

Penny J Johnes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

4,614
citations

34
h-index

67
g-index

99
ext. papers

5,254
ext. citations

6.8
avg, IF

5.59
L-index

#	Paper	IF	Citations
90	Shifting stoichiometry: Long-term trends in stream-dissolved organic matter reveal altered C:N ratios due to history of atmospheric acid deposition. <i>Global Change Biology</i> , 2022 , 28, 98-114	11.4	1
89	Sampling, storage and laboratory approaches for dissolved organic matter characterisation in freshwaters: Moving from nutrient fraction to molecular-scale characterisation.. <i>Science of the Total Environment</i> , 2022 , 154105	10.2	1
88	What do changing weather and climate shocks and stresses mean for the UK food system?. <i>Environmental Research Letters</i> , 2022 , 17, 051001	6.2	0
87	Land cover and nutrient enrichment regulates low-molecular weight dissolved organic matter turnover in freshwater ecosystems. <i>Limnology and Oceanography</i> , 2021 , 66, 2979-2987	4.8	3
86	Gradients of Anthropogenic Nutrient Enrichment Alter N Composition and DOM Stoichiometry in Freshwater Ecosystems. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2021GB006953	5.9	4
85	Dissolved organic nutrient uptake by riverine phytoplankton varies along a gradient of nutrient enrichment. <i>Science of the Total Environment</i> , 2020 , 722, 137837	10.2	17
84	Rapid depletion of dissolved organic sulphur (DOS) in freshwaters. <i>Biogeochemistry</i> , 2020 , 149, 105-113	3.8	2
83	Identifying the main drivers of change of phytoplankton community structure and gross primary productivity in a river-lake system. <i>Journal of Hydrology</i> , 2020 , 583, 124633	6	23
82	Rates of hydroxyapatite formation and dissolution in a sandstone aquifer: Implications for understanding dynamic phosphate behaviour within an agricultural catchment. <i>Applied Geochemistry</i> , 2020 , 115, 104534	3.5	5
81	Determining the Impact of Riparian Wetlands on Nutrient Cycling, Storage and Export in Permeable Agricultural Catchments. <i>Water (Switzerland)</i> , 2020 , 12, 167	3	7
80	Untargeted characterisation of dissolved organic matter contributions to rivers from anthropogenic point sources using direct-infusion and high-performance liquid chromatography/Orbitrap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34 Suppl 4, e8610	2.2	5
79	Cascading multiscale watershed effects on differential carbon isotopic characteristics and associated hydrological processes. <i>Journal of Hydrology</i> , 2020 , 588, 125139	6	6
78	Identification and quantification of myo-inositol hexakisphosphate in complex environmental matrices using ion chromatography and high-resolution mass spectrometry in comparison to P NMR spectroscopy. <i>Talanta</i> , 2020 , 210, 120188	6.2	0
77	Variation in dissolved organic matter (DOM) stoichiometry in U.K. freshwaters: Assessing the influence of land cover and soil C:N ratio on DOM composition. <i>Limnology and Oceanography</i> , 2019 , 64, 2328-2340	4.8	29
76	High resolution HPLC-MS confirms overestimation of urea in soil by the diacetyl monoxime (DAM) colorimetric method. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 127-133	7.5	5
75	Soil functions and ecosystem services research in the Chinese karst Critical Zone. <i>Chemical Geology</i> , 2019 , 527, 119107	4.2	40
74	Using $\delta^{13}\text{C}$ to reveal the importance of different water transport pathways in two nested karst basins, Southwest China. <i>Journal of Hydrology</i> , 2019 , 571, 425-436	6	8

