

Michael J Bowes

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.

96
papers

3,932
citations

37
h-index

60
g-index

103
ext. papers

4,562
ext. citations

6.8
avg, IF

5.28
L-index

#	Paper	IF	Citations
96	A systematic approach to understand hydrogeochemical dynamics in large river systems: Development and application to the River Ganges (Ganga) in India.. <i>Water Research</i> , 2022 , 211, 118054	12.5	0
95	Genomic network analysis of environmental and livestock F-type plasmid populations. <i>ISME Journal</i> , 2021 , 15, 2322-2335	11.9	4
94	Niche and local geography shape the pangenome of wastewater- and livestock-associated Enterobacteriaceae. <i>Science Advances</i> , 2021 , 7,	14.3	12
93	A Tale of Two Rivers: Can the Restoration Lessons of River Thames (Southern UK) Be Transferred to River Hindon (Northern India)?. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 212	2.6	1
92	Evaluating diffuse and point source phosphorus inputs to streams in a cold climate region using a load apportionment model. <i>Journal of Great Lakes Research</i> , 2021 , 47, 761-772	3	6
91	Contrasting community assembly processes structure lotic bacteria metacommunities along the river continuum. <i>Environmental Microbiology</i> , 2021 , 23, 484-498	5.2	8
90	Does agri-environmental management enhance biodiversity and multiple ecosystem services?: A farm-scale experiment. <i>Agriculture, Ecosystems and Environment</i> , 2021 , 320, 107582	5.7	7
89	Biogeochemical and climate drivers of wetland phosphorus and nitrogen release: Implications for nutrient legacies and eutrophication risk. <i>Journal of Environmental Quality</i> , 2020 , 49, 1703-1716	3.4	8
88	Intense summer floods may induce prolonged increases in benthic respiration rates of more than one year leading to low river dissolved oxygen. <i>Journal of Hydrology X</i> , 2020 , 8, 100056	4.6	9
87	Using high-frequency phosphorus monitoring for water quality management: a case study of the upper River Itchen, UK. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 184	3.1	5
86	Nutrient and microbial water quality of the upper Ganga River, India: identification of pollution sources. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 533	3.1	9
85	In Situ Catchment Scale Sampling of Emerging Contaminants Using Diffusive Gradients in Thin Films (DGT) and Traditional Grab Sampling: A Case Study of the River Thames, UK. <i>Environmental Science & Technology</i> , 2020 , 54, 11155-11164	10.3	7
84	Method development for rapid quantification of Rn-222 in surface water and groundwater. <i>Environmental Geochemistry and Health</i> , 2020 , 42, 1109-1115	4.7	1
83	The impact of sequencing depth on the inferred taxonomic composition and AMR gene content of metagenomic samples. <i>Environmental Microbiomes</i> , 2019 , 14, 7	5.6	24
82	Influence of turbid flood water release on sediment deposition and phosphorus distribution in the bed sediment of the Three Gorges Reservoir, China. <i>Science of the Total Environment</i> , 2019 , 657, 36-45	10.2	19
81	Using dissolved organic matter fluorescence to identify the provenance of nutrients in a lowland catchment; the River Thames, England. <i>Science of the Total Environment</i> , 2019 , 653, 1240-1252	10.2	9
80	A novel application of remote sensing for modelling impacts of tree shading on water quality. <i>Journal of Environmental Management</i> , 2019 , 230, 33-42	7.9	13

