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List of Publications by Year
in descending order

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		7561	8384
202	23,968	77	147
papers	citations	h-index	g-index

255	255	255	17507
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Climate Scenarios for Switzerland CH2018 â€“ Approach and Implications. Climate Services, 2022, 26, 100288.	1.0	12
2	An ensemble-based statistical methodology to detect differences in weather and climate model executables. Geoscientific Model Development, 2022, 15, 3183-3203.	1.3	2
3	Anthropogenic intensification of short-duration rainfall extremes. Nature Reviews Earth & Environment, 2021, 2, 107-122.	12.2	279
4	Inter-model Variability in Convection-Resolving Simulations of Subtropical Marine Low Clouds. Journal of the Meteorological Society of Japan, 2021, 99, 1271-1295.	0.7	8
5	Extreme Subâ€Hourly Precipitation Intensities Scale Close to the Clausiusâ€Clapeyron Rate Over Europe. Geophysical Research Letters, 2021, 48, e2020GL089506.	1.5	25
6	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution part 2: historical and future simulations of precipitation. Climate Dynamics, 2021, 56, 3581-3602.	1.7	101
7	Towards advancing scientific knowledge of climate change impacts on short-duration rainfall extremes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190542.	1.6	56
8	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. Climate Dynamics, 2021, 57, 275-302.	1.7	114
9	Model intercomparison of COSMO 5.0 and IFS 45r1 at kilometer-scale grid spacing. Geoscientific Model Development, 2021, 14, 4617-4639.	1.3	15
10	COSMO-CLM regional climate simulations in the Coordinated Regional Climate Downscaling Experiment (CORDEX) framework: a review. Geoscientific Model Development, 2021, 14, 5125-5154.	1.3	55
11	A Numerical Analysis of Six Physicsâ€Dynamics Coupling Schemes for Atmospheric Models. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002377.	1.3	5
12	Future summer warming pattern under climate change is affected by lapse-rate changes. Weather and Climate Dynamics, 2021, 2, 1093-1110.	1.2	3
13	Pan-European climate at convection-permitting scale: a model intercomparison study. Climate Dynamics, 2020, 55, 35-59.	1.7	94
14	A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean. Climate Dynamics, 2020, 55, 3-34.	1.7	176
15	Analysis of Alpine precipitation extremes using generalized extreme value theory in convection-resolving climate simulations. Climate Dynamics, 2020, 55, 61-75.	1.7	42
16	Convergence behavior of idealized convection-resolving simulations of summertime deep moist convection over land. Climate Dynamics, 2020, 55, 215-234.	1.7	17
17	Climate Models Permit Convection at Much Coarser Resolutions Than Previously Considered. Journal of Climate, 2020, 33, 1915-1933.	1.2	54
18	CH2018 â€“ National climate scenarios for Switzerland: How to construct consistent multi-model projections from ensembles of opportunity. Climate Services, 2020, 20, 100196.	1.0	19

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19	Kilometer-Scale Climate Models: Prospects and Challenges. Bulletin of the American Meteorological Society, 2020, 101, E567-E587.	1.7	96
20	The Influence of the Resolution of Orography on the Simulation of Orographic Moist Convection. Monthly Weather Review, 2020, 148, 2391-2410.	0.5	12
21	European daily precipitation according to EURO-CORDEX regional climate models (RCMs) and high-resolution global climate models (GCMs) from the High-Resolution Model Intercomparison Project (HighResMIP). Geoscientific Model Development, 2020, 13, 5485-5506.	1.3	29
22	Attribution of precipitation to cyclones and fronts over Europe in a kilometer-scale regional climate simulation. Weather and Climate Dynamics, 2020, 1, 675-699.	1.2	15
23	Bulk and structural convergence at convectionâ€resolving scales in realâ€case simulations of summertime moist convection over land. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1427-1443.	1.0	24
