Nicolas J Cullen

List of Publications by Year
in descending order

44 papers	1,852 citations	257429 24 h-index	276858 41 g-index
56 all docs	56 docs citations	56 times ranked	1856 citing authors

#	Article	IF	Citations
1	Representing spatial variability of snow water equivalent in hydrologic and landâ€surface models: A review. Water Resources Research, 2011, 47, .	4.2	275
2	Mass balance of a slope glacier on Kilimanjaro and its sensitivity to climate. International Journal of Climatology, 2008, 28, 881-892.	3.5	130
3	Measurements of hydrogen peroxide and formaldehyde exchange between the atmosphere and surface snow at Summit, Greenland. Atmospheric Environment, 2002, 36, 2619-2628.	4.1	114
4	Quantifying Climate Change in the Tropical Midtroposphere over East Africa from Glacier Shrinkage on Kilimanjaro. Journal of Climate, 2009, 22, 4162-4181.	3.2	114
5	The unprecedented coupled ocean-atmosphere summer heatwave in the New Zealand region 2017/18: drivers, mechanisms and impacts. Environmental Research Letters, 2019, 14, 044023.	5.2	111
6	Energy-balance model validation on the top of Kilimanjaro, Tanzania, using eddy covariance data. Annals of Glaciology, 2007, 46, 227-233.	1.4	70
7	Kilimanjaro Glaciers: Recent areal extent from satellite data and new interpretation of observed 20th century retreat rates. Geophysical Research Letters, 2006, 33, .	4.0	68
8	Solar radiation, cloudiness and longwave radiation over low-latitude glaciers: implications for mass-balance modelling. Journal of Glaciology, 2009, 55, 292-302.	2.2	66
9	Ozone and meteorological boundary-layer conditions at Summit, Greenland, during 3â€"21 June 2000. Atmospheric Environment, 2002, 36, 2595-2608.	4.1	55
10	A century of ice retreat on Kilimanjaro: the mapping reloaded. Cryosphere, 2013, 7, 419-431.	3.9	54
11	Temporal precipitation variability versus altitude on a tropical high mountain: Observations and mesoscale atmospheric modelling. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1439-1455.	2.7	51
12	A 22 month record of surface meteorology and energy balance from the ablation zone of Brewster Glacier, New Zealand. Journal of Glaciology, 2015, 61, 931-946.	2.2	49
13	Atmospheric controls on summer ablation over Brewster Glacier, New Zealand. International Journal of Climatology, 2011, 31, 2033-2048.	3.5	43
14	Nonstationarity of turbulent heat fluxes at Summit, Greenland. Boundary-Layer Meteorology, 2007, 122, 439-455.	2.3	41
15	Reconstructing the mass balance of Brewster Glacier, New Zealand, using MODIS-derived glacier-wide albedo. Cryosphere, 2016, 10, 2465-2484.	3.9	34
16	The Role of Atmospheric Rivers for Extreme Ablation and Snowfall Events in the Southern Alps of New Zealand. Geophysical Research Letters, 2019, 46, 2761-2771.	4.0	34
17	Indian Ocean zonal mode activity in a multicentury integration of a coupled AOGCM consistent with climate proxy data. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	33
18	Cloud effects on surface energy and mass balance in the ablation area of Brewster Glacier, New Zealand. Cryosphere, 2016, 10, 313-328.	3.9	29