79	Phosphorus and nitrogen limitation and impairment of headwater streams relative to rivers in Great Britain: A national perspective on eutrophication. <i>Science of the Total Environment</i> , 2018 , 621, 849-862	10.3	74
78	Characterisation of a major phytoplankton bloom in the River Thames (UK) using flow cytometry and high performance liquid chromatography. <i>Science of the Total Environment</i> , 2018 , 624, 366-376	10.2	21
77	Balancing Water Demand Needs with Protection of River Water Quality by Minimising Stream Residence Time: an Example from the Thames, UK. <i>Water Resources Management</i> , 2018 , 32, 2561-2568	3.7	6
76	Mapping eutrophication risk from climate change: Future phosphorus concentrations in English rivers. <i>Science of the Total Environment</i> , 2018 , 613-614, 1510-1526	10.2	37
75	Responses of Aquatic Plants to Eutrophication in Rivers: A Revised Conceptual Model. <i>Frontiers in Plant Science</i> , 2018 , 9, 451	6.2	50
74	Evaluating the stable isotopic composition of phosphate oxygen as a tracer of phosphorus from waste water treatment works. <i>Applied Geochemistry</i> , 2018 , 95, 139-146	3.5	9
73	Weekly water quality monitoring data for the River Thames (UK) and its major tributaries (2009-2013): the Thames Initiative research platform. <i>Earth System Science Data</i> , 2018 , 10, 1637-1653	10.5	19
72	Advancing integrated research on European river-bea systems: the DANUBIUS-RI project. <i>International Journal of Water Resources Development</i> , 2018 , 34, 888-899	3	4
71	Phosphorus fluxes to the environment from mains water leakage: Seasonality and future scenarios. <i>Science of the Total Environment</i> , 2018 , 636, 1321-1332	10.2	6
70	Mains water leakage: Implications for phosphorus source apportionment and policy responses in catchments. <i>Science of the Total Environment</i> , 2017 , 579, 702-708	10.2	17
69	Establishing the Baseline in Groundwater Chemistry in Connection with Shale-gas Exploration: Vale of Pickering, UK. <i>Procedia Earth and Planetary Science</i> , 2017 , 17, 678-681		4
68	Impacts of phosphorus concentration and light intensity on river periphyton biomass and community structure. <i>Hydrobiologia</i> , 2017 , 792, 315-330	2.4	27
67	Linking Soil Erosion to Instream Dissolved Phosphorus Cycling and Periphyton Growth. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 809-821	2.1	7
66	Assessing the population equivalent and performance of wastewater treatment through the ratios of pharmaceuticals and personal care products present in a river basin: Application to the River Thames basin, UK. <i>Science of the Total Environment</i> , 2017 , 575, 1100-1108	10.2	42
65	Seasonal and Interannual Changes in Sediment Transport Identified through Sediment Rating Curves. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017 , 22, 06016016	1.8	30
64	Carbon, Nitrogen, and Phosphorus Stoichiometry and Eutrophication in River Thames Tributaries, UK. <i>Agricultural and Environmental Letters</i> , 2017 , 2, ael2017.06.0020	1.5	12
63	Trace levels of sewage effluent are sufficient to increase class 1 integron prevalence in freshwater biofilms without changing the core community. <i>Water Research</i> , 2016 , 106, 163-170	12.5	27
62	A long-term study of stable isotopes as tracers of processes governing water flow and quality in a lowland river basin: the upper Thames, UK. <i>Hydrological Processes</i> , 2016 , 30, 2178-2195	3.3	9

61	Impacts of climate change, land-use change and phosphorus reduction on phytoplankton in the River Thames (UK). <i>Science of the Total Environment</i> , 2016 , 572, 1507-1519	10.2	59
60	Riparian shading controls instream spring phytoplankton and benthic algal growth. <i>Environmental Sciences: Processes and Impacts</i> , 2016 , 18, 677-89	4.3	16
59	Projections of future deterioration in UK river quality are hampered by climatic uncertainty under extreme conditions. <i>Hydrological Sciences Journal</i> , 2016 , 61, 2818-2833	3.5	17
58	Sensors in the Stream: The High-Frequency Wave of the Present. <i>Environmental Science & Technology</i> , 2016 , 50, 10297-10307	10.3	162
57	Identifying multiple stressor controls on phytoplankton dynamics in the River Thames (UK) using high-frequency water quality data. <i>Science of the Total Environment</i> , 2016 , 569-570, 1489-1499	10.2	54
56	The effects of increased flow and fine sediment on hyporheic invertebrates and nutrients in stream mesocosms. <i>Freshwater Biology</i> , 2015 , 60, 813-826	3.1	36
55	Exploring controls on the fate of PVP-capped silver nanoparticles in primary wastewater treatment. <i>Environmental Science: Nano</i> , 2015 , 2, 177-190	7.1	10
54	Validated predictive modelling of the environmental resistome. <i>ISME Journal</i> , 2015 , 9, 1467-76	11.9	85
53	16S rRNA assessment of the influence of shading on early-successional biofilms in experimental streams. <i>FEMS Microbiology Ecology</i> , 2015 , 91,	4.3	3
52	Dynamic modelling of multiple phytoplankton groups in rivers with an application to the Thames river system in the UK. <i>Environmental Modelling and Software</i> , 2015 , 74, 75-91	5.2	31
51	Catchment-scale biogeography of riverine bacterioplankton. <i>ISME Journal</i> , 2015 , 9, 516-26	11.9	134
50	High-frequency water quality monitoring in an urban catchment: hydrochemical dynamics, primary production and implications for the Water Framework Directive. <i>Hydrological Processes</i> , 2015 , 29, 3388-3407	3.3	53
49	The Catchment Runoff Attenuation Flux Tool, a minimum information requirement nutrient pollution model. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 1641-1657	5.5	3
48	Using high-frequency water quality data to assess sampling strategies for the EU Water Framework Directive. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 2491-2504	5.5	57
47	Characterising phosphorus and nitrate inputs to a rural river using high-frequency concentration-flow relationships. <i>Science of the Total Environment</i> , 2015 , 511, 608-20	10.2	136
46	Evaluation of DGT as a long-term water quality monitoring tool in natural waters; uranium as a case study. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 393-403	4.3	24
45	Phosphorus enrichment of the oligotrophic River Rede (Northumberland, UK) has no effect on periphyton growth rate. <i>Inland Waters</i> , 2014 , 4, 121-132	2.4	9
44	Intra- and inter-pandemic variations of antiviral, antibiotics and decongestants in wastewater treatment plants and receiving rivers. <i>PLoS ONE</i> , 2014 , 9, e108621	3.7	40