24	Causes of future Mediterranean precipitation decline depend on the season. Environmental Research Letters, 2019, 14, 114017.	2.2	65
25	Projections of Alpine Snow-Cover in a High-Resolution Climate Simulation. Atmosphere, 2019, 10, 463.	1.0	24
26	Extraction and Visual Analysis of Potential Vorticity Banners around the Alps. IEEE Transactions on Visualization and Computer Graphics, 2019, 26, 1-1.	2.9	7
27	Subseasonal hydrometeorological ensemble predictions in small- and medium-sized mountainous catchments: benefits of the NWP approach. Hydrology and Earth System Sciences, 2019, 23, 493-513.	1.9	22
28	Mountain Volume Control on Deep-Convective Rain Amount during Episodes of Weak Synoptic Forcing. Journals of the Atmospheric Sciences, 2019, 76, 605-626.	0.6	7
29	Crossing Multiple Gray Zones in the Transition from Mesoscale to Microscale Simulation over Complex Terrain. Atmosphere, 2019, 10, 274.	1.0	66
30	Clouds in Convectionâ€Resolving Climate Simulations Over Europe. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3849-3870.	1.2	42
31	Barotropic Instability of a Cyclone Core at Kilometerâ€Scale Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 3390-3402.	1.3	4
32	The cloud-free global energy balance and inferred cloud radiative effects: an assessment based on direct observations and climate models. Climate Dynamics, 2019, 52, 4787-4812.	1.7	39
33	Reflecting on the Goal and Baseline for Exascale Computing: A Roadmap Based on Weather and Climate Simulations. Computing in Science and Engineering, 2019, 21, 30-41.	1.2	47
34	The Role of Hadley Circulation and Lapse-Rate Changes for the Future European Summer Climate. Journal of Climate, 2019, 32, 385-404.	1.2	50
35	Near-surface wind variability over the broader Adriatic region: insights from an ensemble of regional climate models. Climate Dynamics, 2018, 50, 4455-4480.	1.7	46
36	The sensitivity of Alpine summer convection to surrogate climate change: an intercomparison between convection-parameterizing and convection-resolving models. Atmospheric Chemistry and Physics, 2018, 18, 5253-5264.	1.9	15

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37	Near-global climate simulation at 1â€‰km resolution: establishing a performance baseline on 4888â€‰GPUs with COSMO 5.0. Geoscientific Model Development, 2018, 11, 1665-1681.	1.3	110
38	Bias patterns and climate change signals in GCM-RCM model chains. Environmental Research Letters, 2018, 13, 074017.	2.2	98
39	Changing seasonality of moderate and extreme precipitation events in the Alps. Natural Hazards and Earth System Sciences, 2018, 18, 2047-2056.	1.5	40
40	Future snowfall in the Alps: projections based on the EURO-CORDEX regional climate models. Cryosphere, 2018, 12, 1-24.	1.5	75
41	European climate change at global mean temperature increases of 1.5 and 2â€¯Â°C above pre-industrial conditions as simulated by the EURO-CORDEX regional climate models. Earth System Dynamics, 2018, 9, 459-478.	2.7	114
42	A Groundwater and Runoff Formulation for Weather and Climate Models. Journal of Advances in Modeling Earth Systems, 2018, 10, 1809-1832.	1.3	32
43	Skill of Subseasonal Forecasts in Europe: Effect of Bias Correction and Downscaling Using Surface Observations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7999-8016.	1.2	45
44	The Alpine snow-albedo feedback in regional climate models. Climate Dynamics, 2017, 48, 1109-1124.	1.7	35
45	New estimates of the Earth radiation budget under cloud-free conditions and cloud radiative effects. AIP Conference Proceedings, 2017, , .	0.3	3
46	Projected changes in surface solar radiation in CMIP5 global climate models and in EURO-CORDEX regional climate models for Europe. Climate Dynamics, 2017, 49, 2665-2683.	1.7	82
47	Climate goals and computing the future of clouds. Nature Climate Change, 2017, 7, 3-5.	8.1	177
48	Projections of Future Precipitation Extremes Over Europe: A Multimodel Assessment of Climate Simulations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,773.	1.2	139
