

Sven Kotlarski

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

6,889
citations

117571

34
h-index

123376

61
g-index

63
all docs

63
docs citations

63
times ranked

7313
citing authors

#	ARTICLE	IF	CITATIONS
1	21st Century alpine climate change. <i>Climate Dynamics</i> , 2023, 60, 65-86.	1.7	29
2	Trends and drivers of recent summer drying in Switzerland. <i>Environmental Research Communications</i> , 2022, 4, 025004.	0.9	10
3	Climate Changes and Their Elevational Patterns in the Mountains of the World. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	140
4	Climate Scenarios for Switzerland CH2018 â€“ Approach and Implications. <i>Climate Services</i> , 2022, 26, 100288.	1.0	12
5	Observed snow depth trends in the European Alps: 1971 to 2019. <i>Cryosphere</i> , 2021, 15, 1343-1382.	1.5	87
6	Urban multi-model climate projections of intense heat in Switzerland. <i>Climate Services</i> , 2021, 22, 100228.	1.0	7
7	Toward a definition of Essential Mountain Climate Variables. <i>One Earth</i> , 2021, 4, 805-827.	3.6	26
8	The Swiss Alpine zero degree line: Methods, past evolution and sensitivities. <i>International Journal of Climatology</i> , 2021, 41, 6785-6804.	1.5	4
9	The HEAT-SHIELD project â€” Perspectives from an inter-sectoral approach to occupational heat stress. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 747-755.	0.6	22
10	<scp>Convection</scp>â€”permitting modeling with regional climate models: Latest developments and next steps. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2021, 12, e731.	3.6	74
11	Vulnerability of ski tourism towards internal climate variability and climate change in the Swiss Alps. <i>Science of the Total Environment</i> , 2021, 784, 147054.	3.9	21
12	CH2018 â€“ National climate scenarios for Switzerland: How to construct consistent multi-model projections from ensembles of opportunity. <i>Climate Services</i> , 2020, 20, 100196.	1.0	19
13	Lack of Change in the Projected Frequency and Persistence of Atmospheric Circulation Types Over Central Europe. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086132.	1.5	34
14	Climate Scenarios and Agricultural Indices: A Case Study for Switzerland. <i>Atmosphere</i> , 2020, 11, 535.	1.0	8
15	Escalating environmental summer heat exposureâ€”a future threat for the European workforce. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	45
16	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	227
17	Anthropogenic climate change versus internal climate variability: impacts on snow cover in the Swiss Alps. <i>Cryosphere</i> , 2020, 14, 2909-2924.	1.5	9
18	An intercomparison of a large ensemble of statistical downscaling methods over Europe: Results from the VALUE perfect predictor cross-validation experiment. <i>International Journal of Climatology</i> , 2019, 39, 3750-3785.	1.5	164

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19	An Occupational Heat-Health Warning System for Europe: The HEAT-SHIELD Platform. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2890.	1.2	46
20	Overview of Existing Heat-Health Warning Systems in Europe. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2657.	1.2	124
21	Heat Warnings in Switzerland: Reassessing the Choice of the Current Heat Stress Index. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2684.	1.2	13
22	Projections of Alpine Snow-Cover in a High-Resolution Climate Simulation. <i>Atmosphere</i> , 2019, 10, 463.	1.0	24
23	Climate projections of a multivariate heat stress index: the role of downscaling and bias correction. <i>Geoscientific Model Development</i> , 2019, 12, 3419-3438.	1.3	33
24	Evaluating the added value of the new Swiss climate scenarios for hydrology: An example from the Thur catchment. <i>Climate Services</i> , 2019, 13, 1-13.	1.0	11
25	Process-based evaluation of the VALUE perfect predictor experiment of statistical downscaling methods. <i>International Journal of Climatology</i> , 2019, 39, 3868-3893.	1.5	32
26	Uncertainty in gridded precipitation products: Influence of station density, interpolation method and grid resolution. <i>International Journal of Climatology</i> , 2019, 39, 3717-3729.	1.5	71
27	Observational uncertainty and regional climate model evaluation: A pan-European perspective. <i>International Journal of Climatology</i> , 2019, 39, 3730-3749.	1.5	98
28	Climate Model Biases and Modification of the Climate Change Signal by Intensity-Dependent Bias Correction. <i>Journal of Climate</i> , 2018, 31, 6591-6610.	1.2	32
29	Future snowfall in the Alps: projections based on the EURO-CORDEX regional climate models. <i>Cryosphere</i> , 2018, 12, 1-24.	1.5	75
30	Importance of climate uncertainty for projections of forest ecosystem services. <i>Regional Environmental Change</i> , 2018, 18, 2145-2159.	1.4	12
31	The Alpine snow-albedo feedback in regional climate models. <i>Climate Dynamics</i> , 2017, 48, 1109-1124.	1.7	35
32	Projected changes in surface solar radiation in CMIP5 global climate models and in EURO-CORDEX regional climate models for Europe. <i>Climate Dynamics</i> , 2017, 49, 2665-2683.	1.7	82
33	Assessing distribution-based climate model bias correction methods over an alpine domain: added value and limitations. <i>International Journal of Climatology</i> , 2017, 37, 2633-2653.	1.5	47
34	Separating climate change signals into thermodynamic, lapse-rate and circulation effects: theory and application to the European summer climate. <i>Climate Dynamics</i> , 2017, 48, 3425-3440.	1.7	88
35	Regional climate change over Europe in COSMO-CLM: Influence of emission scenario and driving global model. <i>Meteorologische Zeitschrift</i> , 2016, 25, 121-136.	0.5	41
36	Semi-automated calibration method for modelling of mountain permafrost evolution in Switzerland. <i>Cryosphere</i> , 2016, 10, 2693-2719.	1.5	25

