Nicholas J K Howden

List of Publications by Year
in descending order

67 papers	2,583 citations	185998 28 h-index	197535 49 g-index
70 all docs	70 docs citations	70 times ranked	3391 citing authors

#	Article	IF	Citations
1	Long-term accumulation and transport of anthropogenic phosphorus in three river basins. Nature Geoscience, 2016, 9, 353-356.	5.4	282
2	Transit timesâ€"the link between hydrology and water quality at the catchment scale. Wiley Interdisciplinary Reviews: Water, 2016, 3, 629-657.	2.8	184
3	Phosphorus in groundwaterâ€"an overlooked contributor to eutrophication?. Hydrological Processes, 2008, 22, 5121-5127.	1.1	169
4	Sustainable Phosphorus Management and the Need for a Long-Term Perspective: The Legacy Hypothesis. Environmental Science & Technology, 2014, 48, 8417-8419.	4.6	161
5	Nitrate concentrations and fluxes in the River Thames over 140 years (1868â€"2008): are increases irreversible?. Hydrological Processes, 2010, 24, 2657-2662.	1.1	132
6	CAMELS-GB: hydrometeorological time series and landscape attributes for 671 catchments in Great Britain. Earth System Science Data, 2020, 12, 2459-2483.	3.7	87
7	Nitrate pollution in intensively farmed regions: What are the prospects for sustaining highâ€quality groundwater?. Water Resources Research, 2011, 47, .	1.7	84
8	An assessment of the risk to surface water ecosystems of groundwater P in the UK and Ireland. Science of the Total Environment, 2010, 408, 1847-1857.	3.9	73
9	More rain, less soil: longâ€term changes in rainfall intensity with climate change. Earth Surface Processes and Landforms, 2016, 41, 563-566.	1.2	72
10	The relationship between land use and surface water resources in the UK. Land Use Policy, 2009, 26, S243-S250.	2.5	65
11	North Atlantic Oscillation amplifies orographic precipitation and river flow in upland Britain. Water Resources Research, 2013, 49, 3504-3515.	1.7	62
12	Nitrate in United Kingdom Rivers: Policy and Its Outcomes Since 1970. Environmental Science & Technology, 2011, 45, 175-181.	4.6	60
13	Importance of long-term monitoring for detecting environmental change: lessons from a lowland river in south east England. Biogeosciences, 2008, 5, 1529-1535.	1.3	58
14	Modelling long-term diffuse nitrate pollution at the catchment-scale: Data, parameter and epistemic uncertainty. Journal of Hydrology, 2011, 403, 337-351.	2.3	52
15	DECIPHeR v1: Dynamic fluxEs and ConnectIvity for Predictions of HydRology. Geoscientific Model Development, 2019, 12, 2285-2306.	1.3	51
16	Is There a Baseflow Budyko Curve?. Water Resources Research, 2019, 55, 2838-2855.	1.7	45
17	Global karst springs hydrograph dataset for research and management of the worldâ€™s fastest-flowing groundwater. Scientific Data, 2020, 7, 59.	2.4	45
18	On the value of longâ€term, lowâ€frequency water quality sampling: avoiding throwing the baby out with the bathwater. Hydrological Processes, 2011, 25, 828-830.	1.1	44

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19	Temporal and spatial analysis of nitrate concentrations from the Frome and Piddle catchments in Dorset (UK) for water years 1978 to 2007: Evidence for nitrate breakthrough?. Science of the Total Environment, 2008, 407, 507-526.	3.9	40
20	The fluvial flux of particulate organic matter from the UK: Quantifying in-stream losses and carbon sinks. Journal of Hydrology, 2014, 519, 611-625.	2.3	38
21	Assessment of sample frequency bias and precision in fluvial flux calculations â€“ An improved low bias estimation method. Journal of Hydrology, 2013, 503, 101-110.	2.3	37
22	Human impact on longâ€term organic carbon export to rivers. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 947-965.	1.3	37
23	Shifts in discharge-concentration relationships as a small catchment recover from severe drought. Hydrological Processes, 2015, 29, 498-507.	1.1	34
24	Farming for Water Quality: Balancing Food Security and Nitrate Pollution in UK River Basins. Annals of the American Association of Geographers, 2013, 103, 397-407.	3.0	33
25	Variation in suspended sediment yield across the UK â€“ A failure of the concept and interpretation of the sediment delivery ratio. Journal of Hydrology, 2014, 519, 1985-1996.	2.3	31
26	A method of estimating in-stream residence time of water in rivers. Journal of Hydrology, 2014, 512, 274-284.	2.3	31
27	Including Regional Knowledge Improves Baseflow Signature Predictions in Large Sample Hydrology. Water Resources Research, 2021, 57, e2020WR028354.	1.7	30
28	Water quality, nutrients and the European union's Water Framework Directive in a lowland agricultural region: Suffolk, south-east England. Science of the Total Environment, 2009, 407, 2966-2979.	3.9	29
29	Phosphate stable oxygen isotope variability within a temperate agricultural soil. Geoderma, 2017, 285, 64-75.	2.3	29
30	Monitoring fluvial water chemistry for trend detection: hydrological variability masks trends in datasets covering fewer than 12 years. Journal of Environmental Monitoring, 2011, 13, 514.	2.1	27
31	Declines in the dissolved organic carbon (DOC) concentration and flux from the UK. Journal of Hydrology, 2018, 556, 775-789.	2.3	26
32	TOSSH: A Toolbox for Streamflow Signatures in Hydrology. Environmental Modelling and Software, 2021, 138, 104983.	1.9	26
33	On doing hydrology with dragons: Realizing the value of perceptual models and knowledge accumulation. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1550.	2.8	26
34	The flux of dissolved nitrogen from the UK â€” Evaluating the role of soils and land use. Science of the Total Environment, 2012, 434, 90-100.	3.9	24
35	Seeing the climate through the trees: observing climate and forestry impacts on streamflow using a 60â€year record. Hydrological Processes, 2015, 29, 473-480.	1.1	24
36	Linking North Atlantic oceanâ€“atmosphere teleconnection patterns and hydrogeological responses in temperate groundwater systems. Hydrological Processes, 2009, 23, 3123-3126.	1.1	23