49	The Global Energy Balance Archive (GEBA): A database for the worldwide measured surface energy fluxes. AIP Conference Proceedings, 2017, , .	0.3	5
50	Collective Impacts of Orography and Soil Moisture on the Soil Moistureâ€Precipitation Feedback. Geophysical Research Letters, 2017, 44, 11,682.	1.5	31
51	Separating climate change signals into thermodynamic, lapse-rate and circulation effects: theory and application to the European summer climate. Climate Dynamics, 2017, 48, 3425-3440.	1.7	88
52	Evaluation of the convectionâ€resolving climate modeling approach on continental scales. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5237-5258.	1.2	105
53	Sequential Factor Separation for the Analysis of Numerical Model Simulations. Journals of the Atmospheric Sciences, 2017, 74, 1471-1484.	0.6	7
54	The Global Energy Balance Archive (GEBA) versionÂ2017: a database for worldwide measured surface energy fluxes. Earth System Science Data, 2017, 9, 601-613.	3.7	91

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55	Impact of topography on the diurnal cycle of summertime moist convection in idealized simulations. Meteorologische Zeitschrift, 2016, 25, 181-194.	0.5	9
56	Towards European-scale convection-resolving climate simulations with GPUs: a study with COSMO 4.19. Geoscientific Model Development, 2016, 9, 3393-3412.	1.3	78
57	The resolution dependence of cloud effects and shipâ€induced aerosolâ€cloud interactions in marine stratocumulus. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4810-4829.	1.2	17
58	Evaluation of convection-resolving models using satellite data: The diurnal cycle of summer convection over the Alps. Meteorologische Zeitschrift, 2016, 25, 165-179.	0.5	22
59	Robust climate scenarios for sites with sparse observations: a twoâ€step bias correction approach. International Journal of Climatology, 2016, 36, 1226-1243.	1.5	44
60	Enhanced summer convective rainfall at Alpine high elevations in response to climate warming. Nature Geoscience, 2016, 9, 584-589.	5.4	197
61	Percentile indices for assessing changes in heavy precipitation events. Climatic Change, 2016, 137, 201-216.	1.7	197
62	Objective Calibration of Regional Climate Models: Application over Europe and North America. Journal of Climate, 2016, 29, 819-838.	1.2	35
63	Does Quantile Mapping of Simulated Precipitation Correct for Biases in Transition Probabilities and Spell Lengths?. Journal of Climate, 2016, 29, 1605-1615.	1.2	71
64	The worst heat waves to come. Nature Climate Change, 2016, 6, 128-129.	8.1	92
65	Real-case simulations of aerosolâ€“cloud interactions in ship tracks over the Bay of Biscay. Atmospheric Chemistry and Physics, 2015, 15, 2185-2201.	1.9	13
66	The elevation dependency of 21st century European climate change: an <scp>RCM</scp> ensemble perspective. International Journal of Climatology, 2015, 35, 3902-3920.	1.5	61
67	MOUNTAIN METEOROLOGY | Orographic Effects. , 2015, , 103-113.		2
68	The energy balance over land and oceans: an assessment based on direct observations and CMIP5 climate models. Climate Dynamics, 2015, 44, 3393-3429.	1.7	239
69	A Bayesian Hierarchical Model for Heterogeneous RCMâ€“GCM Multimodel Ensembles*. Journal of Climate, 2015, 28, 6249-6266.	1.2	16
70	Heavy precipitation in a changing climate: Does shortâ€term summer precipitation increase faster?. Geophysical Research Letters, 2015, 42, 1165-1172.	1.5	338
71	Projected changes in precipitation intensity and frequency in Switzerland: a multiâ€model perspective. International Journal of Climatology, 2015, 35, 3204-3219.	1.5	49
72	Understanding flood regime changes in Europe: a state-of-the-art assessment. Hydrology and Earth System Sciences, 2014, 18, 2735-2772.	1.9	423

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73	Climate change in Switzerland: a review of physical, institutional, and political aspects. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 461-481.	3.6	21