43	The Water Quality of the River Enborne, UK: Observations from High-Frequency Monitoring in a Rural, Lowland River System. <i>Water (Switzerland)</i> , 2014 , 6, 150-180	3	40
42	Identifying priorities for nutrient mitigation using river concentration-flow relationships: The Thames basin, UK. <i>Journal of Hydrology</i> , 2014 , 517, 1-12	6	62
41	Weekly flow cytometric analysis of riverine phytoplankton to determine seasonal bloom dynamics. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 594-603	4.3	29
40	A cost-effectiveness analysis of water security and water quality: impacts of climate and land-use change on the River Thames system. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120413	3	44
39	Physico-chemical factors alone cannot simulate phytoplankton behaviour in a lowland river. <i>Journal of Hydrology</i> , 2013 , 497, 223-233	6	25
38	Compliance to oseltamivir among two populations in Oxfordshire, United Kingdom affected by influenza A(H1N1)pdm09, November 2009—a waste water epidemiology study. <i>PLoS ONE</i> , 2013 , 8, e60221	2.7	24
37	Spatial and temporal changes in chlorophyll-a concentrations in the River Thames basin, UK: are phosphorus concentrations beginning to limit phytoplankton biomass?. <i>Science of the Total Environment</i> , 2012 , 426, 45-55	10.2	76
36	Lowland river water quality: a new UK data resource for process and environmental management analysis. <i>Hydrological Processes</i> , 2012 , 26, 949-960	3.3	28
35	High-frequency phosphorus monitoring of the River Kennet, UK: are ecological problems due to intermittent sewage treatment works failures?. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 3137-45		13
34	Within-river phosphorus retention: accounting for a missing piece in the watershed phosphorus puzzle. <i>Environmental Science & Technology</i> , 2012 , 46, 13284-92	10.3	80
33	Consumer-resource elemental imbalances in a nutrient-rich stream. <i>Freshwater Science</i> , 2012 , 31, 408-422		27
32	Nutrient and light limitation of periphyton in the River Thames: implications for catchment management. <i>Science of the Total Environment</i> , 2012 , 434, 201-12	10.2	83
31	Hydrochemical processes in lowland rivers: insights from in situ, high-resolution monitoring. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 4323-4342	5.5	99
30	An assessment of the fate, behaviour and environmental risk associated with sunscreen TiO ₂ nanoparticles in UK field scenarios. <i>Science of the Total Environment</i> , 2011 , 409, 2503-10	10.2	126
29	Changes in water quality of the River Frome (UK) from 1965 to 2009: is phosphorus mitigation finally working?. <i>Science of the Total Environment</i> , 2011 , 409, 3418-30	10.2	52
28	A review and model assessment of (32)P and (33)P uptake to biota in freshwater systems. <i>Journal of Environmental Radioactivity</i> , 2011 , 102, 317-25	2.4	7
27	Phosphorus release from sediments in a treatment wetland: Contrast between DET and EPCO methodologies. <i>Ecological Engineering</i> , 2011 , 37, 826-832	3.9	36
26	Eutrophication impacts on a river macrophyte. <i>Aquatic Botany</i> , 2010 , 92, 173-178	1.8	28

