# P G Whitehead

List of Publications by Year
in descending order



| 61 | 3,376 | 159525 30 | 143943 57 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 63 | 63 | 63 | 3615 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A review of the potential impacts of climate change on surface water quality. Hydrological Sciences Journal, 2009, 54, 101-123. | 1.2 | 875 |
| 2 | A nitrogen model for European catchments: INCA, new model structure and equations. Hydrology and Earth System Sciences, 2002, 6, 559-582. | 1.9 | 242 |
| 3 | Modeling the mechanisms that control in-stream dissolved organic carbon dynamics in upland and forested catchments. Water Resources Research, 2007, 43, . | 1.7 | 162 |
| 4 | The Integrated Catchments model of Phosphorus dynamics (INCA-P), a new approach for multiple source assessment in heterogeneous river systems: model structure and equations. Hydrology and Earth System Sciences, 2002, 6, 583-606. | 1.9 | 137 |
| 5 | Impacts of climate change and socio-economic scenarios on flow and water quality of the Ganges, Brahmaputra and Meghna (GBM) river systems: low flow and flood statistics. Environmental Sciences: Processes and Impacts, 2015, 17, 1057-1069. | 1.7 | 109 |
| 6 | Impacts of climate change on in-stream nitrogen in a lowland chalk stream: An appraisal of adaptation strategies. Science of the Total Environment, 2006, 365, 260-273. | 3.9 | 103 |
| 7 | PERSiST: a flexible rainfall-runoff modelling toolkit for use with the INCA family of models. Hydrology and Earth System Sciences, 2014, 18, 855-873. | 1.9 | 84 |
| 8 | The water quality of the River Kennet: initial observations on a lowland chalk stream impacted by sewage inputs and phosphorus remediation. Science of the Total Environment, 2000, 251-252, 477-495. | 3.9 | 81 |
| 9 | Dynamic modeling of the Ganga river system: impacts of future climate and socio-economic change on flows and nitrogen fluxes in India and Bangladesh. Environmental Sciences: Processes and Impacts, 2015, 17, 1082-1097. | 1.7 | 73 |
| 10 | On modeling the mechanisms that control in-stream phosphorus, macrophyte, and epiphyte dynamics: An assessment of a new model using general sensitivity analysis. Water Resources Research, 2001, 37, 2777-2792. | 1.7 | 67 |
| 11 | Steady state and dynamic modelling of nitrogen in the River Kennet: impacts of land use change since the 1930s. Science of the Total Environment, 2002, 282-283, 417-434. | 3.9 | 63 |
| 12 | Potential impacts of climate change on water quality and ecology in six UK rivers. Hydrology Research, 2009, 40, 113-122. | 1.1 | 60 |
| 13 | Title is missing!. Hydrobiologia, 1997, 349, 39-46. | 1.0 | 57 |
| 14 | On modelling the flow controls on macrophyte and epiphyte dynamics in a lowland permeable catchment: the River Kennet, southern England. Science of the Total Environment, 2002, 282-283, 375-393. | 3.9 | 56 |
| 15 | Bioremediation of acid mine drainage: an introduction to the Wheal Jane wetlands project. Science of the Total Environment, 2005, 338, 15-21. | 3.9 | 55 |
| 16 | Modelling heavy metals in the Buriganga River System, Dhaka, Bangladesh: Impacts of tannery pollution control. Science of the Total Environment, 2019, 697, 134090. | 3.9 | 55 |
| 17 | Preliminary empirical models of the historical and future impact of acidification on the ecology of Welsh streams. Freshwater Biology, 1988, 20, 127-140. | 1.2 | 53 |
| 18 | On modelling the impacts of phosphorus stripping at sewage works on in-stream phosphorus and macrophyte/epiphyte dynamics: a case study for the River Kennet. Science of the Total Environment, 2002, 282-283, 395-415. | 3.9 | 53 |

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|---|---|---|---|
| 19 | Macronutrient cycles and climate change: Key science areas and an international perspective. Science of the Total Environment, 2012, 434, 13-17. | 3.9 | 52 |
