

P G Whitehead

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,376
citations

159525

30
h-index

143943

57
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63
all docs

63
docs citations

63
times ranked

3615
citing authors

#	ARTICLE	IF	CITATIONS
1	River toxicity assessment using molecular biosensors: Heavy metal contamination in the Turag-Balu-Buriganga river systems, Dhaka, Bangladesh. <i>Science of the Total Environment</i> , 2020, 703, 134760.	3.9	40
2	Modelling heavy metals in the Buriganga River System, Dhaka, Bangladesh: Impacts of tannery pollution control. <i>Science of the Total Environment</i> , 2019, 697, 134090.	3.9	55
3	Water quality modelling of the Mekong River basin: Climate change and socioeconomics drive flow and nutrient flux changes to the Mekong Delta. <i>Science of the Total Environment</i> , 2019, 673, 218-229.	3.9	48
4	Optimizing land management strategies for maximum improvements in lake dissolved oxygen concentrations. <i>Science of the Total Environment</i> , 2019, 652, 382-397.	3.9	24
5	Modelling metaldehyde in catchments: a River Thames case-study. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 586-595.	1.7	19
6	Bridging gaps across macronutrient cycles. <i>Science of the Total Environment</i> , 2016, 572, 1447-1448.	3.9	3
7	An INCA model for pathogens in rivers and catchments: Model structure, sensitivity analysis and application to the River Thames catchment, UK. <i>Science of the Total Environment</i> , 2016, 572, 1601-1610.	3.9	31
8	The effectiveness and resilience of phosphorus management practices in the Lake Simcoe watershed, Ontario, Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2390-2409.	1.3	8
9	Fate and transport of polychlorinated biphenyls (PCBs) in the River Thames catchment – Insights from a coupled multimedia fate and hydrobiogeochemical transport model. <i>Science of the Total Environment</i> , 2016, 572, 1461-1470.	3.9	29
10	Modelling impacts of seasonal wastewater treatment plant effluent permits and biosolid substitution for phosphorus management in catchments and river systems. <i>Hydrology Research</i> , 2015, 46, 313-324.	1.1	6
11	Rainfall runoff modelling of the Upper Ganga and Brahmaputra basins using PERSiST. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1070-1081.	1.7	22
12	Dynamic modeling of the Ganga river system: impacts of future climate and socio-economic change on flows and nitrogen fluxes in India and Bangladesh. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1082-1097.	1.7	73
13	Assessing the impacts of climate change and socio-economic changes on flow and phosphorus flux in the Ganga river system. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1098-1110.	1.7	35
14	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. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1057-1069.	1.7	109
15	PERSiST: a flexible rainfall-runoff modelling toolkit for use with the INCA family of models. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 855-873.	1.9	84
16	Flow pathways and nutrient transport mechanisms drive hydrochemical sensitivity to climate change across catchments with different geology and topography. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 5125-5148.	1.9	24
17	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.	3.9	17
18	The interactive responses of water quality and hydrology to changes in multiple stressors, and implications for the long-term effective management of phosphorus. <i>Science of the Total Environment</i> , 2013, 454-455, 230-244.	3.9	47

