologische Zeitschrift</i> , 2021, 30, 237-249.	1.0	5
10	Assessing the benefits of specific attenuation for quantitative precipitation estimation with a C-band radar network. <i>Journal of Hydrometeorology</i> , 2021, , .	1.9	6
11	Near-Realtime Quantitative Precipitation Estimation and Prediction (RealPEP). <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1591-E1596.	3.3	5
12	Presentation and discussion of the high-resolution atmosphereâ€‘land-surfaceâ€‘subsurface simulation dataset of the simulated Neckar catchment for the period 2007â€‘2015. <i>Earth System Science Data</i> , 2021, 13, 4437-4464.	9.9	4
13	Overview: Fusion of radar polarimetry and numerical atmospheric modelling towards an improved understanding of cloud and precipitation processes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17291-17314.	4.9	18
14	Effects of land surface inhomogeneity on convection-permitting WRF simulations over central Europe. <i>Meteorology and Atmospheric Physics</i> , 2020, 132, 53-69.	2.0	12
15	Evaluation and projected changes of precipitation statistics in convection-permitting WRF climate simulations over Central Europe. <i>Climate Dynamics</i> , 2020, 55, 325-341.	3.8	59
16	Multimodel Ensemble Forecasts of Precipitation Based on an Object-Based Diagnostic Evaluation. <i>Monthly Weather Review</i> , 2020, 148, 2591-2606.	1.4	22
17	Required sampling density of ground-based soil moisture and brightness temperature observations for calibration and validation of L-band satellite observations based on a virtual reality. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1957-1973.	4.9	1
18	Modeled Land Atmosphere Coupling Response to Soil Moisture Changes with Different Generations of Land Surface Models. <i>Water (Switzerland)</i> , 2020, 12, 46.	2.7	5

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19	Comparison between precipitation estimates of ground-based weather radar composites and GPM's DPR rainfall product over Germany. <i>Meteorologische Zeitschrift</i> , 2020, 29, 451-466.	1.0	11
20	The Added Value of Large-eddy and Storm-resolving Models for Simulating Clouds and Precipitation. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 395-435.	1.8	93
21	Comparing Different Methods of Radar Data Display for Microphysical Studies in Precipitation Systems and Weather Nowcasting. , 2019, , .		0
22	Representation of Precipitation Characteristics and Extremes in Regional Reanalyses and Satellite- and Gauge-Based Estimates over Western and Central Europe. <i>Journal of Hydrometeorology</i> , 2019, 20, 1123-1145.	1.9	18
23	Polarimetric Radar Variables in the Layers of Melting and Dendritic Growth at X Bandâ€”Implications for a Nowcasting Strategy in Stratiform Rain. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 2497-2522.	1.5	26
24	Gamma Drop Size Distribution Assumptions in Bulk Model Parameterizations and Radar Polarimetry and Their Impact on Polarimetric Radar Moments. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 467-478.	1.5	6
25	Improvement of surface runoff in the hydrological model ParFlow by a scale-consistent river parameterization. <i>Hydrological Processes</i> , 2019, 33, 2006-2019.	2.6	7
26	Climate variations over the southern Altai Mountains and Dzungarian Basin region, central Asia, since 1580 CE. <i>International Journal of Climatology</i> , 2019, 39, 4543-4558.	3.5	11
27	Incorporating a root water uptake model based on the hydraulic architecture approach in terrestrial systems simulations. <i>Agricultural and Forest Meteorology</i> , 2019, 269-270, 28-45.	4.8	28
28	A Comprehensive Distributed Hydrological Modeling Intercomparison to Support Process Representation and Data Collection Strategies. <i>Water Resources Research</i> , 2019, 55, 990-1010.	4.2	34
29	The TRIPLE-frequency and Polarimetric radar Experiment for improving process observations of winter precipitation. <i>Earth System Science Data</i> , 2019, 11, 845-863.	9.9	40
30	Effects of horizontal grid resolution on evapotranspiration partitioning using TerrSysMP. <i>Journal of Hydrology</i> , 2018, 557, 910-915.	5.4	20
31	Cross-disciplinary links in environmental systems science: Current state and claimed needs identified in a meta-review of process models. <i>Science of the Total Environment</i> , 2018, 622-623, 954-973.	8.0	12
