Tobias Sauter

List of Publications by Citations

28 papers	1,456 citations	13 h-index	37 g-index
37 ext. papers	1,679 ext. citations	6.1 avg, IF	4.35 L-index

#	Paper	IF	Citations
28	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. *Reviews of Geophysics*, **2010**, 48,	23.1	1021
27	Constraining glacier elevation and mass changes in South America. *Nature Climate Change*, **2019**, 9, 130-136	13.4	95
26	Evaluation of a Coupled Snow and Energy Balance Model for Zhadang Glacier, Tibetan Plateau, Using Glaciological Measurements and Time-Lapse Photography. *Arctic, Antarctic, and Alpine Research*, **2015**, 47, 573-590	1.8	41
25	Spatio-temporal prediction of snow cover in the Black Forest mountain range using remote sensing and a recurrent neural network. *International Journal of Climatology*, **2010**, 30, 2330-2341	3.5	32
24	Snowdrift modelling for the Vestfonna ice cap, north-eastern Svalbard. *Cryosphere*, **2013**, 7, 1287-1301	5.5	26
23	Statistical downscaling of daily temperatures in the NW Iberian Peninsula from global climate models: validation and future scenarios. *Climate Research*, **2011**, 48, 163-176	1.6	25
22	Natural Three-Dimensional Predictor Domains for Statistical Precipitation Downscaling. *Journal of Climate*, **2011**, 24, 6132-6145	4.4	24
21	Effects of local advection on the spatial sensible heat flux variation on a mountain glacier. *Cryosphere*, **2016**, 10, 2887-2905	5.5	21
20	Glacier Mass Changes of Lake-Terminating Grey and Tyndall Glaciers at the Southern Patagonia Icefield Derived From Geodetic Observations and Energy and Mass Balance Modeling. *Frontiers in Earth Science*, **2018**, 6,	3.5	16
19	Assessing the uncertainty of glacier mass-balance simulations in the European Arctic based on variance decomposition. *Geoscientific Model Development*, **2015**, 8, 3911-3928	6.3	16
18	Snow Cover Change as a Climate Indicator in Brunswick Peninsula, Patagonia. *Frontiers in Earth Science*, **2018**, 6,	3.5	16
17	Impact of two conceptual precipitation downscaling schemes on mass-balance modeling of Gran Campo Nevado ice cap, Patagonia. *Journal of Glaciology*, **2013**, 59, 1106-1116	3.4	15
16	Revisiting extreme precipitation amounts over southern South America and implications for the Patagonian Icefields. *Hydrology and Earth System Sciences*, **2020**, 24, 2003-2016	5.5	14
15	A 17-year Record of Meteorological Observations Across the Gran Campo Nevado Ice Cap in Southern Patagonia, Chile, Related to Synoptic Weather Types and Climate Modes. *Frontiers in Earth Science*, **2018**, 6,	3.5	13
14	Recent Atmospheric Variability at Kibo Summit, Kilimanjaro, and Its Relation to Climate Mode Activity. *Journal of Climate*, **2018**, 31, 3875-3891	4.4	11
13	Simulation and analysis of runoff from a partly glaciated meso-scale catchment area in Patagonia using an artificial neural network. *Hydrological Processes*, **2009**, 23, 1019-1030	3.3	11
12	Lagrangian Detection of Moisture Sources for the Southern Patagonia Icefield (19792017). *Frontiers in Earth Science*, **2018**, 6,	3.5	11

List of Publications

11	Detailed quantification of glacier elevation and mass changes in South Georgia. *Environmental Research Letters*, **2020**, 15, 034036	6.2	8
10	COSIPY v1.3 – an open-source coupled snowpack and ice surface energy and mass balance model. *Geoscientific Model Development*, **2020**, 13, 5645-5662	6.3	7
9	Degree-day modelling of the surface mass balance of Urumqi Glacier No. 1, Tian Shan, China		6
8	The Influence of Tropical Cyclones on Circulation, Moisture Transport, and Snow Accumulation at Kilimanjaro During the 2006–2007 Season. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 6919	4.4	5
7	Assessment of the uncertainty of snowpack simulations based on variance decomposition **2015**,		5
6	Flow Regimes and Föhn Types Characterize the Local Climate of Southern Patagonia. *Atmosphere*, **2020**, 11, 899	2.7	5
5	COSIPY v1.2 – An open-source coupled snowpack and ice surface energy and mass balance model **2020**,		4
4	Atmospheric controls on hydrogen and oxygen isotope composition of meteoric and surface waters in Patagonia		3
3	Snowdrift modelling for Vestfonna ice cap, north-eastern Svalbard		3
2	Surface mass balance and energy balance of the 79N Glacier (Nioghalvfjerdsfjorden, NE Greenland) modeled by linking COSIPY and Polar WRF. *Journal of Glaciology*,1-15	3.4	1
1	Subglacial discharge controls seasonal variations in the thermal structure of a glacial lake in Patagonia. *Nature Communications*, **2021**, 12, 6301	17.4	0