Gianbattista Bussi

List of Publications by Year
in descending order

40 papers	1,784 citations	236925 25 h-index	315739 38 g-index
44 all docs	44 docs citations	44 times ranked	2347 citing authors

#	Article	IF	Citations
1	Ecotoxicity of microplastics to freshwater biota: Considering exposure and hazard across trophic levels. Science of the Total Environment, 2022, 816, 151638.	8.0	46
2	Impact of dams and climate change on suspended sediment flux to the Mekong delta. Science of the Total Environment, 2021, 755, 142468.	8.0	54
3	Impacts of Climate Change and Population Growth on River Nutrient Loads in a Data Scarce Region: The Upper Awash River (Ethiopia). Sustainability, 2021, 13, 1254.	3.2	16
4	A New Multibranch Model for Metals in River Systems: Impacts and Control of Tannery Wastes in Bangladesh. Sustainability, 2021, 13, 3556.	3.2	5
5	A New, Catchment-Scale Integrated Water Quality Model of Phosphorus, Dissolved Oxygen, Biochemical Oxygen Demand and Phytoplankton: INCA-Phosphorus Ecology (PEco). Water (Switzerland), 2021, 13, 723.	2.7	13
6	Modelling Microplastics in the River Thames: Sources, Sinks and Policy Implications. Water (Switzerland), 2021, 13, 861.	2.7	29
7	Natural and anthropogenic sources of salinity in the Awash River and Lake Beseka (Ethiopia): Modelling impacts of climate change and lake-river interactions. Journal of Hydrology: Regional Studies, 2021, 36, 100865.	2.4	8
8	Impacts of droughts on low flows and water quality near power stations. Hydrological Sciences Journal, 2020, 65, 898-913.	2.6	6
9	Assessment of Risks to Public Water Supply From Low Flows and Harmful Water Quality in a Changing Climate. Water Resources Research, 2019, 55, 10386-10404.	4.2	25
10	Modelling heavy metals in the Buriganga River System, Dhaka, Bangladesh: Impacts of tannery pollution control. Science of the Total Environment, 2019, 697, 134090.	8.0	55
11	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.	8.0	48
12	Modelling the effects of climate and land-use change on the hydrochemistry and ecology of the River Wye (Wales). Science of the Total Environment, 2018, 627, 733-743.	8.0	17
13	Restoring water quality in the polluted Turag-Tongi-Balu river system, Dhaka: Modelling nutrient and total coliform intervention strategies. Science of the Total Environment, 2018, 631-632, 223-232.	8.0	42
14	A large set of potential past, present and future hydro-meteorological time series for the UK. Hydrology and Earth System Sciences, 2018, 22, 611-634.	4.9	54
15	Modeling Sediment Yield in Semiâ€Arid Pasture Microâ€Catchments, NW Iran. Land Degradation and Development, 2017, 28, 1274-1286.	3.9	42
16	During a winter of storms in a small UK catchment, hydrology and water quality responses follow a clear rural-urban gradient. Journal of Hydrology, 2017, 545, 463-477.	5.4	25
17	Modelling metaldehyde in catchments: a River Thames case-study. Environmental Sciences: Processes and Impacts, 2017, 19, 586-595.	3.5	19
18	Dynamic response of land use and river nutrient concentration to long-term climatic changes. Science of the Total Environment, 2017, 590-591, 818-831.	8.0	40

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19	Modeling the sedimentary response of a large Pyrenean basin to global change. Journal of Soils and Sediments, 2017, 17, 2677-2690.	3.0	9
20	Climate and land-use change impact on faecal indicator bacteria in a temperate maritime catchment (the River Conwy, Wales). Journal of Hydrology, 2017, 553, 248-261.	5.4	19
21	Seasonal and Interannual Changes in Sediment Transport Identified through Sediment Rating Curves. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	35
22	Using post-flood surveys and geomorphologic mapping to evaluate hydrological and hydraulic models: The flash flood of the Girona River (Spain) in 2007. Journal of Hydrology, 2016, 541, 310-329.	5.4	48
23	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.	8.0	31
24	Flow regulation increases foodâ€chain length through omnivory mechanisms in a Mediterranean river network. Freshwater Biology, 2016, 61, 1536-1549.	2.4	28
25	Modelling the future impacts of climate and land-use change on suspended sediment transport in the River Thames (UK). Journal of Hydrology, 2016, 542, 357-372.	5.4	103
26	A theoretical assessment of microplastic transport in river catchments and their retention by soils and river sediments. Environmental Sciences: Processes and Impacts, 2016, 18, 1050-1059.	3.5	455
27	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.	8.0	29
28	Can a parsimonious model implemented with satellite data be used for modelling the vegetation dynamics and water cycle in water-controlled environments?. Ecological Modelling, 2016, 324, 45-53.	2.5	27
29	Impacts of climate change, land-use change and phosphorus reduction on phytoplankton in the River Thames (UK). Science of the Total Environment, 2016, 572, 1507-1519.	8.0	76
30	Effects of afforestation on runoff and sediment load in an upland Mediterranean catchment. Science of the Total Environment, 2016, 540, 144-157.	8.0	90
31	Patterns of runoff and sediment production in response to land-use changes in an ungauged Mediterranean catchment. Journal of Hydrology, 2015, 531, 1054-1066.	5.4	33
32	Climate change impacts on discharges of the Rhone River in Lyon by the end of the twenty-first century: model results and implications. Regional Environmental Change, 2015, 15, 505-515.	2.9	25
33	Dynamic modelling of multiple phytoplankton groups in rivers with an application to the Thames river system in the UK. Environmental Modelling and Software, 2015, 74, 75-91.	4.5	35
34	AnÃ¡lisis del impacto del cambio climÃ¡tico en el ciclo de sedimentos de la cuenca del rÃo Ã‰sera (EspaÃ±a) mediante un modelo hidrolÃ³gico distribuido. Ribagua, 2014, 1, 14-25.	0.3	3
35	Modelling the impact of climate change on sediment yield in a highly erodible Mediterranean catchment. Journal of Soils and Sediments, 2014, 14, 1921-1937.	3.0	44
36	Distributed sediment yield modelling: Importance of initial sediment conditions. Environmental Modelling and Software, 2014, 58, 58-70.	4.5	55

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37	Sediment yield model implementation based on check dam infill stratigraphy in a semiarid Mediterranean catchment. Hydrology and Earth System Sciences, 2013, 17, 3339-3354.	4.9	70
38	Transient Two-Dimensional Simulation of Real Flood Events in a Mediterranean Floodplain. Journal of Hydraulic Engineering, 2012, 138, 629-641.	1.5	10
39	High return period annual maximum reservoir water level quantiles estimation using synthetic generated flood events. , 2011, , 185-190.		6
40	Green infrastructure and climate change impacts on the flows and water quality of urban catchments: Salmons Brook and Pymmes Brook in north-east London. Hydrology Research, 0, , .	2.7	2