32	Remote sensing of plant-water relations: An overview and future perspectives. <i>Journal of Plant Physiology</i> , 2018, 227, 3-19.	3.5	70
33	Quantifying the Impact of Subsurface Land Surface Physical Processes on the Predictive Skill of Subseasonal Mesoscale Atmospheric Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9131-9151.	3.3	18
34	Introduction of an Experimental Terrestrial Forecasting/Monitoring System at Regional to Continental Scales Based on the Terrestrial Systems Modeling Platform (v1.1.0). <i>Water (Switzerland)</i> , 2018, 10, 1697.	2.7	17
35	Dual-Doppler and Polarimetric Radar Analysis of Hail Events in Germany. , 2018, , .		1
36	Severe Hail Detection: Hydrometeor Classification for Polarimetric C-band Radars Using Fuzzy-Logic and T-matrix Scattering Simulations. , 2018, , .		3

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37	Effects of a gamma DSD with variable shape parameter on polarimetric radar moments. , 2018, , .		0
38	Synergy of GPM and ground-based radar observations for precipitation estimation and detection of microphysical processes. , 2018, , .		0
39	Polarimetric Radar Observations Meet Atmospheric Modelling. , 2018, , .		3
40	A low-cost mechanically-steered weather radar concept. , 2018, , .		2
41	Deterministic and stochastic precipitation downscaling using multi-objective genetic programming. , 2018, , .		3
42	Connection Between Root Zone Soil Moisture and Surface Energy Flux Partitioning Using Modeling, Observations, and Data Assimilation for a Temperate Grassland Site in Germany. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2839-2862.	3.0	20
43	Multisensor Characterization of Mammatus. Monthly Weather Review, 2017, 145, 235-251.	1.4	4
44	Estimation of Depolarization Ratio Using Weather Radars with Simultaneous Transmission/Reception. Journal of Applied Meteorology and Climatology, 2017, 56, 1797-1816.	1.5	20
45	Coupling Groundwater, Vegetation, and Atmospheric Processes: A Comparison of Two Integrated Models. Journal of Hydrometeorology, 2017, 18, 1489-1511.	1.9	26
46	Modelling convectively induced secondary circulations in the <i>terra incognita</i> with <sc>TerrSysMP</sc>. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2352-2361.	2.7	9
47	Dynamical downscaling with COSMO and COSMO-CLM in the Sino-Mongolian Altai region. Meteorology and Atmospheric Physics, 2017, 129, 211-228.	2.0	1
48	Landâ€‘atmosphere coupling in EUROâ€‘CORDEX evaluation experiments. Journal of Geophysical Research D: Atmospheres, 2017, 122, 79-103.	3.3	84
49	Largeâ€‘eddy simulations over Germany using ICON: a comprehensive evaluation. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 69-100.	2.7	175
50	Impact of surface-heterogeneity on atmosphere and land-surface interactions. Environmental Modelling and Software, 2017, 88, 35-47.	4.5	10
51	Downscaling near-surface atmospheric fields with multi-objective genetic programming. , 2017, , .		1
52	The HD(CP)<sup>2</sup> Observational Prototype Experiment (HOPE) â€‘ an overview. Atmospheric Chemistry and Physics, 2017, 17, 4887-4914.	4.9	67
53	Towards nowcasting of winter precipitation: The Black Ice Event in Berlin 2014. Meteorologische Zeitschrift, 2017, 26, 147-160.	1.0	3
54	On the role of patterns in understanding the functioning of soil-vegetation-atmosphere systems. Journal of Hydrology, 2016, 542, 63-86.	5.4	39

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55	Downscaling near-surface atmospheric fields with multi-objective Genetic Programming. <i>Environmental Modelling and Software</i> , 2016, 84, 85-98.	4.5	13
56	Assimilation of 3D radar reflectivities with an ensemble Kalman filter on the convective scale. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 1490-1504.	2.7	66
57	Radar Observation of Evaporation and Implications for Quantitative Precipitation and Cooling Rate Estimation. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 1779-1792.	1.3	28
58	Evaluation of modeled high resolution virtual brightness temperatures compared to space-borne observations for the neckar catchment. , 2016, , .		2