| 20 | A cost-effectiveness analysis of water security and water quality: impacts of climate and land-use change on the River Thames system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120413. | 1.6 | 52 |
| 21 | Water quality modelling of the Mekong River basin: Climate change and socioeconomics drive flow and nutrient flux changes to the Mekong Delta. Science of the Total Environment, 2019, 673, 218-229. | 3.9 | 48 |
| 22 | The interactive responses of water quality and hydrology to changes in multiple stressors, and implications for the long-term effective management of phosphorus. Science of the Total Environment, 2013, 454-455, 230-244. | 3.9 | 47 |
| 23 | Impacts of climate change scenarios on dissolved oxygen in the River Thames, UK. Hydrology Research, 2009, 40, 138-152. | 1.1 | 42 |
| 24 | Restoring acidified streams in upland Wales: A modelling comparison of the chemical and biological effects of liming and reduced sulphate deposition. Environmental Pollution, 1990, 64, 67-85. | 3.7 | 41 |
| 25 | River toxicity assessment using molecular biosensors: Heavy metal contamination in the Turag-Balu-Buriganga river systems, Dhaka, Bangladesh. Science of the Total Environment, 2020, 703, 134760. | 3.9 | 40 |
| 26 | Modelling phosphorus dynamics in multi-branch river systems: A study of the Black River, Lake Simcoe, Ontario, Canada. Science of the Total Environment, 2011, 412-413, 315-323. | 3.9 | 37 |
| 27 | Hydrological studies of schistosomiasis transport in Sichuan Province, China. Science of the Total Environment, 1998, 216, 193-203. | 3.9 | 36 |
| 28 | Assessing the impacts of climate change and socio-economic changes on flow and phosphorus flux in the Ganga river system. Environmental Sciences: Processes and Impacts, 2015, 17, 1098-1110. | 1.7 | 35 |
| 29 | The prediction and management of aquatic nitrogen pollution across Europe: an introduction to the Integrated Nitrogen in European Catchments project (INCA). Hydrology and Earth System Sciences, 2002, 6, 299-313. | 1.9 | 34 |
| 30 | Modelling long term stream acidification trends in upland wales at plynlimon. Hydrological Processes, 1988, 2, 357-368. | 1.1 | 32 |
| 31 | Modelling nitrogen dynamics and distributions in the River Tweed, Scotland: an application of the INCA model. Hydrology and Earth System Sciences, 2002, 6, 433-454. | 1.9 | 32 |
| 32 | Excess nitrogen leaching and C/N decline in the Tillingbourne catchment, southern England: INCA process modelling for current and historic time series. Hydrology and Earth System Sciences, 2002, 6, 455-466. | 1.9 | 32 |
| 33 | An INCA model for pathogens in rivers and catchments: Model structure, sensitivity analysis and application to the River Thames catchment, UK. Science of the Total Environment, 2016, 572, 1601-1610. | 3.9 | 31 |
| 34 | Fate and transport of polychlorinated biphenyls (PCBs) in the River Thames catchment â€“ Insights from a coupled multimedia fate and hydrobiogeochemical transport model. Science of the Total Environment, 2016, 572, 1461-1470. | 3.9 | 29 |
| 35 | Chemical behaviour of the Wheal Jane bioremediation system. Science of the Total Environment, 2005, 338, 41-51. | 3.9 | 28 |
| 36 | INCA Modelling of the Lee System: strategies for the reduction of nitrogen loads. Hydrology and Earth System Sciences, 2002, 6, 467-484. | 1.9 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Using the INCA-Hg model of mercury cycling to simulate total and methyl mercury concentrations in forest streams and catchments. Science of the Total Environment, 2012, 424, 219-231. | 3.9 | 24 |
| 38 | Flow pathways and nutrient transport mechanisms drive hydrochemical sensitivity to climate change across catchments with different geology and topography. Hydrology and Earth System Sciences, 2014, 18, 5125-5148. | 1.9 | 24 |
| 39 | Optimizing land management strategies for maximum improvements in lake dissolved oxygen concentrations. Science of the Total Environment, 2019, 652, 382-397. | 3.9 | 24 |