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37	Quantifying landscapeâ€level methane fluxes in subarctic Finland using a multiscale approach. Global Change Biology, 2015, 21, 3712-3725.	4.2	23
38	The fluvial flux of particulate organic matter from the UK: the emission factor of soil erosion. Earth Surface Processes and Landforms, 2016, 41, 61-71.	1.2	22
39	Process-based modelling to evaluate simulated groundwater levels and frequencies in aÂChalk catchment in south-western England. Natural Hazards and Earth System Sciences, 2018, 18, 445-461.	1.5	22
40	Forty-year trends in the flux and concentration of phosphorus in British rivers. Journal of Hydrology, 2018, 558, 314-327.	2.3	21
41	Hydrological signatures describing the translation of climate seasonality into streamflow seasonality. Hydrology and Earth System Sciences, 2020, 24, 561-580.	1.9	20
42	The flux of suspended sediment from the UK 1974 to 2010. Journal of Hydrology, 2013, 504, 29-39.	2.3	17
43	The fluvial flux of total reactive and total phosphorus from the UK in the context of a national phosphorus budget: comparing UK river fluxes with phosphorus trade imports and exports. Biogeochemistry, 2016, 130, 31-51.	1.7	17
44	Catchment similarity concepts for understanding dynamic biogeochemical behaviour of river basins. Hydrological Processes, 2014, 28, 1554-1560.	1.1	14
45	Time series analysis of the world's longest fluvial nitrate record: evidence for changing states of catchment saturation. Hydrological Processes, 2015, 29, 434-444.	1.1	14
46	The Impact of Peatland Restoration on Local Climate: Restoration of a Cool Humid Island. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1696-1713.	1.3	14
47	The importance of sewage effluent discharge in the export of dissolved organic carbon from U.K. rivers. Hydrological Processes, 2019, 33, 1851-1864.	1.1	14
48	Correction of fluvial fluxes of chemical species for diurnal variation. Journal of Hydrology, 2013, 481, 1-11.	2.3	13
49	Water availability and agricultural demand: An assessment framework using global datasets in a data scarce catchment, Rokel-Seli River, Sierra Leone. Journal of Hydrology: Regional Studies, 2016, 8, 222-234.	1.0	12
50	The fate of suspended sediment and particulate organic carbon in transit through the channels of a river catchment. Hydrological Processes, 2018, 32, 146-159.	1.1	11
51	Exploring the role of hydrological pathways in modulating multi-annual climate teleconnection periodicities from UK rainfall to streamflow. Hydrology and Earth System Sciences, 2021, 25, 2223-2237.	1.9	11
52	Drivers of interannual and intraâ€annual variability of dissolved organic carbon concentration in the River Thames between 1884 and 2013. Hydrological Processes, 2019, 33, 994-1012.	1.1	10
53	The probability of breaching water quality standards â€" A probabilistic model of river water nitrate concentrations. Journal of Hydrology, 2020, 583, 124562.	2.3	9
54	The stable oxygen isotope ratio of resin extractable phosphate derived from fresh cattle faeces. Rapid Communications in Mass Spectrometry, 2018, 32, 703-710.	0.7	6

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55	Analysis of Nitrate Concentrations Using Nonlinear Time Series Models. Journal of Hydrology and Hydromechanics, 2011, 59, .	0.7	5
56	Local climate impacts from ongoing restoration of a peatland. Hydrological Processes, 2022, 36, .	1.1	5
57	Are peatlands cool humid islands in a landscape?. Hydrological Processes, 2020, 34, 5013-5025.	1.1	4
58	Slopes: solute processes and landforms. Geological Society Memoir, 0, , M58-2021-5.	0.9	4
59	The seven sources of variance in fluvial flux time series. Hydrological Processes, 2018, 32, 3996-3997.	1.1	3
60	The dissolved organic carbon flux from the UK â€“ A new Bayesian approach to flux calculation. Journal of Hydrology, 2020, 590, 125511.	2.3	3
61	Comment on â€˜Burt T, Worrall F. 2007. Nonâ€stationarity in long time series: some curious reversals in the memory effect. <i>Hydrological Processes</i> 21: 3529â€“3531â€™. Hydrological Processes, 2008, 22, 2887-2889.	1.1	2
62	The problem of underpowered rivers. Earth Surface Processes and Landforms, 2020, 45, 3869-3878.	1.2	2
63	A 50â€year record of nitrate concentrations in the Slapton Ley Catchment, Devon, United Kingdom. Hydrological Processes, 2021, 35, .	1.1	2
64	Within-field spatial variability of greenhouse gas fluxes from an extensive and intensive sheep-grazed pasture. Agriculture, Ecosystems and Environment, 2021, 312, 107355.	2.5	2
65	The problem of self-correlation in fluvial flux data â€“ The case of nitrate flux from UK rivers. Journal of Hydrology, 2015, 530, 328-335.	2.3	1
66	BOD as a Measure of Fluvial Organic Matter Labilityâ€”The Decoupling of O₂ Consumption From CO₂ Production. Journal of Geophysical Research G: Biogeosciences, 2021, 126, .	1.3	1
67	3 River catchment contributions to the coastal zone. , 2010, , 31-58.		0