Sven Kotlarski

List of Publications by Year
in descending order

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62	6,889	117571	123376
papers	citations	34 h-index	61 g-index

63	63	63	7313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	EURO-CORDEX: new high-resolution climate change projections for European impact research. Regional Environmental Change, 2014, 14, 563-578.	1.4	1,758
2	21st century climate change in the European Alpsâ€"A review. Science of the Total Environment, 2014, 493, 1138-1151.	3.9	746
3	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
4	The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project. Climate Dynamics, 2013, 41, 2555-2575.	1.7	290
5	Quantifying uncertainty sources in an ensemble of hydrological climateâ€impact projections. Water Resources Research, 2013, 49, 1523-1536.	1.7	284
6	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. Regional Environmental Change, 2020, 20, 1.	1.4	227
7	<scp>VALUE</scp>: A framework to validate downscaling approaches for climate change studies. Earth's Future, 2015, 3, 1-14.	2.4	167
8	An intercomparison of a large ensemble of statistical downscaling methods over Europe: Results from the VALUE perfect predictor crossâ€validation experiment. International Journal of Climatology, 2019, 39, 3750-3785.	1.5	164
9	Climate Changes and Their Elevational Patterns in the Mountains of the World. Reviews of Geophysics, 2022, 60, .	9.0	140
10	Overview of Existing Heat-Health Warning Systems in Europe. International Journal of Environmental Research and Public Health, 2019, 16, 2657.	1.2	124
11	Alpine snow cover in a changing climate: a regional climate model perspective. Climate Dynamics, 2013, 41, 735-754.	1.7	99
12	Observational uncertainty and regional climate model evaluation: A panâ€European perspective. International Journal of Climatology, 2019, 39, 3730-3749.	1.5	98
13	Spectral representation of the annual cycle in the climate change signal. Hydrology and Earth System Sciences, 2011, 15, 2777-2788.	1.9	92
14	Elevation gradients of European climate change in the regional climate model COSMO-CLM. Climatic Change, 2012, 112, 189-215.	1.7	91
15	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
16	Observed snow depth trends in the European Alps: 1971 to 2019. Cryosphere, 2021, 15, 1343-1382.	1.5	87
17	Daily precipitation statistics in a EURO-CORDEX RCM ensemble: added value of raw and bias-corrected high-resolution simulations. Climate Dynamics, 2016, 47, 719-737.	1.7	85
18	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

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19	Future snowfall in the Alps: projections based on the EURO-CORDEX regional climate models. Cryosphere, 2018, 12, 1-24.	1.5	75
20	<scp>Convection</scp>â€permitting modeling with regional climate models: Latest developments and next steps. Wiley Interdisciplinary Reviews: Climate Change, 2021, 12, e731.	3.6	74
21	Response of Karakoramâ€Himalayan glaciers to climate variability and climatic change: A regional climate model assessment. Geophysical Research Letters, 2015, 42, 1818-1825.	1.5	73
22	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
23	Uncertainty in gridded precipitation products: Influence of station density, interpolation method and grid resolution. International Journal of Climatology, 2019, 39, 3717-3729.	1.5	71
24	Regional climate model simulations as input for hydrological applications: evaluation of uncertainties. Advances in Geosciences, 0, 5, 119-125.	12.0	69
25	Physical constraints for temperature biases in climate models. Geophysical Research Letters, 2013, 40, 4042-4047.	1.5	63
26	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
27	Exploring Perturbed Physics Ensembles in a Regional Climate Model. Journal of Climate, 2012, 25, 4582-4599.	1.2	52
28	Assessing distributionâ€based climate model bias correction methods over an alpine domain: added value and limitations. International Journal of Climatology, 2017, 37, 2633-2653.	1.5	47
29	An Occupational Heatâ€“Health Warning System for Europe: The HEAT-SHIELD Platform. International Journal of Environmental Research and Public Health, 2019, 16, 2890.	1.2	46
30	Escalating environmental summer heat exposureâ€”a future threat for the European workforce. Regional Environmental Change, 2020, 20, 1.	1.4	45
31	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
32	Snow cover sensitivity to horizontal resolution, parameterizations, and atmospheric forcing in a land surface model. Journal of Geophysical Research, 2011, 116, .	3.3	41
33	Regional climate change over Europe in COSMO-CLM: Influence of emission scenario and driving global model. Meteorologische Zeitschrift, 2016, 25, 121-136.	0.5	41
34	Representing glaciers in a regional climate model. Climate Dynamics, 2010, 34, 27-46.	1.7	39
35	A high resolution reference data set of German wind velocity 19512001 and comparison with regional climate model results. Meteorologische Zeitschrift, 2006, 15, 585-596.	0.5	37
36	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