74	Influence of the Background Wind on the Local Soil Moistureâ€“Precipitation Feedback. Journals of the Atmospheric Sciences, 2014, 71, 782-799.	0.6	80
75	A Case Study in Modeling Low-Lying Inversions and Stratocumulus Cloud Cover in the Bay of Biscay. Weather and Forecasting, 2014, 29, 289-304.	0.5	12
76	Assessment of Bias Assumptions for Climate Models. Journal of Climate, 2014, 27, 6799-6818.	1.2	43
77	Hydrological Climate-Impact Projections for the Rhine River: GCMâ€“RCM Uncertainty and Separate Temperature and Precipitation Effects*. Journal of Hydrometeorology, 2014, 15, 697-713.	0.7	37
78	Regional climate modeling on European scales: a joint standard evaluation of the EURO-CORDEX RCM ensemble. Geoscientific Model Development, 2014, 7, 1297-1333.	1.3	711
79	Enhanced Central European summer precipitation in the late 19th century: a link to the Tropics. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 111-123.	1.0	12
80	Evaluation of the convection-resolving regional climate modeling approach in decade-long simulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7889-7907.	1.2	327
81	Alpine snow cover in a changing climate: a regional climate model perspective. Climate Dynamics, 2013, 41, 735-754.	1.7	99
82	Projections of extreme precipitation events in regional climate simulations for Europe and the Alpine Region. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3610-3626.	1.2	209
83	Quantifying uncertainty sources in an ensemble of hydrological climateâ€impact projections. Water Resources Research, 2013, 49, 1523-1536.	1.7	284
84	The global energy balance from a surface perspective. Climate Dynamics, 2013, 40, 3107-3134.	1.7	368
85	A new diagram of the global energy balance. AIP Conference Proceedings, 2013, , .	0.3	9
86	Long-Term Simulations of Thermally Driven Flows and Orographic Convection at Convection-Parameterizing and Cloud-Resolving Resolutions. Journal of Applied Meteorology and Climatology, 2013, 52, 1490-1510.	0.6	67
87	Frequent floods in the European Alps coincide with cooler periods of the past 2500 years. Scientific Reports, 2013, 3, 2770.	1.6	76
88	Physical constraints for temperature biases in climate models. Geophysical Research Letters, 2013, 40, 4042-4047.	1.5	63
89	Exploring Perturbed Physics Ensembles in a Regional Climate Model. Journal of Climate, 2012, 25, 4582-4599.	1.2	52
90	Mesoscale Impacts of Explicit Numerical Diffusion in a Convection-Permitting Model. Monthly Weather Review, 2012, 140, 226-244.	0.5	18

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91	Causes for decadal variations of wind speed over land: Sensitivity studies with a global climate model. Geophysical Research Letters, 2012, 39, .	1.5	101
92	Impact of Greenland's topographic height on precipitation and snow accumulation in idealized simulations. Journal of Geophysical Research, 2012, 117, .	3.3	27
93	Changes in European summer temperature variability revisited. Geophysical Research Letters, 2012, 39, .	1.5	106
94	Objective calibration of regional climate models. Journal of Geophysical Research, 2012, 117, .	3.3	68
95	Diurnal equilibrium convection and land surfaceâ€“atmosphere interactions in an idealized cloudâ€resolving model. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1526-1539.	1.0	24
96	Bulk Convergence of Cloud-Resolving Simulations of Moist Convection over Complex Terrain. Journals of the Atmospheric Sciences, 2012, 69, 2207-2228.	0.6	62
97	Elevation gradients of European climate change in the regional climate model COSMO-CLM. Climatic Change, 2012, 112, 189-215.	1.7	91
98	Climate change projections for Switzerland based on a Bayesian multiâ€model approach. International Journal of Climatology, 2012, 32, 2348-2371.	1.5	74
99	Implementation and evaluation of aerosol and cloud microphysics in a regional climate model. Journal of Geophysical Research, 2011, 116, .	3.3	43
100	Simulation of dimming and brightening in Europe from 1958 to 2001 using a regional climate model. Journal of Geophysical Research, 2011, 116, .	3.3	26
