

Penny J Johnes

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

5,932
citations

109321

35
h-index

79698

73
g-index

99
all docs

99
docs citations

99
times ranked

6109
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracing carbon and nitrogen microbial assimilation in suspended particles in freshwaters. <i>Biogeochemistry</i> , 2023, 164, 277-293.	3.5	5
2	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.	9.5	22
3	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, 827, 154105.	8.0	2
4	What do changing weather and climate shocks and stresses mean for the UK food system?. <i>Environmental Research Letters</i> , 2022, 17, 051001.	5.2	4
5	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.	3.1	10
6	Gradients of Anthropogenic Nutrient Enrichment Alter N Composition and DOM Stoichiometry in Freshwater Ecosystems. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006953.	4.9	22
7	Identification and quantification of myo-inositol hexakisphosphate in complex environmental matrices using ion chromatography and high-resolution mass spectrometry in comparison to ³¹ P NMR spectroscopy. <i>Talanta</i> , 2020, 210, 120188.	5.5	5
8	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, e8618.	1.5	14
9	Cascading multiscale watershed effects on differential carbon isotopic characteristics and associated hydrological processes. <i>Journal of Hydrology</i> , 2020, 588, 125139.	5.4	7
10	Dissolved organic nutrient uptake by riverine phytoplankton varies along a gradient of nutrient enrichment. <i>Science of the Total Environment</i> , 2020, 722, 137837.	8.0	40
11	Rapid depletion of dissolved organic sulphur (DOS) in freshwaters. <i>Biogeochemistry</i> , 2020, 149, 105-113.	3.5	10
12	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.	5.4	44
13	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.	3.0	8
14	Determining the Impact of Riparian Wetlands on Nutrient Cycling, Storage and Export in Permeable Agricultural Catchments. <i>Water (Switzerland)</i> , 2020, 12, 167.	2.7	14
15	Microbial uptake kinetics of dissolved organic carbon (DOC) compound groups from river water and sediments. <i>Scientific Reports</i> , 2019, 9, 11229.	3.3	31
16	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.	8.0	22
17	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.	3.1	49
18	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.	8.8	10

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19	Soil functions and ecosystem services research in the Chinese karst Critical Zone. <i>Chemical Geology</i> , 2019, 527, 119107.	3.3	82
20	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.	5.4	12
21	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.	4.9	63
22	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.	7.8	19
23	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.	8.0	31
24	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	67
25	Impact of microbial activity on the leaching of soluble N forms in soil. <i>Biology and Fertility of Soils</i> , 2018, 54, 21-25.	4.3	5
26	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.	3.7	145
27	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	21
28	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.	8.0	27
29	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.	4.9	21
30	Major agricultural changes required to mitigate phosphorus losses under climate change. <i>Nature Communications</i> , 2017, 8, 161.	12.8	121
31	Ecosystem service delivery in Karst landscapes: anthropogenic perturbation and recovery. <i>Acta Geochimica</i> , 2017, 36, 416-420.	1.7	22
32	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.	4.9	25
33	Technical Note: Testing an improved index for analysing storm discharge concentration hysteresis. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 625-632.	4.9	108
34	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.	8.0	30
35	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.	8.0	221
36	Discharge and nutrient uncertainty: implications for nutrient flux estimation in small streams. <i>Hydrological Processes</i> , 2016, 30, 135-152.	2.6	48

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37	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.	8.8	14
38	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.	8.0	54
39	SOIL PROCESSES AND ECOLOGICAL SERVICES IN THE KARST CRITICAL ZONE OF SW CHINA. , 2016, , .		0
40	A geospatial framework to support integrated biogeochemical modelling in the United Kingdom. <i>Environmental Modelling and Software</i> , 2015, 68, 219-232.	4.5	26
41	High-frequency monitoring of nitrogen and phosphorus response in three rural catchments to the end of the 2011â€“2012 drought in England. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3429-3448.	4.9	103
42	Ground penetrating radar as a tool to improve heritage management of wetlands. , 2014, , .		4
43	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, 157-166.	8.0	17
44	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.	5.4	49
45	Nitrogen speciation and phosphorus fractionation dynamics in a lowland Chalk catchment. <i>Science of the Total Environment</i> , 2013, 444, 466-479.	8.0	31
46	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.	4.0	281
47	Catchment Phosphorous Losses: An Export Coefficient Modelling Approach with Scenario Analysis for Water Management. <i>Water Resources Management</i> , 2012, 26, 1041-1064.	3.9	29
48	Nitrogen as a threat to European water quality. , 2011, , 379-404.		80
49	Developing integrated approaches to nitrogen management. , 2011, , 541-550.		6
50	Nitrogen processes in aquatic ecosystems. , 2011, , 126-146.		46
51	Responseâ€“Nutrient Imbalances. <i>Science</i> , 2009, 326, 665-666.	12.6	10
52	Bryozoan populations reflect nutrient enrichment and productivity gradients in rivers. <i>Freshwater Biology</i> , 2009, 54, 2320-2334.	2.4	45
53	Nutrient Imbalances in Agricultural Development. <i>Science</i> , 2009, 324, 1519-1520.	12.6	1,082
54	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.	5.4	268