59	Precipitation and microphysical processes observed by three polarimetric X-band radars and ground-based instrumentation during HOPE. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7105-7116.	4.9	15
60	Cloud photogrammetry with dense stereo for fisheye cameras. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14231-14248.	4.9	21
61	HERZ: The German Hans-Ertel Centre for Weather Research. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1057-1068.	3.3	55
62	Quasi-Vertical Profiles—A New Way to Look at Polarimetric Radar Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 551-562.	1.3	112
63	Monitoring and Modeling the Terrestrial System from Pores to Catchments: The Transregional Collaborative Research Center on Patterns in the Soil—“Vegetation—Atmosphere System. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1765-1787.	3.3	80
64	JOYCE: Jülich Observatory for Cloud Evolution. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1157-1174.	3.3	87
65	Polarization signatures and brightness temperatures caused by horizontally oriented snow particles at microwave bands: Effects of atmospheric absorption. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6145-6160.	3.3	18
66	Trends in Water Level and Flooding in Dhaka, Bangladesh and Their Impact on Mortality. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 1196-1215.	2.6	17
67	Impacts of grid resolution on surface energy fluxes simulated with an integrated surface-groundwater flow model. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4317-4326.	4.9	35
68	The millennium flood of July 1342 revisited. <i>Catena</i> , 2015, 130, 82-94.	5.0	22
69	Evaluating the Influence of Plant-Specific Physiological Parameterizations on the Partitioning of Land Surface Energy Fluxes. <i>Journal of Hydrometeorology</i> , 2015, 16, 517-533.	1.9	24
70	Use of Specific Attenuation for Rainfall Measurement at X-Band Radar Wavelengths. Part II: Rainfall Estimates and Comparison with Rain Gauges. <i>Journal of Hydrometeorology</i> , 2015, 16, 503-516.	1.9	49
71	Use of Specific Attenuation for Rainfall Measurement at X-Band Radar Wavelengths. Part I: Radar Calibration and Partial Beam Blockage Estimation. <i>Journal of Hydrometeorology</i> , 2015, 16, 487-502.	1.9	51
72	Potential Utilization of Specific Attenuation for Rainfall Estimation, Mitigation of Partial Beam Blockage, and Radar Networking. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 599-619.	1.3	135

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73	Investigations of Backscatter Differential Phase in the Melting Layer. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 2344-2359.	1.5	47
74	A Scale-Consistent Terrestrial Systems Modeling Platform Based on COSMO, CLM, and ParFlow. <i>Monthly Weather Review</i> , 2014, 142, 3466-3483.	1.4	140
75	Using Microwave Backhaul Links to Optimize the Performance of Algorithms for Rainfall Estimation and Attenuation Correction. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1748-1760.	1.3	26
76	Precipitation Variability and Extremes in Central Europe: New View from STAMMEX Results. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 995-1002.	3.3	31
77	Evaluation of Satellite-Retrieved Extreme Precipitation over Europe using Gauge Observations. <i>Journal of Climate</i> , 2014, 27, 607-623.	3.2	42
78	A statistical retrieval algorithm for root zone soil moisture. <i>Theoretical and Applied Climatology</i> , 2014, 118, 675-694.	2.8	0
79	A sequential ensemble prediction system at convection-permitting scales. <i>Meteorology and Atmospheric Physics</i> , 2014, 123, 17-31.	2.0	6
80	Estimation of the refractive index structure parameter from single-level daytime routine weather data. <i>Applied Optics</i> , 2014, 53, 5944.	1.8	7
81	Detection of Entrainment Influences on Surface-Layer Measurements and Extension of Monin-Obukhov Similarity Theory. <i>Boundary-Layer Meteorology</i> , 2014, 152, 19-44.	2.3	32
82	Regional dynamical downscaling with CCLM over East Asia. <i>Meteorology and Atmospheric Physics</i> , 2013, 121, 39-53.	2.0	50
83	On correcting precipitation as simulated by the regional climate model COSMO-CLM with daily rain gauge observations. <i>Meteorology and Atmospheric Physics</i> , 2013, 119, 31-42.	2.0	7