101	Landâ€atmosphere coupling associated with snow cover. Geophysical Research Letters, 2011, 38, .	1.5	48
102	Snow cover sensitivity to horizontal resolution, parameterizations, and atmospheric forcing in a land surface model. Journal of Geophysical Research, 2011, 116, .	3.3	41
103	Spectral representation of the annual cycle in the climate change signal. Hydrology and Earth System Sciences, 2011, 15, 2777-2788.	1.9	92
104	Global precipitation response to changing forcings since 1870. Atmospheric Chemistry and Physics, 2011, 11, 9961-9970.	1.9	18
105	Intercomparison of aerosol climatologies for use in a regional climate model over Europe. Geophysical Research Letters, 2011, 38, .	1.5	25
106	An Idealized Cloud-Resolving Framework for the Study of Midlatitude Diurnal Convection over Land. Journals of the Atmospheric Sciences, 2011, 68, 1041-1057.	0.6	37
107	Statistical Analysis of Aerosol Effects on Simulated Mixed-Phase Clouds and Precipitation in the Alps. Journals of the Atmospheric Sciences, 2011, 68, 1474-1492.	0.6	31
108	An Improved Snow Scheme for the ECMWF Land Surface Model: Description and Offline Validation. Journal of Hydrometeorology, 2010, 11, 899-916.	0.7	221

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109	Modelling European winter wind storm losses in current and future climate. Climatic Change, 2010, 101, 485-514.	1.7	148
110	A gridded hourly precipitation dataset for Switzerland using rainâ€gauge analysis and radarâ€based disaggregation. International Journal of Climatology, 2010, 30, 1764-1775.	1.5	87
111	Consistent geographical patterns of changes in high-impact European heatwaves. Nature Geoscience, 2010, 3, 398-403.	5.4	851
112	A Generalization of the SLEVE Vertical Coordinate. Monthly Weather Review, 2010, 138, 3683-3689.	0.5	60
113	Bayesian multi-model projections of climate: generalization and application to ENSEMBLES results. Climate Research, 2010, 44, 227-241.	0.4	30
114	Seasonality and Interannual Variability of the Westerly Jet in the Tibetan Plateau Region*. Journal of Climate, 2009, 22, 2940-2957.	1.2	359
115	The Soil Moistureâ€“Precipitation Feedback in Simulations with Explicit and Parameterized Convection. Journal of Climate, 2009, 22, 5003-5020.	1.2	325
116	Future changes in daily summer temperature variability: driving processes and role for temperature extremes. Climate Dynamics, 2009, 33, 917-935.	1.7	225
117	Bayesian multi-model projection of climate: bias assumptions and interannual variability. Climate Dynamics, 2009, 33, 849-868.	1.7	162
118	Diurnal cycle of air pollution in the Kathmandu Valley, Nepal: 2. Modeling results. Journal of Geophysical Research, 2009, 114, .	3.3	28
119	MAP D-PHASE: Real-Time Demonstration of Weather Forecast Quality in the Alpine Region. Bulletin of the American Meteorological Society, 2009, 90, 1321-1336.	1.7	121
120	Cloudâ€resolving ensemble simulations of the August 2005 Alpine flood. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 889-904.	1.0	73
121	The precipitation climate of Central Asiaâ€”intercomparison of observational and numerical data sources in a remote semiarid region. International Journal of Climatology, 2008, 28, 295-314.	1.5	149
122	Fineâ€scale modeling of the boundary layer wind field over steep topography. Water Resources Research, 2008, 44, .	1.7	65
123	Combined surface solar brightening and increasing greenhouse effect support recent intensification of the global landâ€based hydrological cycle. Geophysical Research Letters, 2008, 35, .	1.5	168
124	Aspects of the diurnal cycle in a regional climate model. Meteorologische Zeitschrift, 2008, 17, 433-443.	0.5	84
125	Analysis of ERA40-driven CLM simulations for Europe. Meteorologische Zeitschrift, 2008, 17, 349-367.	0.5	128
126	Towards climate simulations at cloud-resolving scales. Meteorologische Zeitschrift, 2008, 17, 383-394.	0.5	157

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127	A probabilistic view on the August 2005 floods in the upper Rhine catchment. Natural Hazards and Earth System Sciences, 2008, 8, 281-291.	1.5	63
