Kat J Bormann

List of Publications by Year
in descending order

26	1,399	516215 16	642321 23
papers	citations	h-index	g-index

26	26	26	2249
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Airborne Snow Observatory: Fusion of scanning lidar, imaging spectrometer, and physically-based modeling for mapping snow water equivalent and snow albedo. Remote Sensing of Environment, 2016, 184, 139-152.	4.6	313
2	Temperature response to future urbanization and climate change. Climate Dynamics, 2014, 42, 2183-2199.	1.7	218
3	Estimating snow-cover trends from space. Nature Climate Change, 2018, 8, 924-928.	8.1	218
4	Dust dominates high-altitude snow darkening and melt over high-mountain Asia. Nature Climate Change, 2020, 10, 1045-1051.	8.1	101
5	Spatial and temporal variability in seasonal snow density. Journal of Hydrology, 2013, 484, 63-73.	2.3	94
6	Direct Insertion of NASA Airborne Snow Observatoryâ€Derived Snow Depth Time Series Into the iSnobal Energy Balance Snow Model. Water Resources Research, 2018, 54, 8045-8063.	1.7	62
7	Comparing Aerial Lidar Observations With Terrestrial Lidar and Snowâ€Probe Transects From NASA's 2017 SnowEx Campaign. Water Resources Research, 2019, 55, 6285-6294.	1.7	49
8	Impact of light-absorbing particles on snow albedo darkening and associated radiative forcing over high-mountain Asia: high-resolution WRF-Chem modeling and new satellite observations. Atmospheric Chemistry and Physics, 2019, 19, 7105-7128.	1.9	46
9	Satellite based observations for seasonal snow cover detection and characterisation in Australia. Remote Sensing of Environment, 2012, 123, 57-71.	4.6	40
10	Watershed-scale mapping of fractional snow cover under conifer forest canopy using lidar. Remote Sensing of Environment, 2019, 222, 34-49.	4.6	33
11	Multi-sensor fusion using random forests for daily fractional snow cover at 30Âm. Remote Sensing of Environment, 2021, 264, 112608.	4.6	29
12	Constraining snowmelt in a temperature-index model using simulated snow densities. Journal of Hydrology, 2014, 517, 652-667.	2.3	25
13	Mapping Snow Depth From Ka-Band Interferometry: Proof of Concept and Comparison With Scanning Lidar Retrievals. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 886-890.	1.4	25
14	Highâ€Elevation Evapotranspiration Estimates During Drought: Using Streamflow and NASA Airborne Snow Observatory SWE Observations to Close the Upper Tuolumne River Basin Water Balance. Water Resources Research, 2018, 54, 746-766.	1.7	24
15	A High-Resolution Data Assimilation Framework for Snow Water Equivalent Estimation across the Western United States and Validation with the Airborne Snow Observatory. Journal of Hydrometeorology, 2019, 20, 357-378.	0.7	24
16	Using the Airborne Snow Observatory to Assess Remotely Sensed Snowfall Products in the California Sierra Nevada. Water Resources Research, 2018, 54, 7331-7346.	1.7	22
17	Regional climate model projections of the South Pacific Convergence Zone. Climate Dynamics, 2016, 47, 817-829.	1.7	16
18	Evaluation of VIIRS and MODIS Snow Cover Fraction in High-Mountain Asia Using Landsat 8 OLI. Frontiers in Remote Sensing, 2021, 2, .	1.3	16

#	Article	IF	Citations
19	Fusion of NASA Airborne Snow Observatory (ASO) Lidar Time Series over Mountain Forest Landscapes. Remote Sensing, 2018, 10, 164.	1.8	14
20	Quantifying the Spatial Variability of a Snowstorm Using Differential Airborne Lidar. Water Resources Research, 2020, 56, e2019WR025331.	1.7	11
21	From Drought to Flood: A Water Balance Analysis of the Tuolumne River Basin during Extreme Conditions (2015 â€“ 2017). Hydrological Processes, 2020, 34, 2560.	1.1	10
22	Ecosystem responses to elevated CO₂ using airborne remote sensing at Mammoth Mountain, California. Biogeosciences, 2018, 15, 7403-7418.	1.3	7
23	Paths to research-driven decision making in the realms of environment and water. Technology in Society, 2022, 70, 101994.	4.8	2
24	Mapping snow-depth using KA-band InSAR: Calibration and validation during SnowEx. , 2017, , .		0
25	The airborne snow observatory during NASA snow experiment (SnowEx) year 1: Mapping of snow water equivalent and snow albedo and constraining understanding of the physical environment. , 2017, , .		0
26	Fusion of Multiple Low-Resolution NASA Airborne Snow Observatory (ASO) Lidar Data for Forest Vegetation Structure Caracterization. , 2018, , .		0