73	Microbial uptake kinetics of dissolved organic carbon (DOC) compound groups from river water and sediments. <i>Scientific Reports</i> , 2019 , 9, 11229	4.9	18
72	Nutrient enrichment induces a shift in dissolved organic carbon (DOC) metabolism in oligotrophic freshwater sediments. <i>Science of the Total Environment</i> , 2019 , 690, 1131-1139	10.2	13
71	Benchmarking the predictive capability of hydrological models for river flow and flood peak predictions across over 1000 catchments in Great Britain. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 4011-4032	5.5	28
70	Characterisation of treated effluent from four commonly employed wastewater treatment facilities: A UK case study. <i>Journal of Environmental Management</i> , 2019 , 232, 919-927	7.9	10
69	Determining the sources of nutrient flux to water in headwater catchments: Examining the speciation balance to inform the targeting of mitigation measures. <i>Science of the Total Environment</i> , 2019 , 648, 1179-1200	10.2	24
68	An exploration of individual, social and material factors influencing water pollution mitigation behaviours within the farming community. <i>Land Use Policy</i> , 2018 , 70, 16-26	5.6	37
67	Impact of microbial activity on the leaching of soluble N forms in soil. <i>Biology and Fertility of Soils</i> , 2018 , 54, 21-25	6.1	4
66	Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. <i>Plant and Soil</i> , 2018 , 427, 191-208	4.2	87
65	Projected impacts of increased uptake of source control mitigation measures on agricultural diffuse pollution emissions to water and air. <i>Land Use Policy</i> , 2017 , 62, 185-201	5.6	15
64	Microbial use of low molecular weight DOM in filtered and unfiltered freshwater: Role of ultra-small microorganisms and implications for water quality monitoring. <i>Science of the Total Environment</i> , 2017 , 598, 377-384	10.2	18
63	Hydrological controls on DOC : nitrate resource stoichiometry in a lowland, agricultural catchment, southern UK. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 4785-4802	5.5	19
62	The potential benefits of on-farm mitigation scenarios for reducing multiple pollutant loadings in prioritised agri-environment areas across England. <i>Environmental Science and Policy</i> , 2017 , 73, 100-114	6.2	17
61	Major agricultural changes required to mitigate phosphorus losses under climate change. <i>Nature Communications</i> , 2017 , 8, 161	17.4	72
60	Ecosystem service delivery in Karst landscapes: anthropogenic perturbation and recovery. <i>Acta Geochimica</i> , 2017 , 36, 416-420	2.2	14
59	Using hysteresis analysis of high-resolution water quality monitoring data, including uncertainty, to infer controls on nutrient and sediment transfer in catchments. <i>Science of the Total Environment</i> , 2016 , 543, 388-404	10.2	160
58	Discharge and nutrient uncertainty: implications for nutrient flux estimation in small streams. <i>Hydrological Processes</i> , 2016 , 30, 135-152	3.3	34
57	Short-term biotic removal of dissolved organic nitrogen (DON) compounds from soil solution and subsequent mineralisation in contrasting grassland soils. <i>Soil Biology and Biochemistry</i> , 2016 , 96, 82-85	7.5	9
56	Tackling agricultural diffuse pollution: What might uptake of farmer-preferred measures deliver for emissions to water and air?. <i>Science of the Total Environment</i> , 2016 , 547, 269-281	10.2	44