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37	Objective Calibration of Regional Climate Models: Application over Europe and North America. Journal of Climate, 2016, 29, 819-838.	1.2	35
38	The Alpine snow-albedo feedback in regional climate models. Climate Dynamics, 2017, 48, 1109-1124.	1.7	35
39	Forcing a Distributed Glacier Mass Balance Model with the Regional Climate Model REMO. Part I: Climate Model Evaluation. Journal of Climate, 2010, 23, 1589-1606.	1.2	34
40	Lack of Change in the Projected Frequency and Persistence of Atmospheric Circulation Types Over Central Europe. Geophysical Research Letters, 2020, 47, e2019GL086132.	1.5	34
41	Climate projections of a multivariate heat stress index: the role of downscaling and bias correction. Geoscientific Model Development, 2019, 12, 3419-3438.	1.3	33
42	Climate Model Biases and Modification of the Climate Change Signal by Intensity-Dependent Bias Correction. Journal of Climate, 2018, 31, 6591-6610.	1.2	32
43	Processâ€based evaluation of the VALUE perfect predictor experiment of statistical downscaling methods. International Journal of Climatology, 2019, 39, 3868-3893.	1.5	32
44	21st Century alpine climate change. Climate Dynamics, 2023, 60, 65-86.	1.7	29
45	Toward a definition of Essential Mountain Climate Variables. One Earth, 2021, 4, 805-827.	3.6	26
46	Semi-automated calibration method for modelling of mountain permafrost evolution in Switzerland. Cryosphere, 2016, 10, 2693-2719.	1.5	25
47	Projections of Alpine Snow-Cover in a High-Resolution Climate Simulation. Atmosphere, 2019, 10, 463.	1.0	24
48	The Elbe river flooding 2002 as seen by an extended regional climate model. Journal of Hydrology, 2012, 472-473, 169-183.	2.3	23
49	Forcing a Distributed Glacier Mass Balance Model with the Regional Climate Model REMO. Part II: Downscaling Strategy and Results for Two Swiss Glaciers. Journal of Climate, 2010, 23, 1607-1620.	1.2	22
50	The HEAT-SHIELD project â€" Perspectives from an inter-sectoral approach to occupational heat stress. Journal of Science and Medicine in Sport, 2021, 24, 747-755.	0.6	22
51	Vulnerability of ski tourism towards internal climate variability and climate change in the Swiss Alps. Science of the Total Environment, 2021, 784, 147054.	3.9	21
52	Evaluation of a dynamically downscaled atmospheric reanalyse in the prospect of forcing long term simulations of the ocean circulation in the Gulf of Lions. Ocean Modelling, 2009, 30, 270-286.	1.0	20
53	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
54	Heat Warnings in Switzerland: Reassessing the Choice of the Current Heat Stress Index. International Journal of Environmental Research and Public Health, 2019, 16, 2684.	1.2	13

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55	Importance of climate uncertainty for projections of forest ecosystem services. Regional Environmental Change, 2018, 18, 2145-2159.	1.4	12
56	Climate Scenarios for Switzerland CH2018 â€“ Approach and Implications. Climate Services, 2022, 26, 100288.	1.0	12
57	Evaluating the added value of the new Swiss climate scenarios for hydrology: An example from the Thur catchment. Climate Services, 2019, 13, 1-13.	1.0	11
58	Trends and drivers of recent summer drying in Switzerland. Environmental Research Communications, 2022, 4, 025004.	0.9	10
59	Anthropogenic climate change versus internal climate variability: impacts on snow cover in the Swiss Alps. Cryosphere, 2020, 14, 2909-2924.	1.5	9
60	Climate Scenarios and Agricultural Indices: A Case Study for Switzerland. Atmosphere, 2020, 11, 535.	1.0	8
61	Urban multi-model climate projections of intense heat in Switzerland. Climate Services, 2021, 22, 100228.	1.0	7
62	The Swiss Alpine zero degree line: Methods, past evolution and sensitivities. International Journal of Climatology, 2021, 41, 6785-6804.	1.5	4