Duncan Whyatt

List of Publications by Year in descending order

66 papers	2,064 citations	279798 23 h-index	254184 43 g-index
66 all docs	66 docs citations	66 times ranked	2822 citing authors

#	Article	IF	Citations
1	Global land cover trajectories and transitions. Scientific Reports, 2021, 11, 12814.	3.3	29
2	Ground-mounted photovoltaic solar parks promote land surface cool islands in arid ecosystems. Renewable and Sustainable Energy Transition, 2021, 1, 100008.	2.9	7
3	Achieving national scale targets for carbon sequestration through afforestation: Geospatial assessment of feasibility and policy implications. Environmental Science and Policy, 2021, 124, 279-292.	4.9	12
4	Honeybee pollination benefits could inform solar park business cases, planning decisions and environmental sustainability targets. Biological Conservation, 2021, 263, 109332.	4.1	8
5	The novel use of proximal photogrammetry and terrestrial LiDAR to quantify the structural complexity of orchard trees. Precision Agriculture, 2020, 21, 473-483.	6.0	13
6	Quantifying the recent expansion of native invasive rush species in a UK upland environment. Annals of Applied Biology, 2020, 177, 243-255.	2.5	4
7	The influence of land cover data on farm-scale valuations of natural capital. Ecosystem Services, 2020, 42, 101065.	5.4	6
8	Networks of (Dis)connection: Mobility Practices, Tertiary Streets, and Sectarian Divisions in North Belfast. Annals of the American Association of Geographers, 2019, 109, 1729-1747.	2.2	6
9	Particulate Matter Measurement Indoors: A Review of Metrics, Sensors, Needs, and Applications. Environmental Science & Technology, 2019, 53, 11644-11656.	10.0	47
10	Characterizing beach intertidal bar systems using multiâ€annual LiDAR data. Earth Surface Processes and Landforms, 2019, 44, 1572-1583.	2.5	18
11	ARBOR: A new framework for assessing the accuracy of individual tree crown delineation from remotely-sensed data. Remote Sensing of Environment, 2019, 231, 111256.	11.0	5
12	Dramatic Loss of Agricultural Land Due to Urban Expansion Threatens Food Security in the Nile Delta, Egypt. Remote Sensing, 2019, 11, 332.	4.0	85
13	Urban form strongly mediates the allometric scaling of airshed pollution concentrations. Environmental Research Letters, 2019, 14, 124078.	5.2	3
14	Exploring Segregation and Sharing in Belfast: A PGIS Approach. Annals of the American Association of Geographers, 2019, 109, 223-241.	2.2	18
15	Using fractal analysis of crown images to measure the structural condition of trees. Forestry, 2018, 91, 480-491.	2.3	4
16	Quantifying the exposure of humans and the environment to oil pollution in the Niger Delta using advanced geostatistical techniques. Environment International, 2018, 111, 32-42.	10.0	46
17	Negotiating the ground: â€˜mobilizingâ€™ a divided field site in the â€˜post-conflictâ€™ city. Mobilities, 2018, 13, 876-893.	3.8	8
18	A Perfect Storm? The collapse of Lancaster's critical infrastructure networks following intense rainfall on 4/5 December 2015. Weather, 2017, 72, 3-7.	0.7	15

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19	What controls the magnitude of the daytime heat sink in a desert city?. Applied Geography, 2017, 80, 1-14.	3.7	9
20	An analysis of the likely success of policy actions under uncertainty: Recovery from acidification across Great Britain. Environmental Science and Policy, 2017, 73, 124-132.	4.9	1
21	Spatio-temporal challenges in representing wildlife disturbance within a GIS. Environmental Technology and Innovation, 2017, 7, 44-53.	6.1	1
22	Dynamics and controls of urban heat sink and island phenomena in a desert city: Development of a local climate zone scheme using remotely-sensed inputs. International Journal of Applied Earth Observation and Geoinformation, 2016, 51, 76-90.	2.8	67
23	Renewable energy scenarios: Exploring technology, acceptance and climate â€“ Options at the community-scale. Applied Geography, 2016, 74, 73-83.	3.7	3
24	How well is current plant trait composition predicted by modern and historical forest spatial configuration?. Ecography, 2016, 39, 67-76.	4.5	9
25	Towards the integration of urban planning and biodiversity conservation through collaboration. Environmental Technology and Innovation, 2015, 4, 218-226.	6.1	3
26	â€˜Itâ€™s everything else you doâ€¦â€™: Alumni views on extracurricular activities and employability. Active Learning in Higher Education, 2015, 16, 133-147.	5.4	70
27	Contributions of gas flaring to a global air pollution hotspot: Spatial and temporal variations, impacts and alleviation. Atmospheric Environment, 2015, 118, 184-193.	4.1	35
28	Detecting gas flares and estimating flaring volumes at individual flow stations using MODIS data. Remote Sensing of Environment, 2015, 158, 81-94.	11.0	48
29	â€œThey made gunpowderâ€‰â€¦â€‰yes down by the river there, that's your energy sourceâ€: attitudes towards community renewable energy in Cumbria. Local Environment, 2014, 19, 915-932.	2.4	7
30	Traits of plant communities in fragmented forests: the relative influence of habitat spatial configuration and local abiotic conditions. Journal of Ecology, 2014, 102, 632-640.	4.0	28
31	Satellite survey of gas flares: development and application of a Landsat-based technique in the Niger Delta. International Journal of Remote Sensing, 2014, 35, 1900-1925.	2.9	39
32	Spraycan: A PPGIS for capturing imprecise notions of place. Applied Geography, 2014, 55, 229-237.	3.7	44
33	A network-based approach for estimating pedestrian journey-time exposure to air pollution. Science of the Total Environment, 2014, 485-486, 62-70.	8.0	21
34	Developing the desert: The pace and process of urban growth in Dubai. Computers, Environment and Urban Systems, 2014, 45, 50-62.	7.1	61
35	How Reliable are CitizenâEDerived Scientific Data? Assessing the Quality of Contrail Observations Made by the General Public. Transactions in GIS, 2013, 17, 488-506.	2.3	25
36	Investigating the impacts of anthropogenic and biogenic VOC emissions and elevated temperatures during the 2003 ozone episode in the UK. Atmospheric Environment, 2013, 74, 393-401.	4.1	17