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55	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.	4.9	60
56	Meeting ecological restoration targets in European waters: a challenge for animal agriculture.. , 2007, , 185-203.		6
57	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.	2.4	46
58	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.	4.4	16
59	Impacts of runoff from sulfuric soils on sediment chemistry in an estuarine lake. <i>Science of the Total Environment</i> , 2004, 329, 115-130.	8.0	62
60	Physico-chemical controls on phosphorus cycling in two lowland streams. Part 1 "the water column. <i>Science of the Total Environment</i> , 2004, 329, 145-163.	8.0	61
61	Physico-chemical controls on phosphorus cycling in two lowland streams. Part 2 "The sediment phase. <i>Science of the Total Environment</i> , 2004, 329, 165-182.	8.0	91
62	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.	4.9	98
63	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.	4.9	6
64	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, 417-434.	8.0	63
65	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, 159-174.	8.0	53
66	Title is missing!. <i>Biogeochemistry</i> , 2002, 57, 429-476.	3.5	45
67	A comparison of models for estimating the riverine export of nitrogen from large watersheds. <i>Biogeochemistry</i> , 2002, 57, 295-339.	3.5	153
68	Title is missing!. <i>Hydrobiologia</i> , 2002, 475/476, 239-250.	2.0	15
69	Landscape, regional and global estimates of nitrogen flux from land to sea: Errors and uncertainties. , 2002, , 429-476.		1
70	A comparison of models for estimating the riverine export of nitrogen from large watersheds. , 2002, , 295-339.		5
71	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.	0.1	3
72	Understanding lake and catchment history as a tool for integrated lake management. <i>Hydrobiologia</i> , 1999, 395/396, 41-60.	2.0	21

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73	Understanding lake and catchment history as a tool for integrated lake management. , 1999, , 41-60.		6
74	Phosphorus loss from agricultural catchments: pathways and implications for management. Soil Use and Management, 1998, 14, 175-185.	4.9	48
75	MODELLING THE IMPACT OF LAND USE CHANGE ON WATER QUALITY IN AGRICULTURAL CATCHMENTS. Hydrological Processes, 1997, 11, 269-286.	2.6	176
76	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. Biological Reviews, 1996, 71, 301-339.	10.4	61
77	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. Journal of Hydrology, 1996, 183, 323-349.	5.4	595
78	Trends in nutrients. Hydrological Processes, 1996, 10, 263-293.	2.6	133
79	CONTRIBUTION OF NITROGEN SPECIES AND PHOSPHORUS FRACTIONS TO STREAM WATER QUALITY IN AGRICULTURAL CATCHMENTS. Hydrological Processes, 1996, 10, 971-983.	2.6	133
80	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. Freshwater Biology, 1996, 36, 451-473.	2.4	165
81	Trends in nutrients. Hydrological Processes, 1996, 10, 263-293.	2.6	4
82	Tales from the River Bank: A Valuable Contribution. Journal of Biogeography, 1995, 22, 158.	3.0	0
83	August Thienemann and Loch Lomond " an approach to the design of a system for monitoring the state of north-temperate standing waters. Hydrobiologia, 1994, 290, 1-12.	2.0	11
84	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.		2
85	A procedure for the simultaneous determination of total nitrogen and total phosphorus in freshwater samples using persulphate microwave digestion. Water Research, 1992, 26, 1281-1287.	11.3	117
86	Nitrogen flows from European regional watersheds to coastal marine waters. , 0, , 271-297.		54
87	Integrating nitrogen fluxes at the European scale. , 0, , 345-376.		65
88	CONTRIBUTION OF NITROGEN SPECIES AND PHOSPHORUS FRACTIONS TO STREAM WATER QUALITY IN AGRICULTURAL CATCHMENTS. , 0, .		2
89	Characterisation of riverine dissolved organic matter using a complementary suite of chromatographic and mass spectrometric methods. Biogeochemistry, 0, , 1.	3.5	4