

Christoph Beck

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

10,868
citations

279701

23
h-index

243529

44
g-index

51
all docs

51
docs citations

51
times ranked

15555
citing authors

#	ARTICLE	IF	CITATIONS
1	World Map of the Köppen-Geiger climate classification updated. Meteorologische Zeitschrift, 2006, 15, 259-263.	0.5	8,026
2	Classifications of Atmospheric Circulation Patterns. Annals of the New York Academy of Sciences, 2008, 1146, 105-152.	1.8	492
3	Reconstruction of sea level pressure fields over the Eastern North Atlantic and Europe back to 1500. Climate Dynamics, 2002, 18, 545-561.	1.7	378
4	Cost733cat – A database of weather and circulation type classifications. Physics and Chemistry of the Earth, 2010, 35, 360-373.	1.2	290
5	Title is missing!. Climatic Change, 2001, 49, 441-462.	1.7	186
6	Development and comparison of circulation type classifications using the <scp>COST</scp> 733 dataset and software. International Journal of Climatology, 2016, 36, 2673-2691.	1.5	151
7	Generating WUDAPT Level 0 data – Current status of production and evaluation. Urban Climate, 2019, 27, 24-45.	2.4	148
8	Atmospheric circulation variability in the North-Atlantic-European area since the mid-seventeenth century. Climate Dynamics, 2003, 20, 341-352.	1.7	127
9	Frequency and within-type variations of large-scale circulation types and their effects on low-frequency climate variability in central europe since 1780. International Journal of Climatology, 2007, 27, 473-491.	1.5	115
10	Zonal Indices for Europe 1780–1995 and Running Correlations with Temperature. Climatic Change, 2001, 48, 219-241.	1.7	103
11	Evaluation and comparison of circulation type classifications for the European domain. Physics and Chemistry of the Earth, 2010, 35, 374-387.	1.2	93
12	The potential of local climate zones maps as a heat stress assessment tool, supported by simulated air temperature data. Landscape and Urban Planning, 2018, 178, 183-197.	3.4	85
13	Quality of Crowdsourced Data on Urban Morphology – The Human Influence Experiment (HUMINEX). Urban Science, 2017, 1, 15.	1.1	67
14	Air temperature characteristics of local climate zones in the Augsburg urban area (Bavaria, southern) Tj ETQq0 0 0 rBT /Overlock 10 Tf	2.4	66
15	The SCALEX Campaign: Scale-Crossing Land Surface and Boundary Layer Processes in the TERENO-preAlpine Observatory. Bulletin of the American Meteorological Society, 2017, 98, 1217-1234.	1.7	49
16	Winter –weekend effect– in southern Europe and its connections with periodicities in atmospheric dynamics. Geophysical Research Letters, 2008, 35, .	1.5	35
17	Synoptic –climatological evaluation of the classifications of atmospheric circulation patterns over Europe. International Journal of Climatology, 2016, 36, 2710-2726.	1.5	35
18	The effect of domain size on the relationship between circulation type classifications and surface climate. International Journal of Climatology, 2016, 36, 2692-2709.	1.5	35