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19	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.	1.6	52
20	The potential impacts of climate change on hydropower generation in Mid Wales. <i>Hydrology Research</i> , 2013, 44, 495-505.	1.1	17
21	Modelling and reconstruction of the River Kennet palaeohydrology and hydrogeology: Silbury Hill and Avebury in 4,400 BP. <i>Hydrology Research</i> , 2012, 43, 551-559.	1.1	2
22	Reconciling observed and modelled phytoplankton dynamics in a major lowland UK river, the Thames. <i>Hydrology Research</i> , 2012, 43, 576-588.	1.1	12
23	Macronutrient cycles and climate change: Key science areas and an international perspective. <i>Science of the Total Environment</i> , 2012, 434, 13-17.	3.9	52
24	Using the INCA-Hg model of mercury cycling to simulate total and methyl mercury concentrations in forest streams and catchments. <i>Science of the Total Environment</i> , 2012, 424, 219-231.	3.9	24
25	Modelling phosphorus dynamics in multi-branch river systems: A study of the Black River, Lake Simcoe, Ontario, Canada. <i>Science of the Total Environment</i> , 2011, 412-413, 315-323.	3.9	37
26	Modelling stream and soil water nitrate dynamics during experimentally increased nitrogen deposition in a coniferous forest catchment at Gårdsjö, Sweden. <i>Hydrology Research</i> , 2009, 40, 187-197.	1.1	2
27	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. <i>Hydrology Research</i> , 2009, 40, 323-346.	1.1	21
28	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. <i>Hydrology Research</i> , 2009, 40, 306-322.	1.1	5
29	Impacts of climate change scenarios on dissolved oxygen in the River Thames, UK. <i>Hydrology Research</i> , 2009, 40, 138-152.	1.1	42
30	Potential impacts of climate change on water quality and ecology in six UK rivers. <i>Hydrology Research</i> , 2009, 40, 113-122.	1.1	60
31	A review of the potential impacts of climate change on surface water quality. <i>Hydrological Sciences Journal</i> , 2009, 54, 101-123.	1.2	875
32	Modeling the mechanisms that control in-stream dissolved organic carbon dynamics in upland and forested catchments. <i>Water Resources Research</i> , 2007, 43, .	1.7	162
33	Integrated Nitrogen CAatchment model (INCA) applied to a tropical catchment in the Atlantic Forest, São Paulo, Brazil. <i>Hydrology and Earth System Sciences</i> , 2007, 11, 614-622.	1.9	10
34	Estimating uncertainty in terrestrial critical loads and their exceedances at four sites in the UK. <i>Science of the Total Environment</i> , 2007, 382, 199-213.	3.9	19
35	Quantifying Uncertainty in Critical Loads: (B) Acidity Mass Balance Critical Loads on a Sensitive Site. <i>Water, Air, and Soil Pollution</i> , 2006, 169, 25-46.	1.1	16
36	Impacts of climate change on in-stream nitrogen in a lowland chalk stream: An appraisal of adaptation strategies. <i>Science of the Total Environment</i> , 2006, 365, 260-273.	3.9	103

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37	Chemical behaviour of the Wheal Jane bioremediation system. Science of the Total Environment, 2005, 338, 41-51.	3.9	28
38	The Wheal Jane wetlands model for bioremediation of acid mine drainage. Science of the Total Environment, 2005, 338, 125-135.	3.9	17
39	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
40	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
41	Nitrous Oxide Emissions from Two Riparian Ecosystems: Key Controlling Variables. Water, Air and Soil Pollution, 2004, 4, 427-436.	0.8	15
42	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
43	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
44	INCA : summary and conclusions. Hydrology and Earth System Sciences, 2002, 6, 607-615.	1.9	7
45	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
46	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
47	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
48	A nitrogen model for European catchments: INCA, new model structure and equations. Hydrology and Earth System Sciences, 2002, 6, 559-582.	1.9	242
49	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
50	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
51	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
52	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
53	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
54	Development of a Liming Prediction Model for Llyn Brianne. Water and Environment Journal, 1999, 13, 275-279.	1.0	0

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55	Hydrological studies of schistosomiasis transport in Sichuan Province, China. <i>Science of the Total Environment</i> , 1998, 216, 193-203.	3.9	36
56	Title is missing!. <i>Hydrobiologia</i> , 1997, 349, 39-46.	1.0	57
57	Modelling acidification at Beacon Hill—a low rainfall, high pollutant deposition site in Central England. <i>Environmental Pollution</i> , 1993, 79, 277-281.	3.7	9
58	Restoring acidified streams in upland Wales: A modelling comparison of the chemical and biological effects of liming and reduced sulphate deposition. <i>Environmental Pollution</i> , 1990, 64, 67-85.	3.7	41
59	Hydrochemical modelling of acidification in Wales. <i>Monographiae Biologicae</i> , 1990, , 255-277.	0.1	6
60	Modelling long term stream acidification trends in upland wales at plynlimon. <i>Hydrological Processes</i> , 1988, 2, 357-368.	1.1	32
61	Preliminary empirical models of the historical and future impact of acidification on the ecology of Welsh streams. <i>Freshwater Biology</i> , 1988, 20, 127-140.	1.2	53