

Nicolas J Cullen

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,852
citations

257450

24
h-index

276875

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 land-surface models: A review. <i>Water Resources Research</i> , 2011, 47, .	4.2	275
2	Mass balance of a slope glacier on Kilimanjaro and its sensitivity to climate. <i>International Journal of Climatology</i> , 2008, 28, 881-892.	3.5	130
3	Measurements of hydrogen peroxide and formaldehyde exchange between the atmosphere and surface snow at Summit, Greenland. <i>Atmospheric Environment</i> , 2002, 36, 2619-2628.	4.1	114
4	Quantifying Climate Change in the Tropical Midtroposphere over East Africa from Glacier Shrinkage on Kilimanjaro. <i>Journal of Climate</i> , 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. <i>Environmental Research Letters</i> , 2019, 14, 044023.	5.2	111
6	Energy-balance model validation on the top of Kilimanjaro, Tanzania, using eddy covariance data. <i>Annals of Glaciology</i> , 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. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	68
8	Solar radiation, cloudiness and longwave radiation over low-latitude glaciers: implications for mass-balance modelling. <i>Journal of Glaciology</i> , 2009, 55, 292-302.	2.2	66
9	Ozone and meteorological boundary-layer conditions at Summit, Greenland, during 3-21 June 2000. <i>Atmospheric Environment</i> , 2002, 36, 2595-2608.	4.1	55
10	A century of ice retreat on Kilimanjaro: the mapping reloaded. <i>Cryosphere</i> , 2013, 7, 419-431.	3.9	54
11	Temporal precipitation variability versus altitude on a tropical high mountain: Observations and mesoscale atmospheric modelling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 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. <i>Journal of Glaciology</i> , 2015, 61, 931-946.	2.2	49
13	Atmospheric controls on summer ablation over Brewster Glacier, New Zealand. <i>International Journal of Climatology</i> , 2011, 31, 2033-2048.	3.5	43
14	Nonstationarity of turbulent heat fluxes at Summit, Greenland. <i>Boundary-Layer Meteorology</i> , 2007, 122, 439-455.	2.3	41
15	Reconstructing the mass balance of Brewster Glacier, New Zealand, using MODIS-derived glacier-wide albedo. <i>Cryosphere</i> , 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. <i>Geophysical Research Letters</i> , 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. <i>Geophysical Research Letters</i> , 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. <i>Cryosphere</i> , 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. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 9-1.	3.3	27
20	How do Stability Corrections Perform in the Stable Boundary Layer Over Snow?. <i>Boundary-Layer Meteorology</i> , 2017, 165, 161-180.	2.3	27
21	A Climatology of Atmospheric Rivers in New Zealand. <i>Journal of Climate</i> , 2021, 34, 4383-4402.	3.2	27
22	Unstable near-surface boundary conditions in summer on top of the Greenland Ice Sheet. <i>Geophysical Research Letters</i> , 2001, 28, 4491-4493.	4.0	26
23	Comment on “Recent glacial recession in the Rwenzori Mountains of East Africa due to rising air temperature” by Richard G. Taylor, Lucinda Mileham, Callist Tindimugaya, Abushen Majugu, Andrew Muwanga, and Bob Nakileza. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	26
24	All-sky radiation over a glacier surface in the Southern Alps of New Zealand: characterizing cloud effects on incoming shortwave, longwave and net radiation. <i>International Journal of Climatology</i> , 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. <i>Journal of Glaciology</i> , 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). <i>Hydrology and Earth System Sciences</i> , 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. <i>Journal of Geophysical Research D: Atmospheres</i> , 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. <i>International Journal of Climatology</i> , 2017, 37, 214-229.	3.5	21
29	Land-based marginal ice cliffs: Focus on Kilimanjaro. <i>Erdkunde</i> , 2010, 64, 179-193.	0.8	20
30	Ground-penetrating radar reveals ice thickness and undisturbed englacial layers at Kilimanjaro's Northern Ice Field. <i>Cryosphere</i> , 2017, 11, 469-482.	3.9	19
31	Repeat mapping of snow depth across an alpine catchment with RPAS photogrammetry. <i>Cryosphere</i> , 2018, 12, 3477-3497.	3.9	19
32	Regional Variability in New Zealand's Wind Resource Linked to Synoptic-Scale Circulation: Implications for Generation Reliability. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 944-958.	1.5	14
33	The Influence of Weather Systems in Controlling Mass Balance in the Southern Alps of New Zealand. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4514-4529.	3.3	14
34	Synoptic and sub-synoptic circulation effects on wind resource variability – A case study from a coastal terrain setting in New Zealand. <i>Renewable Energy</i> , 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. <i>Environmental Science & Technology</i> , 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. <i>Cryosphere</i> , 2020, 14, 3425-3448.	3.9	11

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37	Southern Alps equilibrium line altitudes: four decades of observations show coherent glacierâ€ˆclimate responses and a rising snowline trend. <i>Journal of Glaciology</i> , 2022, 68, 1127-1140.	2.2	11
38	Mesoscale atmospheric circulation controls of local meteorological elevation gradients on Kersten Glacier near Kilimanjaro summit. <i>Earth System Dynamics</i> , 2020, 11, 653-672.	7.1	10
39	Glacier loss on Kilimanjaro is an exceptional case. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Journal of Applied Meteorology and Climatology</i> , 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. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3189-3217.	4.9	7
42	A Detailed, Multiâ€ˆScale Assessment of an Atmospheric River Event and Its Impact on Extreme Glacier Melt in the Southern Alps of New Zealand. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034217.	3.3	5
43	Microclimate and mass fluxes of debris-laden ice surfaces in Taylor Valley, Antarctica. <i>Antarctic Science</i> , 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. <i>International Journal of Climatology</i> , 2022, 42, 1612-1631.	3.5	3