

Michael J Bowes

List of Publications by Citations

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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 | 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 |
| 95 | Sensors in the Stream: The High-Frequency Wave of the Present. <i>Environmental Science & Technology</i> , 2016 , 50, 10297-10307 | 10.3 | 162 |
| 94 | 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 |
| 93 | Catchment-scale biogeography of riverine bacterioplankton. <i>ISME Journal</i> , 2015 , 9, 516-26 | 11.9 | 134 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | Fate of silica nanoparticles in simulated primary wastewater treatment. <i>Environmental Science & Technology</i> , 2009 , 43, 8622-8 | 10.3 | 114 |
| 88 | Phosphorus dynamics along a river continuum. <i>Science of the Total Environment</i> , 2003 , 313, 199-212 | 10.2 | 108 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | Validated predictive modelling of the environmental resistome. <i>ISME Journal</i> , 2015 , 9, 1467-76 | 11.9 | 85 |
| 83 | 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 |
| 82 | 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 |
| 81 | 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 |
| 80 | 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 | 10.2 | 74 |

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|----|--|------|----|
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | Responses of Aquatic Plants to Eutrophication in Rivers: A Revised Conceptual Model. <i>Frontiers in Plant Science</i> , 2018 , 9, 451 | 6.2 | 50 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |

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|----|--|------|----|
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | Eutrophication impacts on a river macrophyte. <i>Aquatic Botany</i> , 2010 , 92, 173-178 | 1.8 | 28 |
| 52 | 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 |
| 51 | Impacts of phosphorus concentration and light intensity on river periphyton biomass and community structure. <i>Hydrobiologia</i> , 2017 , 792, 315-330 | 2.4 | 27 |
| 50 | 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 |
| 49 | Consumer-resource elemental imbalances in a nutrient-rich stream. <i>Freshwater Science</i> , 2012 , 31, 408-422 | | 27 |
| 48 | 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 |
| 47 | Physico-chemical factors alone cannot simulate phytoplankton behaviour in a lowland river. <i>Journal of Hydrology</i> , 2013 , 497, 223-233 | 6 | 25 |
| 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 | 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 | 3.7 | 24 |
| 44 | 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 |

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| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | Riparian shading controls instream spring phytoplankton and benthic algal growth. <i>Environmental Sciences: Processes and Impacts</i> , 2016 , 18, 677-89 | 4.3 | 16 |
| 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 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | Niche and local geography shape the pangenome of wastewater- and livestock-associated Enterobacteriaceae. <i>Science Advances</i> , 2021 , 7, | 14.3 | 12 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |

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| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Contrasting community assembly processes structure lotic bacteria metacommunities along the river continuum. <i>Environmental Microbiology</i> , 2021 , 23, 484-498 | 5.2 | 8 |
| 21 | Landscape controls on riverine export of dissolved organic carbon from Great Britain. <i>Biogeochemistry</i> , 2021 , 11, 1-11 | 3.8 | 8 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | Modeling of river dynamics of phosphorus under unsteady flow conditions. <i>Water Resources Research</i> , 2006 , 42, | 5.4 | 5 |
| 11 | Investigating periphyton biofilm response to changing phosphorus concentrations in UK rivers using within-river flumes | | 5 |
| 10 | 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 |
| 9 | Genomic network analysis of environmental and livestock F-type plasmid populations. <i>ISME Journal</i> , 2021 , 15, 2322-2335 | 11.9 | 4 |
| 8 | 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 |

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| 7 | 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 |
| 6 | 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 |
| 5 | The impact of sequencing depth on the inferred taxonomic composition and AMR gene content of metagenomic samples | | 1 |
| 4 | 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 |
| 3 | 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 |
| 2 | Water Quality240-266 | | 1 |
| 1 | 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 |