84	Changes in the Duration of European Wet and Dry Spells during the Last 60 Years. <i>Journal of Climate</i> , 2013, 26, 2022-2047.	3.2	159
85	Regional centennial precipitation variability over Germany from extended observation records. <i>International Journal of Climatology</i> , 2013, 33, 2167-2184.	3.5	18
86	On the feasibility to combine observations from multiwavelength radar and the multi-frequency radiometer ADMIRARI to retrieve precipitating cloud parameters. , 2013, , .		0
87	The contribution of the microwave radiometer ADMIRARI to the NASA GPM ground validation field experiment. , 2013, , .		0
88	Pattern-based statistical downscaling of East Asian Summer Monsoon precipitation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2013, 65, 19749.	1.7	6
89	Backscatter Differential Phase Estimation and Variability. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2529-2548.	1.5	60
90	Papers from the DACH 2010 conference at Bonn. <i>Meteorologische Zeitschrift</i> , 2012, 21, 211-212.	1.0	0

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91	Partitioning of cloud water and rainwater content by ground-based observations with the Advanced Microwave Radiometer for Rain Identification (ADMIRARI) in synergy with a micro rain radar. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
92	Application of an adaptive radiative transfer scheme in a mesoscale numerical weather prediction model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 91-102.	2.7	6
93	Disaggregation of screen-level variables in a numerical weather prediction model with an explicit simulation of subgrid-scale land-surface heterogeneity. <i>Meteorology and Atmospheric Physics</i> , 2012, 116, 81-94.	2.0	17
94	An object-based approach for areal rainfall estimation and validation of atmospheric models. <i>Meteorology and Atmospheric Physics</i> , 2012, 115, 139-151.	2.0	5
95	Understanding three-dimensional effects in polarized observations with the ground-based ADMIRARI radiometer during the CHUVA campaign. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	7
96	Must quality estimation based on climate data in the Upper Moselle region. <i>Meteorologische Zeitschrift</i> , 2011, 20, 479-486.	1.0	5
97	Climatic conditions and their impact on viticulture in the Upper Moselle region. <i>Climatic Change</i> , 2011, 109, 349-373.	3.6	59
98	Observation of snowfall with a low-power FM-CW K-band radar (Micro Rain Radar). <i>Meteorology and Atmospheric Physics</i> , 2011, 113, 75-87.	2.0	58
99	Polarimetric Estimates of a 1-Month Accumulation of Light Rain with a 3-cm Wavelength Radar. <i>Journal of Hydrometeorology</i> , 2011, 12, 1024-1039.	1.9	20
100	Attenuation and Differential Attenuation of 5-cm-Wavelength Radiation in Melting Hail. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 59-76.	1.5	24
101	Uncertainties in Weather Forecast "Reasons and Handling.", 2011, , 11-33.		2
102	Multiple-scattering in radar systems: A review. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 917-947.	2.3	68
103	A new algorithm for the downscaling of cloud fields. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 91-106.	2.7	14
104	A downscaling scheme for atmospheric variables to drive soil-vegetation-atmosphere transfer models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010, 62, 242-258.	1.6	22
105	Characterization of Precipitating Clouds by Ground-Based Measurements with the Triple-Frequency Polarized Microwave Radiometer ADMIRARI. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 394-414.	1.5	20
106	A Rain-Rate Retrieval Algorithm for Attenuated Radar Measurements. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 381-393.	1.5	13
107	PARSIVEL Snow Observations: A Critical Assessment. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 333-344.	1.3	203
108	Patterns in Soil-Vegetation-Atmosphere Systems: Monitoring, Modeling, and Data Assimilation. <i>Vadose Zone Journal</i> , 2010, 9, 821-827.	2.2	47

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109	Proof of concept of regional scale hydrologic simulations at hydrologic resolution utilizing massively parallel computer resources. <i>Water Resources Research</i> , 2010, 46, .	4.2	178