128	Impact of Scale and Aggregation on the Terrestrial Water Exchange: Integrating Land Surface Models and RhÃ´ne Catchment Observations. Journal of Hydrometeorology, 2007, 8, 1002-1015.	0.7	19
129	Dynamics of Orographically Triggered Banded Convection in Sheared Moist Orographic Flows. Journals of the Atmospheric Sciences, 2007, 64, 3542-3561.	0.6	20
130	Predictability and Error Growth Dynamics in Cloud-Resolving Models. Journals of the Atmospheric Sciences, 2007, 64, 4467-4478.	0.6	146
131	Probabilistic Flood Forecasting with a Limited-Area Ensemble Prediction System: Selected Case Studies. Journal of Hydrometeorology, 2007, 8, 897-909.	0.7	83
132	Soil Moistureâ€“Atmosphere Interactions during the 2003 European Summer Heat Wave. Journal of Climate, 2007, 20, 5081-5099.	1.2	757
133	Atmospheric Predictability at Synoptic Versus Cloud-Resolving Scales. Bulletin of the American Meteorological Society, 2007, 88, 1783-1794.	1.7	137
134	On the relationship between the Indian summer monsoon and river flow in the Aral Sea basin. Geophysical Research Letters, 2007, 34, .	1.5	24
135	Contribution of land-atmosphere coupling to recent European summer heat waves. Geophysical Research Letters, 2007, 34, .	1.5	512
136	Analysis of seasonal terrestrial water storage variations in regional climate simulations over Europe. Journal of Geophysical Research, 2007, 112, .	3.3	24
137	Editorial: â€œMAP Findingsâ€• Quarterly Journal of the Royal Meteorological Society, 2007, 133, 809-810.	1.0	5
138	An inter-comparison of regional climate models for Europe: model performance in present-day climate. Climatic Change, 2007, 81, 31-52.	1.7	602
139	European summer climate variability in a heterogeneous multi-model ensemble. Climatic Change, 2007, 81, 209-232.	1.7	110
140	Modelling daily temperature extremes: recent climate and future changes over Europe. Climatic Change, 2007, 81, 249-265.	1.7	169
141	Seasonal Variations in Terrestrial Water Storage for Major Midlatitude River Basins. Journal of Hydrometeorology, 2006, 7, 39-60.	0.7	75
142	Predictability Mysteries in Cloud-Resolving Models. Monthly Weather Review, 2006, 134, 2095-2107.	0.5	77
143	Landâ€“atmosphere coupling and climate change in Europe. Nature, 2006, 443, 205-209.	13.7	1,325
144	Climate Variability-Observations, Reconstructions, and Model Simulations for the Atlantic-European and Alpine Region from 1500-2100 AD. Climatic Change, 2006, 79, 9-29.	1.7	74

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145	Climate variability â€" observations, reconstructions, and model simulations for the Atlantic-European and Alpine region from 1500â€"2100 AD. , 2006, , 9-29.		3
146	Embedded Cellular Convection in Moist Flow past Topography. Journals of the Atmospheric Sciences, 2005, 62, 2810-2828.	0.6	67
147	Soil Control on Runoff Response to Climate Change in Regional Climate Model Simulations. Journal of Climate, 2005, 18, 3536-3551.	1.2	65
148	Probabilistic seasonal prediction of the winter North Atlantic Oscillation and its impact on near surface temperature. Climate Dynamics, 2005, 24, 213-226.	1.7	48
149	Hydrologic simulations in the Rhine basin driven by a regional climate model. Journal of Geophysical Research, 2005, 110, .	3.3	100
150	European temperature distribution changes in observations and climate change scenarios. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	65
151	Orographic Precipitation and Climate Change. Advances in Global Change Research, 2005, , 255-266.	1.6	3
152	Seasonal Runoff Forecasting Using Precipitation from Meteorological Data Assimilation Systems. Journal of Hydrometeorology, 2004, 5, 959-973.	0.7	60
153	The role of increasing temperature variability in European summer heatwaves. Nature, 2004, 427, 332-336.	13.7	2,373
154	Hot news from summer 2003. Nature, 2004, 432, 559-560.	13.7	350