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37	Robust climate scenarios for sites with sparse observations: a two-step bias correction approach. <i>International Journal of Climatology</i> , 2016, 36, 1226-1243.	1.5	44
38	Objective Calibration of Regional Climate Models: Application over Europe and North America. <i>Journal of Climate</i> , 2016, 29, 819-838.	1.2	35
39	Does Quantile Mapping of Simulated Precipitation Correct for Biases in Transition Probabilities and Spell Lengths?. <i>Journal of Climate</i> , 2016, 29, 1605-1615.	1.2	71
40	Daily precipitation statistics in a EURO-CORDEX RCM ensemble: added value of raw and bias-corrected high-resolution simulations. <i>Climate Dynamics</i> , 2016, 47, 719-737.	1.7	85
41	<scp>VALUE</scp>: A framework to validate downscaling approaches for climate change studies. <i>Earth's Future</i> , 2015, 3, 1-14.	2.4	167
42	The elevation dependency of 21st century European climate change: an <scp>RCM</scp> ensemble perspective. <i>International Journal of Climatology</i> , 2015, 35, 3902-3920.	1.5	61
43	Response of Karakoram-Himalayan glaciers to climate variability and climatic change: A regional climate model assessment. <i>Geophysical Research Letters</i> , 2015, 42, 1818-1825.	1.5	73
44	Hydrological Climate-Impact Projections for the Rhine River: GCM-RCM Uncertainty and Separate Temperature and Precipitation Effects*. <i>Journal of Hydrometeorology</i> , 2014, 15, 697-713.	0.7	37
45	Regional climate modeling on European scales: a joint standard evaluation of the EURO-CORDEX RCM ensemble. <i>Geoscientific Model Development</i> , 2014, 7, 1297-1333.	1.3	711
46	EURO-CORDEX: new high-resolution climate change projections for European impact research. <i>Regional Environmental Change</i> , 2014, 14, 563-578.	1.4	1,758
47	21st century climate change in the European Alps-A review. <i>Science of the Total Environment</i> , 2014, 493, 1138-1151.	3.9	746
48	Alpine snow cover in a changing climate: a regional climate model perspective. <i>Climate Dynamics</i> , 2013, 41, 735-754.	1.7	99
49	Quantifying uncertainty sources in an ensemble of hydrological climate-impact projections. <i>Water Resources Research</i> , 2013, 49, 1523-1536.	1.7	284
50	The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project. <i>Climate Dynamics</i> , 2013, 41, 2555-2575.	1.7	290
51	Physical constraints for temperature biases in climate models. <i>Geophysical Research Letters</i> , 2013, 40, 4042-4047.	1.5	63
52	Exploring Perturbed Physics Ensembles in a Regional Climate Model. <i>Journal of Climate</i> , 2012, 25, 4582-4599.	1.2	52
53	The Elbe river flooding 2002 as seen by an extended regional climate model. <i>Journal of Hydrology</i> , 2012, 472-473, 169-183.	2.3	23
54	Elevation gradients of European climate change in the regional climate model COSMO-CLM. <i>Climatic Change</i> , 2012, 112, 189-215.	1.7	91

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55	Snow cover sensitivity to horizontal resolution, parameterizations, and atmospheric forcing in a land surface model. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
56	Spectral representation of the annual cycle in the climate change signal. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2777-2788.	1.9	92
57	Representing glaciers in a regional climate model. <i>Climate Dynamics</i> , 2010, 34, 27-46.	1.7	39
58	Forcing a Distributed Glacier Mass Balance Model with the Regional Climate Model REMO. Part I: Climate Model Evaluation. <i>Journal of Climate</i> , 2010, 23, 1589-1606.	1.2	34
59	Forcing a Distributed Glacier Mass Balance Model with the Regional Climate Model REMO. Part II: Downscaling Strategy and Results for Two Swiss Glaciers. <i>Journal of Climate</i> , 2010, 23, 1607-1620.	1.2	22
60	Evaluation of a dynamically downscaled atmospheric reanalyse in the prospect of forcing long term simulations of the ocean circulation in the Gulf of Lions. <i>Ocean Modelling</i> , 2009, 30, 270-286.	1.0	20
61	A high resolution reference data set of German wind velocity 19512001 and comparison with regional climate model results. <i>Meteorologische Zeitschrift</i> , 2006, 15, 585-596.	0.5	37
62	Regional climate model simulations as input for hydrological applications: evaluation of uncertainties. <i>Advances in Geosciences</i> , 0, 5, 119-125.	12.0	69