110	Changing structure of European precipitation: Longer wet periods leading to more abundant rainfalls. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	198
111	Improving Estimates of Heavy and Extreme Precipitation Using Daily Records from European Rain Gauges. <i>Journal of Hydrometeorology</i> , 2009, 10, 701-716.	1.9	106
112	Toward the Use of Integral Radar Volume Descriptors for Quantitative Areal Precipitation Estimation: Results from Pseudoradar Observations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1798-1813.	1.3	5
113	Rain Observations by a Multifrequency Dual-Polarized Radiometer. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 354-358.	3.1	22
114	Multiresolution analysis of the temporal variance and correlation of transmittance and reflectance of an atmospheric column. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	33
115	Aspects of Regional Climate Modelling with Focus on Precipitation. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 87-94.	0.2	0
116	Influence of Drainage Parameterization and Precipitation Analysis on Discharge Simulation in the Sieg River Catchment. <i>Lecture Notes in Earth Sciences</i> , 2009, , 101-115.	0.5	0
117	Spectral aerosol optical properties from AERONET Sun-photometric measurements over West Africa. <i>Atmospheric Research</i> , 2008, 88, 89-107.	4.1	54
118	How Does Multiple Scattering Affect the Spaceborne W-Band Radar Measurements at Ranges Close to and Crossing the Sea-Surface Range?. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1644-1651.	6.3	29
119	Seasonally dependent changes of precipitation extremes over Germany since 1950 from a very dense observational network. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	105
120	Identifying multiple scattering affected profiles in CloudSat observations over the oceans. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
121	RESEARCH CAMPAIGN: The Convective and Orographically Induced Precipitation Study. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 1477-1486.	3.3	194
122	Multiple Scattering Effects in Pulsed Radar Systems: An Intercomparison Study. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 1556-1567.	1.3	13
123	Evaluation of daily precipitation characteristics in the CLM and their sensitivity to parameterizations. <i>Meteorologische Zeitschrift</i> , 2008, 17, 407-419.	1.0	41
124	Sensitivity of summer precipitation simulated by the CLM with respect to initial and boundary conditions. <i>Meteorologische Zeitschrift</i> , 2008, 17, 421-431.	1.0	8
125	Validation of TERRA-ML with discharge measurements. <i>Meteorologische Zeitschrift</i> , 2008, 17, 763-773.	1.0	47
126	Assimilation of radar and satellite data in mesoscale models: A physical initialization scheme. <i>Meteorologische Zeitschrift</i> , 2008, 17, 887-902.	1.0	17

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127	Streamflow simulations reveal the impact of the soil parameterization. Meteorologische Zeitschrift, 2008, 17, 751-762.	1.0	16
128	Evaluation and calibration of a microwave emission model using the Southern Great Plains 1999 experiment data set. Meteorologische Zeitschrift, 2007, 16, 149-158.	1.0	0
129	Evaluation of radar multiple scattering effects in Cloudsat configuration. Atmospheric Chemistry and Physics, 2007, 7, 1719-1730.	4.9	42
130	Two adaptive radiative transfer schemes for numerical weather prediction models. Atmospheric Chemistry and Physics, 2007, 7, 5659-5674.	4.9	11
131	Microwave radiative transfer intercomparison study for 3-D dichroic media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 105, 55-67.	2.3	64
132	Explaining the polarization signal from rain dichroic effects. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 105, 84-101.	2.3	9
133	Path length distributions for solar photons under cloudy skies: Comparison of measured first and second moments with predictions from classical and anomalous diffusion theories. Journal of Geophysical Research, 2006, 111, .	3.3	23
134	A Stochastic Iterative Amplitude Adjusted Fourier Transform algorithm with improved accuracy. Nonlinear Processes in Geophysics, 2006, 13, 321-328.	1.3	58
135	Statistical characteristics of surrogate data based on geophysical measurements. Nonlinear Processes in Geophysics, 2006, 13, 449-466.	1.3	49