155	The wake south of the Alps: Dynamics and structure of the lee-side flow and secondary potential vorticity banners. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 1275-1303.	1.0	20
156	Inferring Changes in Terrestrial Water Storage Using ERA-40 Reanalysis Data: The Mississippi River Basin. Journal of Climate, 2004, 17, 2039-2057.	1.2	118
157	Convection-resolving precipitation forecasting and its predictability in Alpine river catchments. Journal of Hydrology, 2004, 288, 57-73.	2.3	38
158	Predictability of Precipitation in a Cloud-Resolving Model. Monthly Weather Review, 2004, 132, 560-577.	0.5	97
159	Structure and dynamics of an Alpine potential-vorticity banner. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 825-855.	1.0	47
160	Predictability and uncertainty in a regional climate model. Journal of Geophysical Research, 2003, 108, .	3.3	144
161	On Potential Vorticity Flux Vectors. Journals of the Atmospheric Sciences, 2003, 60, 2917-2921.	0.6	3
162	OROGRAPHIC EFFECTS | Lee Cyclogenesis. , 2003, , 1602-1614.		1

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163	Interannual Covariance between Japan Summer Precipitation and Western North Pacific SST. Journal of the Meteorological Society of Japan, 2003, 81, 1435-1456.	0.7	6
164	High-Performance Modelling for the Mesoscale Alpine Programme (MAP) Field Experiment. , 2002, , 301-312.		2
165	The Real-Time Ultrafinescale Forecast Support during the Special Observing Period of the MAP. Bulletin of the American Meteorological Society, 2002, 83, 85-109.	1.7	56
166	Mesoscale mountains and the larger-scale atmospheric dynamics: A review. International Geophysics, 2002, 83, 29-42.	0.6	17
167	A New Terrain-Following Vertical Coordinate Formulation for Atmospheric Prediction Models. Monthly Weather Review, 2002, 130, 2459-2480.	0.5	211
168	Mesoscale precipitation variability in the region of the European Alps during the 20th century. International Journal of Climatology, 2002, 22, 1049-1074.	1.5	114
169	Summer dryness in a warmer climate: a process study with a regional climate model. Climate Dynamics, 2002, 20, 69-85.	1.7	90
170	Detection Probability of Trends in Rare Events: Theory and Application to Heavy Precipitation in the Alpine Region. Journal of Climate, 2001, 14, 1568-1584.	1.2	314
171	Climate impacts of European-scale anthropogenic vegetation changes: A sensitivity study using a regional climate model. Journal of Geophysical Research, 2001, 106, 7817-7835.	3.3	72
172	Frontal modification and lee cyclogenesis in the Alps: A case study using the ALPEX reanalysis data set. Meteorology and Atmospheric Physics, 2001, 78, 89-105.	0.9	30
173	The role of soil states in medium-range weather predictability. Nonlinear Processes in Geophysics, 2001, 8, 373-386.	0.6	3
174	Reconstruction of Mesoscale Precipitation Fields from Sparse Observations in Complex Terrain. Journal of Climate, 2001, 14, 3289-3306.	1.2	41
175	Rotational aspects of stratified gap flows and shallow fÃ¶hn. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 161-187.	1.0	27
176	Climate dynamics and extreme precipitation and flood events in Central Europe. Integrated Assessment: an International Journal, 2000, 1, 281-300.	0.8	91
177	Idealised Numerical Experiments of Alpine Flow Regimes and Southside Precipitation Events. Meteorology and Atmospheric Physics, 2000, 72, 233-250.	0.9	52
178	The Soilâ€“Precipitation Feedback: A Process Study with a Regional Climate Model. Journal of Climate, 1999, 12, 722-741.	1.2	482
179	The influence of vegetation on the summertime evolution of European soil moisture. Physics and Chemistry of the Earth, 1999, 24, 609-614.	0.3	10
180	The Interannual Variability as a Test Ground for Regional Climate Simulations over Japan. Journal of the Meteorological Society of Japan, 1999, 77, 649-672.	0.7	13

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181	A precipitation climatology of the Alps from high-resolution rain-gauge observations. International Journal of Climatology, 1998, 18, 873-900.	1.5	735
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