

Martin Hirschi

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

9,260
citations

185998

28
h-index

233125

45
g-index

63
all docs

63
docs citations

63
times ranked

9157
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating soil moisture–climate interactions in a changing climate: A review. <i>Earth-Science Reviews</i> , 2010, 99, 125-161.	4.0	3,380
2	ESA CCI Soil Moisture for improved Earth system understanding: State-of-the art and future directions. <i>Remote Sensing of Environment</i> , 2017, 203, 185-215.	4.6	781
3	A Revised Hydrology for the ECMWF Model: Verification from Field Site to Terrestrial Water Storage and Impact in the Integrated Forecast System. <i>Journal of Hydrometeorology</i> , 2009, 10, 623-643.	0.7	695
4	Observational evidence for soil-moisture impact on hot extremes in southeastern Europe. <i>Nature Geoscience</i> , 2011, 4, 17-21.	5.4	607
5	An inter-comparison of regional climate models for Europe: model performance in present-day climate. <i>Climatic Change</i> , 2007, 81, 31-52.	1.7	602
6	Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	312
7	Benchmark products for land evapotranspiration: LandFlux-EVAL multi-data set synthesis. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3707-3720.	1.9	310
8	A regional perspective on trends in continental evaporation. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	273
9	The WACMOS-ET project – Part 2: Evaluation of global terrestrial evaporation data sets. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 823-842.	1.9	253
10	Asymmetric European summer heat predictability from wet and dry southern winters and springs. <i>Nature Climate Change</i> , 2012, 2, 736-741.	8.1	213
11	The WACMOS-ET project – Part 1: Tower-scale evaluation of four remote-sensing-based evapotranspiration algorithms. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 803-822.	1.9	164
12	Validation practices for satellite soil moisture retrievals: What are (the) errors?. <i>Remote Sensing of Environment</i> , 2020, 244, 111806.	4.6	164
13	A roadmap for high-resolution satellite soil moisture applications – confronting product characteristics with user requirements. <i>Remote Sensing of Environment</i> , 2021, 252, 112162.	4.6	138
14	Using remotely sensed soil moisture for land–atmosphere coupling diagnostics: The role of surface vs. root-zone soil moisture variability. <i>Remote Sensing of Environment</i> , 2014, 154, 246-252.	4.6	134
15	Quantifying Spatiotemporal Variations of Soil Moisture Control on Surface Energy Balance and Near-Surface Air Temperature. <i>Journal of Climate</i> , 2017, 30, 7105-7124.	1.2	121
16	A drought event composite analysis using satellite remote-sensing based soil moisture. <i>Remote Sensing of Environment</i> , 2017, 203, 216-225.	4.6	114
17	Land radiative management as contributor to regional-scale climate adaptation and mitigation. <i>Nature Geoscience</i> , 2018, 11, 88-96.	5.4	96
18	Impact of Climate Change on Voltinism and Prospective Diapause Induction of a Global Pest Insect – <i>Cydia pomonella</i> (L.). <i>PLoS ONE</i> , 2012, 7, e35723.	1.1	85

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19	Seasonal Variations in Terrestrial Water Storage for Major Midlatitude River Basins. <i>Journal of Hydrometeorology</i> , 2006, 7, 39-60.	0.7	75
20	Changes in regional climate extremes as a function of global mean temperature: an interactive plotting framework. <i>Geoscientific Model Development</i> , 2017, 10, 3609-3634.	1.3	75
21	Soil Control on Runoff Response to Climate Change in Regional Climate Model Simulations. <i>Journal of Climate</i> , 2005, 18, 3536-3551.	1.2	65
22	A site-level comparison of lysimeter and eddy covariance flux measurements of evapotranspiration. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1809-1825.	1.9	65
23	Long-term predictability of soil moisture dynamics at the global scale: Persistence versus large-scale drivers. <i>Geophysical Research Letters</i> , 2016, 43, 8554-8562.	1.5	46
24	Spatial representativeness of soil moisture using in situ, remote sensing, and land reanalysis data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9955-9964.	1.2	42
25	Downscaling climate change scenarios for apple pest and disease modeling in Switzerland. <i>Earth System Dynamics</i> , 2012, 3, 33-47.	2.7	41
26	Evapotranspiration simulations in ISIMIP2—Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. <i>Environmental Research Letters</i> , 2018, 13, 075001.	2.2	38
27	Basin-scale water-balance estimates of terrestrial water storage variations from ECMWF operational forecast analysis. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	36
28	Insuring crops from space: the potential of satellite-retrieved soil moisture to reduce farmers' drought risk exposure. <i>European Review of Agricultural Economics</i> , 2021, 48, 266-314.	1.5	33
29	New diagnostic estimates of variations in terrestrial water storage based on ERA-Interim data. <i>Hydrological Processes</i> , 2011, 25, 996-1008.	1.1	30
30	Regional climate model projections underestimate future warming due to missing plant physiological CO ₂ response. <i>Environmental Research Letters</i> , 2019, 14, 114019.	2.2	26
31	Analysis of seasonal terrestrial water storage variations in regional climate simulations over Europe. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	24
32	New data sets to estimate terrestrial water storage change. <i>Eos</i> , 2007, 88, 469-470.	0.1	22
33	Global Contributions of Incoming Radiation and Land Surface Conditions to Maximum Near-Surface Air Temperature Variability and Trend. <i>Geophysical Research Letters</i> , 2018, 45, 5034-5044.	1.5	22
34	A theoretical approach to assess soil moisture-climate coupling across CMIP5 and GLACE-CMIP5 experiments. <i>Earth System Dynamics</i> , 2018, 9, 1217-1234.	2.7	18
35	Variability of soil moisture proxies and hot days across the climate regimes of Australia. <i>Geophysical Research Letters</i> , 2017, 44, 7265-7275.	1.5	16
36	A compound event-oriented framework to tropical fire risk assessment in a changing climate. <i>Environmental Research Letters</i> , 2022, 17, 065015.	2.2	14

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37	Climate Scenarios for Switzerland CH2018 – Approach and Implications. <i>Climate Services</i> , 2022, 26, 100288.	1.0	12
38	Basin-scale water-balance dataset (BSWB): an update. <i>Earth System Science Data</i> , 2017, 9, 251-258.	3.7	11
39	Trends and drivers of recent summer drying in Switzerland. <i>Environmental Research Communications</i> , 2022, 4, 025004.	0.9	10
40	Intra-annual link of spring and autumn precipitation over France. <i>Climate Dynamics</i> , 2010, 35, 1207-1218.	1.7	9
41	Comparative Study of a Long-established Large Weighing Lysimeter and a State-of-the-Art Mini-lysimeter. <i>Vadose Zone Journal</i> , 2018, 17, 1-10.	1.3	8
42	Monthly Weather Forecasts in a Pest Forecasting Context: Downscaling, Recalibration, and Skill Improvement. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 1633-1638.	0.6	7
43	Evaluation of different methods for gap filling of long-term actual evapotranspiration time series measured by lysimeters. <i>Vadose Zone Journal</i> , 2020, 19, e20020.	1.3	7
44	MODELLING THE IMPACT OF CLIMATE CHANGE ON SUSTAINABLE MANAGEMENT OF THE CODLING MOTH (CYDIA POMONELLA) AS KEY PEST IN APPLE. <i>Acta Horticulturae</i> , 2015, , 35-42.	0.1	4
45	Applying multiple land surface temperature products to derive heat fluxes over a grassland site. <i>Remote Sensing Applications: Society and Environment</i> , 2017, 6, 15-24.	0.8	4