136	Evaluation of Radar Multiple-Scattering Effects from a GPM Perspective. Part II: Model Results. Journal of Applied Meteorology and Climatology, 2006, 45, 1648-1664.	1.5	15
137	Three-dimensional effects in polarization signatures as observed from precipitating clouds by low frequency ground-based microwave radiometers. Atmospheric Chemistry and Physics, 2006, 6, 4383-4394.	4.9	7
138	Effects of the Near-Surface Soil Moisture Profile on the Assimilation of L-band Microwave Brightness Temperature. Journal of Hydrometeorology, 2006, 7, 433-442.	1.9	98
139	Surrogate cloud fields generated with the iterative amplitude adapted Fourier transform algorithm. Tellus, Series A: Dynamic Meteorology and Oceanography, 2006, 58, 104-120.	1.7	50
140	Improved Representation of Land-surface Heterogeneity in a Non-hydrostatic Numerical Weather Prediction Model. Boundary-Layer Meteorology, 2006, 121, 153-174.	2.3	53
141	Evaporation Over A Heterogeneous Land Surface. Bulletin of the American Meteorological Society, 2006, 87, 775-786.	3.3	50
142	Evaluation of Radar Multiple-Scattering Effects from a GPM Perspective. Part I: Model Description and Validation. Journal of Applied Meteorology and Climatology, 2006, 45, 1634-1647.	1.5	22
143	Emission and scattering by clouds and precipitation. , 2006, , 101-224.		6
144	Validation of a Physical Retrieval Scheme of Solar Surface Irradiances from Narrowband Satellite Radiances. Journal of Applied Meteorology and Climatology, 2005, 44, 1453-1466.	1.7	29

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145	A network suitable microwave radiometer for operational monitoring of the cloudy atmosphere. Atmospheric Research, 2005, 75, 183-200.	4.1	343
146	On the robustness of the estimates of centennial-scale variability in heavy precipitation from station data over Europe. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	57
147	Multiple scattering effects due to hydrometeors on precipitation radar systems. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	25
148	Derivation of a root zone soil moisture algorithm and its application to validate model data. Hydrology Research, 2005, 36, 335-348.	2.7	1
149	Analysis of extreme precipitation over Europe from different reanalyses: a comparative assessment. Global and Planetary Change, 2004, 44, 129-161.	3.5	114
150	An Integrated Approach toward Retrieving Physically Consistent Profiles of Temperature, Humidity, and Cloud Liquid Water. Journal of Applied Meteorology and Climatology, 2004, 43, 1295-1307.	1.7	81
151	THE BALTEX BRIDGE CAMPAIGN: An Integrated Approach for a Better Understanding of Clouds. Bulletin of the American Meteorological Society, 2004, 85, 1565-1584.	3.3	39
152	On precipitation induced polarization of microwave radiation measured from space. Meteorologische Zeitschrift, 2002, 11, 49-60.	1.0	9
153	The Influence of Hydrologic Modeling on the Predicted Local Weather: Two-Way Coupling of a Mesoscale Weather Prediction Model and a Land Surface Hydrologic Model. Journal of Hydrometeorology, 2002, 3, 505-523.	1.9	107
154	Discrimination of cloud and rain liquid water path by groundbased polarized microwave radiometry. Geophysical Research Letters, 2001, 28, 267-270.	4.0	31
155	Microwave Radiometer for Cloud Cartography: A 22-channel ground-based microwave radiometer for atmospheric research. Radio Science, 2001, 36, 621-638.	1.6	46
156	Interpretation of Polarization Features in Ground-Based Microwave Observations as Caused by Horizontally Aligned Oblate Raindrops. Journal of Applied Meteorology and Climatology, 2001, 40, 1918-1932.	1.7	22
157	An integrated approach for the determination of regionale vapotranspiration using mesoscale modelling, remote sensing and boundary layer measurements. Meteorology and Atmospheric Physics, 2001, 76, 83-105.	2.0	13
158	Profiling Cloud Liquid Water by Combining Active and Passive Microwave Measurements with Cloud Model Statistics. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1354-1366.	1.3	50
159	Assimilation of radar data in mesoscale models: Physical initialization and latent heat nudging. Physics and Chemistry of the Earth, 2000, 25, 1237-1242.	0.3	24
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