25	Streamwater phosphorus and nitrogen across a gradient in rural agricultural land use intensity. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 135, 238-252	5.7	88
24	Decreasing boron concentrations in UK rivers: insights into reductions in detergent formulations since the 1990s and within-catchment storage issues. <i>Science of the Total Environment</i> , 2010 , 408, 1374-85	10.2	28
23	Predicting phosphorus concentrations in British rivers resulting from the introduction of improved phosphorus removal from sewage effluent. <i>Science of the Total Environment</i> , 2010 , 408, 4239-50	10.2	46
22	Are groundwater nitrate concentrations reaching a turning point in some chalk aquifers?. <i>Science of the Total Environment</i> , 2010 , 408, 4722-32	10.2	20
21	Sewage effluent clean-up reduces phosphorus but not phytoplankton in lowland chalk stream (River Kennet, UK) impacted by water mixing from adjacent canal. <i>Science of the Total Environment</i> , 2010 , 408, 5306-16	10.2	18
20	Changes in point and diffuse source phosphorus inputs to the River Frome (Dorset, UK) from 1966 to 2006. <i>Science of the Total Environment</i> , 2009 , 407, 1954-66	10.2	38
19	Water quality, nutrients and the European union's Water Framework Directive in a lowland agricultural region: Suffolk, south-east England. <i>Science of the Total Environment</i> , 2009 , 407, 2966-79	10.2	26
18	The value of high-resolution nutrient monitoring: A case study of the River Frome, Dorset, UK. <i>Journal of Hydrology</i> , 2009 , 378, 82-96	6	91
17	Fate of silica nanoparticles in simulated primary wastewater treatment. <i>Environmental Science & Technology</i> , 2009 , 43, 8622-8	10.3	114
16	Modelling of phosphorus inputs to rivers from diffuse and point sources. <i>Science of the Total Environment</i> , 2008 , 395, 125-38	10.2	131
15	Long-term changes in macroinvertebrate communities of a heavy metal polluted stream: the river Nent (Cumbria, UK) after 28 years. <i>River Research and Applications</i> , 2007 , 23, 997-1015	2.3	68
14	Periphyton biomass response to changing phosphorus concentrations in a nutrient-impacted river: a new methodology for phosphorus target setting. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007 , 64, 227-238	2.4	44
13	How green is my river? A new paradigm of eutrophication in rivers. <i>Science of the Total Environment</i> , 2006 , 365, 66-83	10.2	360
12	Modelling the dispersion of radionuclides following short duration releases to rivers: Part 1. Water and sediment. <i>Science of the Total Environment</i> , 2006 , 368, 485-501	10.2	13
11	Modeling of river dynamics of phosphorus under unsteady flow conditions. <i>Water Resources Research</i> , 2006 , 42,	5.4	5
10	Phosphorus-discharge hysteresis during storm events along a river catchment: the River Swale, UK. <i>Water Research</i> , 2005 , 39, 751-62	12.5	117
9	Seasonal nutrient dynamics in a chalk stream: the River Frome, Dorset, UK. <i>Science of the Total Environment</i> , 2005 , 336, 225-41	10.2	58
8	The relative contribution of sewage and diffuse phosphorus sources in the River Avon catchment, southern England: implications for nutrient management. <i>Science of the Total Environment</i> , 2005 , 344, 67-81	10.2	70

7	Phosphorus dynamics along a river continuum. <i>Science of the Total Environment</i> , 2003 , 313, 199-212	10.2	108
6	Phosphorus and dissolved silicon dynamics in the River Swale catchment, UK: a mass-balance approach. <i>Hydrological Processes</i> , 2001 , 15, 261-280	3.3	64
5	Seasonal export of phosphorus from a lowland catchment: upper River Cherwell in Oxfordshire, England. <i>Science of the Total Environment</i> , 2001 , 269, 117-30	10.2	56
4	Investigating periphyton biofilm response to changing phosphorus concentrations in UK rivers using within-river flumes		5
3	The impact of sequencing depth on the inferred taxonomic composition and AMR gene content of metagenomic samples		1
2	Landscape controls on riverine export of dissolved organic carbon from Great Britain. <i>Biogeochemistry</i> , 1	3.8	8
1	Water Quality 240-266		1