| 40 | Rainfall runoff modelling of the Upper Ganga and Brahmaputra basins using PERSiST. Environmental Sciences: Processes and Impacts, 2015, 17, 1070-1081. | 1.7 | 22 |
| 41 | Simulating metals and mine discharges in river basins using a new integrated catchment model for metals: pollution impacts and restoration strategies in the Aries-Mures river system in Transylvania, Romania. Hydrology Research, 2009, 40, 323-346. | 1.1 | 21 |
| 42 | Estimating uncertainty in terrestrial critical loads and their exceedances at four sites in the UK. Science of the Total Environment, 2007, 382, 199-213. | 3.9 | 19 |
| 43 | Modelling metaldehyde in catchments: a River Thames case-study. Environmental Sciences: Processes and Impacts, 2017, 19, 586-595. | 1.7 | 19 |
| 44 | The Wheal Jane wetlands model for bioremediation of acid mine drainage. Science of the Total Environment, 2005, 338, 125-135. | 3.9 | 17 |
| 45 | The potential impacts of climate change on hydropower generation in Mid Wales. Hydrology Research, 2013, 44, 495-505. | 1.1 | 17 |
| 46 | Distributed and dynamic modelling of hydrology, phosphorus and ecology in the Hampshire Avon and Blashford Lakes: Evaluating alternative strategies to meet WFD standards. Science of the Total Environment, 2014, 481, 157-166. | 3.9 | 17 |
| 47 | Quantifying Uncertainty in Critical Loads: (B) Acidity Mass Balance Critical Loads on a Sensitive Site. Water, Air, and Soil Pollution, 2006, 169, 25-46. | 1.1 | 16 |
| 48 | Nitrous Oxide Emissions from Two Riparian Ecosystems: Key Controlling Variables. Water, Air and Soil Pollution, 2004, 4, 427-436. | 0.8 | 15 |
| 49 | Reconciling observed and modelled phytoplankton dynamics in a major lowland UK river, the Thames. Hydrology Research, 2012, 43, 576-588. | 1.1 | 12 |
| 50 | Integrated Nitrogen CAtchment model (INCA) applied to a tropical catchment in the Atlantic Forest, SÃ£o Paulo, Brazil. Hydrology and Earth System Sciences, 2007, 11, 614-622. | 1.9 | 10 |
| 51 | Modelling acidification at Beacon Hillâ€"a low rainfall, high pollutant deposition site in Central England. Environmental Pollution, 1993, 79, 277-281. | 3.7 | 9 |
| 52 | The effectiveness and resilience of phosphorus management practices in the Lake Simcoe watershed, Ontario, Canada. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2390-2409. | 1.3 | 8 |
| 53 | INCA : summary and conclusions. Hydrology and Earth System Sciences, 2002, 6, 607-615. | 1.9 | 7 |
| 54 | Impacts of forestry on nitrogen in upland and lowland catchments: a comparison of the River Severn at Plynlimon in mid-Wales and the Bedford Ouse in south-east England using the INCA Model. Hydrology and Earth System Sciences, 2004, 8, 533-544. | 1.9 | 7 |

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|---|---|---|---|
| 55 | Modelling impacts of seasonal wastewater treatment plant effluent permits and biosolid substitution for phosphorus management in catchments and river systems. Hydrology Research, 2015, 46, 313-324. | 1.1 | 6 |
| 56 | Hydrochemical modelling of acidification in Wales. Monographiae Biologicae, 1990, , 255-277. | 0.1 | 6 |
| 57 | Modelling impacts of pollution in river systems: a new dispersion model and a case study of mine discharges in the Abrud, Aries and Mures River System in Transylvania, Romania. Hydrology Research, 2009, 40, 306-322. | 1.1 | 5 |
| 58 | Bridging gaps across macronutrient cycles. Science of the Total Environment, 2016, 572, 1447-1448. | 3.9 | 3 |
| 59 | Modelling stream and soil water nitrate dynamics during experimentally increased nitrogen deposition in a coniferous forest catchment at GÃ¥rdsjÃ¶n, Sweden. Hydrology Research, 2009, 40, 187-197. | 1.1 | 2 |
| 60 | Modelling and reconstruction of the River Kennet palaeohydrology and hydrogeology: Silbury Hill and Avebury in 4,400 BP. Hydrology Research, 2012, 43, 551-559. | 1.1 | 2 |
| 61 | Development of a Liming Prediction Model for Llyn Brianne. Water and Environment Journal, 1999, 13, 275-279. | 1.0 | 0 |