55	Technical Note: Testing an improved index for analysing storm discharge-concentration hysteresis. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 625-632	5.5	73
54	Assessing the drivers of dissolved organic matter export from two contrasting lowland catchments, U.K. <i>Science of the Total Environment</i> , 2016 , 569-570, 1330-1340	10.2	24
53	A geospatial framework to support integrated biogeochemical modelling in the United Kingdom. <i>Environmental Modelling and Software</i> , 2015 , 68, 219-232	5.2	21
52	Distributed and dynamic modelling of hydrology, phosphorus and ecology in the Hampshire Avon and Blashford Lakes: evaluating alternative strategies to meet WFD standards. <i>Science of the Total Environment</i> , 2014 , 481, 157-66	10.2	14
51	Methods for detecting change in hydrochemical time series in response to targeted pollutant mitigation in river catchments. <i>Journal of Hydrology</i> , 2014 , 514, 297-312	6	38
50	High-frequency monitoring of nitrogen and phosphorus response in three rural catchments to the end of the 2011-2012 drought in England. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 3429-3448	5.5	82
49	Ground penetrating radar as a tool to improve heritage management of wetlands 2014 ,		3
48	Nitrogen speciation and phosphorus fractionation dynamics in a lowland Chalk catchment. <i>Science of the Total Environment</i> , 2013 , 444, 466-79	10.2	25
47	Nitrogen fluxes from the landscape are controlled by net anthropogenic nitrogen inputs and by climate. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 37-43	5.5	233
46	Catchment Phosphorous Losses: An Export Coefficient Modelling Approach with Scenario Analysis for Water Management. <i>Water Resources Management</i> , 2012 , 26, 1041-1064	3.7	26
45	Response--Nutrient Imbalances. <i>Science</i> , 2009 , 326, 665-666	33.3	7
44	Bryozoan populations reflect nutrient enrichment and productivity gradients in rivers. <i>Freshwater Biology</i> , 2009 , 54, 2320-2334	3.1	40
43	Agriculture. Nutrient imbalances in agricultural development. <i>Science</i> , 2009 , 324, 1519-20	33.3	887
42	Land use scenarios for England and Wales: evaluation of management options to support 'good ecological status' in surface freshwaters. <i>Soil Use and Management</i> , 2007 , 23, 176-194	3.1	53
41	Uncertainties in annual riverine phosphorus load estimation: Impact of load estimation methodology, sampling frequency, baseflow index and catchment population density. <i>Journal of Hydrology</i> , 2007 , 332, 241-258	6	235
40	Meeting ecological restoration targets in European waters: a challenge for animal agriculture. 2007 , 185-203		5
39	A comparison of diatom phosphorus transfer functions and export coefficient models as tools for reconstructing lake nutrient histories. <i>Freshwater Biology</i> , 2005 , 50, 1651-1670	3.1	39
38	Nutrient monitoring, simulation and management within a major lowland UK river system: the Kennet. <i>Mathematics and Computers in Simulation</i> , 2004 , 64, 307-317	3.3	12

37	Impacts of runoff from sulfuric soils on sediment chemistry in an estuarine lake. <i>Science of the Total Environment</i> , 2004 , 329, 115-30	10.2	55
36	Physico-chemical controls on phosphorus cycling in two lowland streams. Part 1 -- the water column. <i>Science of the Total Environment</i> , 2004 , 329, 145-63	10.2	54
35	Physico-chemical controls on phosphorus cycling in two lowland streams. Part 2--the sediment phase. <i>Science of the Total Environment</i> , 2004 , 329, 165-82	10.2	80
34	The Phosphorus Indicators Tool: a simple model of diffuse P loss from agricultural land to water. <i>Soil Use and Management</i> , 2003 , 19, 1-11	3.1	90
33	The Phosphorus Indicators Tool: a simple model of diffuse P loss from agricultural land to water. <i>Soil Use and Management</i> , 2003 , 19, 1-11	3.1	5
32	Steady state and dynamic modelling of nitrogen in the River Kennet: impacts of land use change since the 1930s. <i>Science of the Total Environment</i> , 2002 , 282-283, 417-34	10.2	53
31	Regulation of surface water quality in a Cretaceous Chalk catchment, UK: an assessment of the relative importance of instream and wetland processes. <i>Science of the Total Environment</i> , 2002 , 282-283, 159-74	10.2	43
30	Landscape, regional and global estimates of nitrogen flux from land to sea: Errors and uncertainties. <i>Biogeochemistry</i> , 2002 , 57, 429-476	3.8	40
29	A comparison of models for estimating the riverine export of nitrogen from large watersheds. <i>Biogeochemistry</i> , 2002 , 57, 295-339	3.8	125
28	The prediction of nutrients into estuaries and their subsequent behaviour: application to the Tamar and comparison with the Tweed, U.K.. <i>Hydrobiologia</i> , 2002 , 475/476, 239-250	2.4	12
27	Landscape, regional and global estimates of nitrogen flux from land to sea: Errors and uncertainties 2002 , 429-476		1
26	A comparison of models for estimating the riverine export of nitrogen from large watersheds 2002 , 295-339		4
25	Quantifying the non-point source contribution to nutrient loading on freshwaters in 32 UK catchments. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000 , 27, 1306-1309		
24	Understanding lake and catchment history as a tool for integrated lake management. <i>Hydrobiologia</i> , 1999 , 395/396, 41-60	2.4	20
23	Understanding lake and catchment history as a tool for integrated lake management 1999 , 41-60		1
22	Phosphorus loss from agricultural catchments: pathways and implications for management. <i>Soil Use and Management</i> , 1998 , 14, 175-185	3.1	41
21	MODELLING THE IMPACT OF LAND USE CHANGE ON WATER QUALITY IN AGRICULTURAL CATCHMENTS. <i>Hydrological Processes</i> , 1997 , 11, 269-286	3.3	157
20	THE MONITORING OF ECOLOGICAL QUALITY AND THE CLASSIFICATION OF STANDING WATERS IN TEMPERATE REGIONS: A REVIEW AND PROPOSAL BASED ON A WORKED SCHEME FOR BRITISH WATERS. <i>Biological Reviews</i> , 1996 , 71, 301-339	13.5	45