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19	Investigation of the role of the snowpack on atmospheric formaldehyde chemistry at Summit, Greenland. Journal of Geophysical Research, 2002, 107, ACH 9-1.	3.3	27
20	How do Stability Corrections Perform in the Stable Boundary Layer Over Snow?. Boundary-Layer Meteorology, 2017, 165, 161-180.	2.3	27
21	A Climatology of Atmospheric Rivers in New Zealand. Journal of Climate, 2021, 34, 4383-4402.	3.2	27
22	Unstable near-surface boundary conditions in summer on top of the Greenland Ice Sheet. Geophysical Research Letters, 2001, 28, 4491-4493.	4.0	26
23	Comment on â€œRecent glacial recession in the Rwenzori Mountains of East Africa due to rising air temperatureâ€• by Richard G. Taylor, Lucinda Mileham, Callist Tindimugaya, Abushen Majugu, Andrew Muwanga, and Bob Nakileza. Geophysical Research Letters, 2006, 33, .	4.0	26
24	Allâ€sky radiation over a glacier surface in the Southern Alps of New Zealand: characterizing cloud effects on incoming shortwave, longwave and net radiation. International Journal of Climatology, 2015, 35, 699-713.	3.5	26
25	An 11-year record of mass balance of Brewster Glacier, New Zealand, determined using a geostatistical approach. Journal of Glaciology, 2017, 63, 199-217.	2.2	26
26	Intercomparison of different uncertainty sources in hydrological climate change projections for an alpine catchment (upper Clutha River, New Zealand). Hydrology and Earth System Sciences, 2018, 22, 3125-3142.	4.9	26
27	Assessing the role of sublimation in the dry snow zone of the Greenland ice sheet in a warming world. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6563-6577.	3.3	25
28	Combining thin-plate spline interpolation with a lapse rate model to produce daily air temperature estimates in a data-sparse alpine catchment. International Journal of Climatology, 2017, 37, 214-229.	3.5	21
29	Land-based marginal ice cliffs: Focus on Kilimanjaro. Erdkunde, 2010, 64, 179-193.	0.8	20
30	Ground-penetrating radar reveals ice thickness and undisturbed englacial layers at Kilimanjaro's Northern Ice Field. Cryosphere, 2017, 11, 469-482.	3.9	19
31	Repeat mapping of snow depth across an alpine catchment with RPAS photogrammetry. Cryosphere, 2018, 12, 3477-3497.	3.9	19
32	Regional Variability in New Zealandâ€™s Wind Resource Linked to Synoptic-Scale Circulation: Implications for Generation Reliability. Journal of Applied Meteorology and Climatology, 2015, 54, 944-958.	1.5	14
33	The Influence of Weather Systems in Controlling Mass Balance in the Southern Alps of New Zealand. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4514-4529.	3.3	14
34	Synoptic and sub-synoptic circulation effects on wind resource variability â€“ A case study from a coastal terrain setting in New Zealand. Renewable Energy, 2015, 78, 253-263.	8.9	12
35	Understanding and Predicting the Fate of Semivolatile Organic Pesticides in a Glacier-Fed Lake Using a Multimedia Chemical Fate Model. Environmental Science & Technology, 2017, 51, 11752-11760.	10.0	11
36	Variability in glacier albedo and links to annual mass balance for the gardens of Eden and Allah, Southern Alps, New Zealand. Cryosphere, 2020, 14, 3425-3448.	3.9	11

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37	Southern Alps equilibrium line altitudes: four decades of observations show coherent glacierâ€"climate responses and a rising snowline trend. Journal of Glaciology, 2022, 68, 1127-1140.	2.2	11
38	Mesoscale atmospheric circulation controls of local meteorological elevation gradients on Kersten Glacier near Kilimanjaro summit. Earth System Dynamics, 2020, 11, 653-672.	7.1	10
39	Glacier loss on Kilimanjaro is an exceptional case. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, E68; author reply E69-70.	7.1	8
40	Evaluating Predictor Strategies for Regression-Based Downscaling with a Focus on Glacierized Mountain Environments. Journal of Applied Meteorology and Climatology, 2017, 56, 1707-1729.	1.5	7
41	Characterising spatio-temporal variability in seasonal snow cover at a regional scale from MODIS data: the Clutha Catchment, New Zealand. Hydrology and Earth System Sciences, 2019, 23, 3189-3217.	4.9	7
42	A Detailed, Multiâ€Scale Assessment of an Atmospheric River Event and Its Impact on Extreme Glacier Melt in the Southern Alps of New Zealand. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034217.	3.3	5
43	Microclimate and mass fluxes of debris-laden ice surfaces in Taylor Valley, Antarctica. Antarctic Science, 2015, 27, 85-100.	0.9	4
44	A decade of surface meteorology and radiation fluxes at Brewster Glacier in the Southern Alps of New Zealand. International Journal of Climatology, 2022, 42, 1612-1631.	3.5	3