#	ARTICLE	IF	CITATIONS
19	Statistical modelling of spatial patterns of the urban heat island intensity in the urban environment of Augsburg, Germany. <i>Urban Climate</i> , 2019, 29, 100491.	2.4	34
20	Trends in frequency and persistence of atmospheric circulation types over Europe derived from a multitude of classifications. <i>International Journal of Climatology</i> , 2017, 37, 2502-2521.	1.5	32
21	Identification and monitoring of Saharan dust: An inventory representative for south Germany since 1997. <i>Atmospheric Environment</i> , 2015, 109, 87-96.	1.9	29
22	Towards quantifying forest recreation: Exploring outdoor thermal physiology and human well-being along exemplary pathways in a central European urban forest (Augsburg, SE-Germany). <i>Urban Forestry and Urban Greening</i> , 2020, 49, 126622.	2.3	27
23	A review of non-stationarities in climate variability of the last century with focus on the North Atlanticâ€“European sector. <i>Earth-Science Reviews</i> , 2015, 147, 1-17.	4.0	24
24	Cloud cover changes driven by atmospheric circulation in Europe during the last decades. <i>International Journal of Climatology</i> , 2021, 41, E2211.	1.5	18
25	Spatiotemporal Variability of the Southern Annular Mode and its Influence on Antarctic Surface Temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, .	1.2	17
26	Circulation types related to lightning activity over Catalonia and the Principality of Andorra. <i>Physics and Chemistry of the Earth</i> , 2010, 35, 469-476.	1.2	16
27	Zonal Indices for Europe 1780â€“1995 and Running Correlations with Temperature. , 2001, , 219-241.		16
28	Interannual drought index variations in Central Europe related to the large-scale atmospheric circulationâ€“application and evaluation of statistical downscaling approaches based on circulation type classifications. <i>Theoretical and Applied Climatology</i> , 2015, 121, 713-732.	1.3	13
29	Threshold temperatures for subjective heat stress in urban apartmentsâ€“Analysing nocturnal bedroom temperatures during a heat wave in Germany. <i>Climate Risk Management</i> , 2021, 32, 100286.	1.5	13
30	Influence of Local Sources and Meteorological Parameters on the Spatial and Temporal Distribution of Ultrafine Particles in Augsburg, Germany. <i>Frontiers in Environmental Science</i> , 2021, 8, .	1.5	12
31	Atmospheric circulation types and extreme areal precipitation in southern central Europe. <i>Advances in Science and Research</i> , 0, 14, 71-75.	1.0	12
32	Circulation Changes in Europe since the 1780s. , 2001, , 79-99.		11
33	The Human Influence Experiment (Part 2): Guidelines for Improved Mapping of Local Climate Zones Using a Supervised Classification. <i>Urban Science</i> , 2019, 3, 27.	1.1	10
34	Towards the determination of driving factors of varying LST-LCZ relationships: A case study over 25 cities. <i>Geographica Pannonica</i> , 2019, 23, 289-307.	0.5	10
35	Downscaling of monthly PM 10 indices at different sites in Bavaria (Germany) based on circulation type classifications. <i>Atmospheric Pollution Research</i> , 2014, 5, 741-752.	1.8	9
36	Thunderstorm Asthma: In Search For Relationships With Airborne Pollen And Fungal Spores From 23 Sites In Bavaria, Germany. A Rare Incident Or A Common Threat?. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, AB336.	1.5	9

#	ARTICLE	IF	CITATIONS
37	Variability of North-Atlantic-European Circulation Patterns Since 1780 and Corresponding Variations in Central European Climate. , 2001, , 321-331.		9
38	Heat adaptation measures in private households: an application and adaptation of the protective action decision model. Humanities and Social Sciences Communications, 2021, 8, .	1.3	8
39	Sensitivity of proxies on non-linear interactions in the climate system. Scientific Reports, 2016, 5, 18560.	1.6	7
40	Synoptic-scale circulation patterns during summer derived from tree rings in mid-latitude Asia. Climate Dynamics, 2017, 49, 1917-1931.	1.7	7
41	Arctic glaciers record wavier circumpolar winds. Nature Climate Change, 2022, 12, 249-255.	8.1	7
42	New Insights into Weather and Stroke: Influences of Specific Air Masses and Temperature Changes on Stroke Incidence. Cerebrovascular Diseases, 2019, 47, 275-284.	0.8	6
43	Evaluation of Tree Growth Relevant Atmospheric Circulation Patterns for Geopotential Height Field Reconstructions for Asia. Journal of Climate, 2018, 31, 4391-4401.	1.2	5
44	Mapping the time-varying spatial heterogeneity of temperature processes over the urban landscape of Augsburg, Germany. Urban Climate, 2022, 43, 101160.	2.4	4
45	Are there weekly cycles in occurrence frequencies of large-scale circulation types?. Atmospheric Science Letters, 2012, 13, 238-243.	0.8	3
46	Assessing local daily temperatures by means of novel analog approaches: a case study based on the city of Augsburg, Germany. Theoretical and Applied Climatology, 2021, 145, 31-46.	1.3	3
47	Mobile Sensing for Wellbeing Estimation of Urban Green using Physiological Signals. , 2019, , .		2
48	The phenomenon of thunderstorm asthma in Bavaria, Southern Germany: a statistical approach. International Journal of Environmental Health Research, 2022, 32, 2678-2694.	1.3	1
49	Automated Synoptic Classifications. , 2015, , .		0
50	P II â€“ 1â€“8â€“...Development of land-use regression models for air temperature and relative humidity in augsburg, germany. , 2018, , .		0