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	Effectiveness of Green Infrastructure for Improvement of Air Quality in Urban Street Canyons. Environmental Science & Technology, 2012, 46, 7692-7699.	10.0	482
2	Scenario Archetypes: Converging Rather than Diverging Themes. Sustainability, 2012, 4, 740-772.	3.2	136
3	Benchmarking sustainability in cities: The role of indicators and future scenarios. Global Environmental Change, 2012, 22, 245-254.	7.8	105
4	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
5	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
6	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
7	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
8	Developing the desert: The pace and process of urban growth in Dubai. Computers, Environment and Urban Systems, 2014, 45, 50-62.	7.1	61
9	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
10	Particulate Matter Measurement Indoors: A Review of Metrics, Sensors, Needs, and Applications. Environmental Science & Technology, 2019, 53, 11644-11656.	10.0	47
11	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
12	Understanding the School Journey: Integrating Data on Travel and Environment. Environment and Planning A, 2010, 42, 948-965.	3.6	45
13	Spraycan: A PPGIS for capturing imprecise notions of place. Applied Geography, 2014, 55, 229-237.	3.7	44
14	Long-term variations in orographic rainfall: analysis and implications for upland catchments. Hydrological Sciences Journal, 2007, 52, 276-291.	2.6	39
15	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
16	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
17	Talk, technologies and teenagers: understanding the school journey using a mixed-methods approach. Children's Geographies, 2009, 7, 107-122.	2.3	37
18	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

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19	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
20	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
21	Global land cover trajectories and transitions. Scientific Reports, 2021, 11, 12814.	3.3	29
22	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
23	How Reliable are Citizenâ€Derived Scientific Data? Assessing the Quality of Contrail Observations Made by the General Public. Transactions in GIS, 2013, 17, 488-506.	2.3	25
24	A regional-scale assessment of local renewable energy resources in Cumbria, UK. Energy Policy, 2012, 50, 283-293.	8.8	21
25	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
26	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
27	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
28	Stand dynamics in Mpanga Research Forest Reserve, Uganda, 1968â€“1993. Journal of Tropical Ecology, 1996, 12, 583-597.	1.1	18
29	Conditional extraction of air-pollutant source signals from air-quality monitoring. Atmospheric Environment, 2013, 74, 112-122.	4.1	18
30	Characterizing beach intertidal bar systems using multiâ€annual LiDAR data. Earth Surface Processes and Landforms, 2019, 44, 1572-1583.	2.5	18
31	Exploring Segregation and Sharing in Belfast: A PGIS Approach. Annals of the American Association of Geographers, 2019, 109, 223-241.	2.2	18
32	A Leastâ€Cost Approach to Personal Exposure Reduction. Transactions in GIS, 2009, 13, 229-246.	2.3	17
33	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
34	Title is missing!. Water, Air, and Soil Pollution, 1998, 107, 121-145.	2.4	16
35	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
36	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

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37	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
38	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
39	A parallel implementation of the douglas-peucker line simplification algorithm. Software - Practice and Experience, 1991, 21, 331-336.	3.6	9
40	How well is current plant trait composition predicted by modern and historical forest spatial configuration?. Ecography, 2016, 39, 67-76.	4.5	9
41	What controls the magnitude of the daytime heat sink in a desert city?. Applied Geography, 2017, 80, 1-14.	3.7	9
42	Development and application of topographic descriptors for conditional analysis of rainfall. Atmospheric Science Letters, 2009, 10, 177-184.	1.9	8
43	Negotiating the ground: â€˜mobilizingâ€™ a divided field site in the â€˜post-conflictâ€™ city. Mobilities, 2018, 13, 876-893.	3.8	8
44	Honeybee pollination benefits could inform solar park business cases, planning decisions and environmental sustainability targets. Biological Conservation, 2021, 263, 109332.	4.1	8
45	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
46	Aerosol Evolution from a Busy Road in North-West England. Meteorologische Zeitschrift, 2009, 18, 55-60.	1.0	7
47	â€œThey made gunpowderâ€¦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
48	Ground-mounted photovoltaic solar parks promote land surface cool islands in arid ecosystems. Renewable and Sustainable Energy Transition, 2021, 1, 100008.	2.9	7
49	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
50	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
51	The influence of land cover data on farm-scale valuations of natural capital. Ecosystem Services, 2020, 42, 101065.	5.4	6
52	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
53	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
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	Using fractal analysis of crown images to measure the structural condition of trees. Forestry, 2018, 91, 480-491.	2.3	4
56	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
57	Modelling future acid depositionâ˜†A critical loads approach. Global Environmental Change, 1994, 4, 125-139.	7.8	3
58	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
59	Towards the integration of urban planning and biodiversity conservation through collaboration. Environmental Technology and Innovation, 2015, 4, 218-226.	6.1	3
60	Renewable energy scenarios: Exploring technology, acceptance and climate â€“ Options at the community-scale. Applied Geography, 2016, 74, 73-83.	3.7	3
61	Urban form strongly mediates the allometric scaling of airshed pollution concentrations. Environmental Research Letters, 2019, 14, 124078.	5.2	3
62	Using GIS to Investigate Spatial and Temporal Variations in Upland Rainfall. Transactions in GIS, 2010, 14, 265-282.	2.3	2
63	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
64	Spatio-temporal challenges in representing wildlife disturbance within a GIS. Environmental Technology and Innovation, 2017, 7, 44-53.	6.1	1
65	Going solo: studentsâ€™ strategies for coping with an independent GIS project. Journal of Geography in Higher Education, 0, , 1-18.	2.6	1
66	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