

# Helen C Ward

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,336  
citations

361413

20  
h-index

345221

36  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold-Air Pool Processes in the Inn Valley During Föhn: A Comparison of Four Cases During the PIANO Campaign. <i>Boundary-Layer Meteorology</i> , 2022, 182, 335-362.	2.3	7
2	A Collaborative Effort to Better Understand, Measure, and Model Atmospheric Exchange Processes over Mountains. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1282-E1295.	3.3	7
3	Influence of grid resolution of large-eddy simulations on foehn-cold pool interaction. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1840-1863.	2.7	5
4	Direct observations of CO2 emission reductions due to COVID-19 lockdown across European urban districts. <i>Science of the Total Environment</i> , 2022, 830, 154662.	8.0	37
5	Energy and mass exchange at an urban site in mountainous terrain – the Alpine city of Innsbruck. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6559-6593.	4.9	4
6	Quantifying Turbulence Heterogeneity in a Vineyard Using Eddy-Covariance and Scintillometer Measurements. <i>Boundary-Layer Meteorology</i> , 2022, 184, 479-504.	2.3	6
7	Large-eddy simulation of foehn-cold pool interactions in the Inn Valley during PIANO IOP2. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 944-982.	2.7	17
8	Scintillometers. <i>Springer Handbooks</i> , 2021, , 969-997.	0.6	2
9	Urban Measurements and Their Interpretation. <i>Springer Handbooks</i> , 2021, , 1391-1423.	0.6	4
10	Transpiration from subarctic deciduous woodlands: Environmental controls and contribution to ecosystem evapotranspiration. <i>Ecohydrology</i> , 2020, 13, e2190.	2.4	12
11	Urban signals in high-resolution weather and climate simulations: role of urban land-surface characterisation. <i>Theoretical and Applied Climatology</i> , 2020, 142, 701-728.	2.8	21
12	Foehn-cold pool interactions in the Inn Valley during PIANO IOP2. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1232-1263.	2.7	19
13	Studying Urban Climate and Air Quality in the Alps: The Innsbruck Atmospheric Observatory. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E488-E507.	3.3	17
14	Air Quality of the Urban Alps: Innsbruck's new observatory. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, 492-498.	3.3	0
15	Spatial Modeling of Local-Scale Biogenic and Anthropogenic Carbon Dioxide Emissions in Helsinki. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8363-8384.	3.3	27
16	Aerodynamic roughness variation with vegetation: analysis in a suburban neighbourhood and a city park. <i>Urban Ecosystems</i> , 2018, 21, 227-243.	2.4	17
17	On the exchange of sensible and latent heat between the atmosphere and melting snow. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 167-174.	4.8	7
18	Impact of temporal resolution of precipitation forcing data on modelled urban-atmosphere exchanges and surface conditions. <i>International Journal of Climatology</i> , 2018, 38, 649-662.	3.5	8

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19	Sensitivity of Surface Urban Energy and Water Balance Scheme (SUEWS) to downscaling of reanalysis forcing data. <i>Urban Climate</i> , 2018, 23, 36-52.	5.7	21
20	Urban Multi-scale Environmental Predictor (UMEP): An integrated tool for city-based climate services. <i>Environmental Modelling and Software</i> , 2018, 99, 70-87.	4.5	171
21	Evaluation of the Surface Urban Energy and Water Balance Scheme (SUEWS) at a Dense Urban Site in Shanghai: Sensitivity to Anthropogenic Heat and Irrigation. <i>Journal of Hydrometeorology</i> , 2018, 19, 1983-2005.	1.9	29
22	Variability of urban surface temperatures and implications for aerodynamic energy exchange in unstable conditions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1719-1741.	2.7	17
23	Scintillometry in urban and complex environments: a review. <i>Measurement Science and Technology</i> , 2017, 28, 064005.	2.6	34
24	Developing a Research Strategy to Better Understand, Observe, and Simulate Urban Atmospheric Processes at Kilometer to Subkilometer Scales. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, ES261-ES264.	3.3	40
25	Assessing the impact of changes in surface cover, human behaviour and climate on energy partitioning across Greater London. <i>Landscape and Urban Planning</i> , 2017, 165, 142-161.	7.5	36
26	Attribution and mitigation of heat wave-induced urban heat storage change. <i>Environmental Research Letters</i> , 2017, 12, 114007.	5.2	35
27	Spatial and temporal patterns of surface-atmosphere energy exchange in a dense urban environment using scintillometry. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 817-833.	2.7	22
28	Soil water content in southern England derived from a cosmic-ray soil moisture observing system "COSMOS"UK. <i>Hydrological Processes</i> , 2016, 30, 4987-4999.	2.6	102
29	Surface Urban Energy and Water Balance Scheme (SUEWS): Development and evaluation at two UK sites. <i>Urban Climate</i> , 2016, 18, 1-32.	5.7	83
30	Effects of urban density on carbon dioxide exchanges: Observations of dense urban, suburban and woodland areas of southern England. <i>Environmental Pollution</i> , 2015, 198, 186-200.	7.5	84
31	Reply to 'Drivers of the 2013/14 winter floods in the UK'. <i>Nature Climate Change</i> , 2015, 5, 491-492.	18.8	2
32	Infrared and millimetre-wave scintillometry in the suburban environment "Part 1: Structure parameters. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1385-1405.	3.1	21
33	Infrared and millimetre-wave scintillometry in the suburban environment "Part 2: Large-area sensible and latent heat fluxes. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1407-1424.	3.1	26
34	Environmental and Vegetation Drivers of Seasonal CO <sub>2</sub> Fluxes in a Sub-arctic Forest "Mire Ecotone. <i>Ecosystems</i> , 2014, 17, 377-393.	3.4	15
35	Multi-Scale Sensible Heat Fluxes in the Suburban Environment from Large-Aperture Scintillometry and Eddy Covariance. <i>Boundary-Layer Meteorology</i> , 2014, 152, 65-89.	2.3	41
36	Potential influences on the United Kingdom's floods of winter 2013/14. <i>Nature Climate Change</i> , 2014, 4, 769-777.	18.8	149

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37	A critical revision of the estimation of the latent heat flux from two-wavelength scintillometry. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1912-1922.	2.7	23
38	Wind observations above an urban river using a new lidar technique, scintillometry and anemometry. Science of the Total Environment, 2013, 442, 527-533.	8.0	33
39	Upscaling Tundra CO <sub>2</sub> Exchange from Chamber to Eddy Covariance Tower. Arctic, Antarctic, and Alpine Research, 2013, 45, 275-284.	1.1	22
40	Multi-season eddy covariance observations of energy, water and carbon fluxes over a suburban area in Swindon, UK. Atmospheric Chemistry and Physics, 2013, 13, 4645-4666.	4.9	96
41	Effects of Non-Uniform Crosswind Fields on Scintillometry Measurements. Boundary-Layer Meteorology, 2011, 141, 143-163.	2.3	10