19	Evaluation and management of the impact of land use change on the nitrogen and phosphorus load delivered to surface waters: the export coefficient modelling approach. <i>Journal of Hydrology</i> , 1996 , 183, 323-349	6	495
18	Trends in nutrients. <i>Hydrological Processes</i> , 1996 , 10, 263-293	3.3	113
17	CONTRIBUTION OF NITROGEN SPECIES AND PHOSPHORUS FRACTIONS TO STREAM WATER QUALITY IN AGRICULTURAL CATCHMENTS. <i>Hydrological Processes</i> , 1996 , 10, 971-983	3.3	122
16	The determination of total nitrogen and total phosphorus concentrations in freshwaters from land use, stock headage and population data: testing of a model for use in conservation and water quality management. <i>Freshwater Biology</i> , 1996 , 36, 451-473	3.1	133
15	Trends in nutrients 1996 , 10, 263		4
14	August Thienemann and Loch Lomond: an approach to the design of a system for monitoring the state of north-temperate standing waters. <i>Hydrobiologia</i> , 1994 , 290, 1-12	2.4	10
13	August Thienemann and Loch Lomond: an approach to the design of a system for monitoring the state of north-temperate standing waters 1994 , 1-12		
12	A procedure for the simultaneous determination of total nitrogen and total phosphorus in freshwater samples using persulphate microwave digestion. <i>Water Research</i> , 1992 , 26, 1281-1287	12.5	103
11	Nitrogen as a threat to European water quality 379-404		57
10	Developing integrated approaches to nitrogen management 541-550		6
9	Nitrogen flows from European regional watersheds to coastal marine waters 271-297		45
8	Nitrogen processes in aquatic ecosystems 126-146		32
7	Integrating nitrogen fluxes at the European scale 345-376		54
6	Hydrological controls on DOC: nitrate resource stoichiometry in a lowland, agricultural catchment, southern UK		2
5	Technical Note: Testing an improved index for analysing storm nutrient hysteresis		2
4	High-resolution monitoring of catchment nutrient response to the end of the 2011-2012 drought in England, captured by the demonstration test catchments		2
3	CONTRIBUTION OF NITROGEN SPECIES AND PHOSPHORUS FRACTIONS TO STREAM WATER QUALITY IN AGRICULTURAL CATCHMENTS		2
2	Characterisation of riverine dissolved organic matter using a complementary suite of chromatographic and mass spectrometric methods. <i>Biogeochemistry</i> , 1	3.8	2

1	Tracing carbon and nitrogen microbial assimilation in suspended particles in freshwaters. <i>Biogeochemistry</i> ,1	3.8	o
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