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37	Identifying the trait syndromes of conservation indicator species: how distinct are <scp>B</scp>ritish ancient woodland indicator plants from other woodland species?. Applied Vegetation Science, 2013, 16, 667-675.	1.9	39
38	Conditional extraction of air-pollutant source signals from air-quality monitoring. Atmospheric Environment, 2013, 74, 112-122.	4.1	18
39	â€˜Itâ€™s just like an extra string to your bowâ€™: Exploring higher education studentsâ€™ perceptions and experiences of extracurricular activity and employability. Active Learning in Higher Education, 2013, 14, 135-147.	5.4	100
40	A futures-based analysis for urban air quality remediation. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2012, 165, 21-36.	0.7	12
41	Benchmarking sustainability in cities: The role of indicators and future scenarios. Global Environmental Change, 2012, 22, 245-254.	7.8	105
42	A regional-scale assessment of local renewable energy resources in Cumbria, UK. Energy Policy, 2012, 50, 283-293.	8.8	21
43	Scenario Archetypes: Converging Rather than Diverging Themes. Sustainability, 2012, 4, 740-772.	3.2	136
44	Effectiveness of Green Infrastructure for Improvement of Air Quality in Urban Street Canyons. Environmental Science & Technology, 2012, 46, 7692-7699.	10.0	482
45	Teaching Geographical Information Systems in Geography Degrees: A Critical Reassessment of Vocationalism. Journal of Geography in Higher Education, 2011, 35, 233-244.	2.6	19
46	Understanding the School Journey: Integrating Data on Travel and Environment. Environment and Planning A, 2010, 42, 948-965.	3.6	45
47	Using GIS to Investigate Spatial and Temporal Variations in Upland Rainfall. Transactions in GIS, 2010, 14, 265-282.	2.3	2
48	Impacts of pollution and climate change on ombrotrophic Sphagnum species in the UK: analysis of uncertainties in two empirical niche models. Climate Research, 2010, 45, 163-177.	1.1	20
49	Development and application of topographic descriptors for conditional analysis of rainfall. Atmospheric Science Letters, 2009, 10, 177-184.	1.9	8
50	Effect of traffic pollution on respiratory and allergic disease in adults: cross-sectional and longitudinal analyses. BMC Pulmonary Medicine, 2009, 9, 42.	2.0	33
51	A Leastâ€Cost Approach to Personal Exposure Reduction. Transactions in GIS, 2009, 13, 229-246.	2.3	17
52	Talk, technologies and teenagers: understanding the school journey using a mixed-methods approach. Children's Geographies, 2009, 7, 107-122.	2.3	37
53	Aerosol Evolution from a Busy Road in North-West England. Meteorologische Zeitschrift, 2009, 18, 55-60.	1.0	7
54	An investigation into the origins of a series of PM10 anomalies at a remote location in NW England. Journal of Environmental Monitoring, 2008, 10, 1033.	2.1	4

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55	Long-term variations in orographic rainfall: analysis and implications for upland catchments. Hydrological Sciences Journal, 2007, 52, 276-291.	2.6	39
56	Presentation of the influence of deposition uncertainties on acidity critical load exceedance across Wales. Environmental Science and Policy, 2006, 9, 32-45.	4.9	5
57	Optimising the environmental benefits of emission reductions from UK coal- and oil-fired power stations: a critical loads approach. Environmental Science and Policy, 2004, 7, 451-463.	4.9	6
58	Title is missing!. Water, Air, and Soil Pollution, 1998, 107, 121-145.	2.4	16
59	Stand dynamics in Mpanga Research Forest Reserve, Uganda, 1968â€“1993. Journal of Tropical Ecology, 1996, 12, 583-597.	1.1	18
60	Measurements of precipitation composition at UK EMEP sites 1987?1992 and comparison with the HARM model. Water, Air, and Soil Pollution, 1995, 85, 1961-1966.	2.4	0
61	Spatial variability in emissions reduction strategies for sulphur and nitrogen in the UK. Water, Air, and Soil Pollution, 1995, 85, 2619-2624.	2.4	7
62	A comparison of model and observed network estimates of sulphur deposition across Great Britain for 1990 and its likely source attribution. Quarterly Journal of the Royal Meteorological Society, 1995, 121, 1387-1411.	2.7	30
63	Who to Blame for Acid Rain? A Regional Study of Acid Deposition in Yorkshire and Humberside. Transactions of the Institute of British Geographers, 1995, 20, 58.	2.9	3
64	Modelling future acid depositionâ˜†A critical loads approach. Global Environmental Change, 1994, 4, 125-139.	7.8	3
65	A parallel implementation of the douglas-peucker line simplification algorithm. Software - Practice and Experience, 1991, 21, 331-336.	3.6	9
66	Going solo: studentsâ€™ strategies for coping with an independent GIS project. Journal of Geography in Higher Education, 0, , 1-18.	2.6	1