Peter M Bach

List of Publications by Year
in descending order

46 papers	1,901 citations	236925 25 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	1862 citing authors

#	Article	IF	Citations
1	A Simplified Sanitary Sewer System Generator for Exploratory Modelling at City-Scale. Water Research, 2022, 209, 117903.	11.3	8
2	Reconciling cities with nature: Identifying local Blue-Green Infrastructure interventions for regional biodiversity enhancement. Journal of Environmental Management, 2022, 316, 115254.	7.8	34
3	Planning support systems for strategic implementation of nature-based solutions in the global south: Current role and future potential in Indonesia. Cities, 2022, 126, 103693.	5.6	4
4	Multi-scale stormwater harvesting to enhance urban resilience to climate change impacts and natural disasters. Blue-Green Systems, 2022, 4, 58-74.	2.0	6
5	Stormwater management impacts of small urbanising towns: The necessity of investigating the â€˜devil in the detailâ€™. Science of the Total Environment, 2021, 757, 143835.	8.0	11
6	A rapid fine-scale approach to modelling urban bioclimatic conditions. Science of the Total Environment, 2021, 756, 143732.	8.0	22
7	Not all SuDS are created equal: Impact of different approaches on combined sewer overflows. Water Research, 2021, 191, 116780.	11.3	56
8	A Low-Cost Water Depth and Electrical Conductivity Sensor for Detecting Inputs into Urban Stormwater Networks. Sensors, 2021, 21, 3056.	3.8	13
9	Rainwater harvesting for urban flood management â€“ An integrated modelling framework. Water Research, 2020, 171, 115372.	11.3	108
10	Quantifying the benefits of stormwater harvesting for pollution mitigation. Water Research, 2020, 171, 115395.	11.3	34
11	The multi-faceted nature of Blue-Green Systems coming to light. Blue-Green Systems, 2020, 2, 186-187.	2.0	7
12	A Geospatial Database for Effective Mine Rehabilitation in Australia. Minerals (Basel, Switzerland), 2020, 10, 745.	2.0	21
13	Green Infrastructures for Urban Water System: Balance between Cities and Nature. Water (Switzerland), 2020, 12, 1456.	2.7	11
14	A Research Agenda for the Future of Urban Water Management: Exploring the Potential of Nongrid, Small-Grid, and Hybrid Solutions. Environmental Science & Technology, 2020, 54, 5312-5322.	10.0	73
15	A spatial planning-support system for generating decentralised urban stormwater management schemes. Science of the Total Environment, 2020, 726, 138282.	8.0	27
16	Modelling a â€˜business caseâ€™ for blue-green infrastructure: lessons from the Water Sensitive Cities Toolkit. Blue-Green Systems, 2020, 2, 383-403.	2.0	12
17	A planning-support tool for spatial suitability assessment of green urban stormwater infrastructure. Science of the Total Environment, 2019, 686, 856-868.	8.0	80
18	Understanding spatiotemporal variability of in-stream water quality in urban environments â€“ A case study of Melbourne, Australia. Journal of Environmental Management, 2019, 246, 203-213.	7.8	30

#	Article	IF	Citations
19	A Cellular Automata Fast Flood Evaluation (CAâ€ffÃ©) Model. Water Resources Research, 2019, 55, 4936-4953.	4.2	62
20	Testing of new stormwater pollution build-up algorithms informed by a genetic programming approach. Journal of Environmental Management, 2019, 241, 12-21.	7.8	13
21	Sewer asset management â€“ state of the art and research needs. Urban Water Journal, 2019, 16, 662-675.	2.1	67
22	Modelling to Support the Planning of Sustainable Urban Water Systems. Green Energy and Technology, 2019, , 10-19.	0.6	1
23	Evaluating the reliability of stormwater treatment systems under various future climate conditions. Journal of Hydrology, 2019, 568, 57-66.	5.4	44
24	Modelling characteristics of the urban form to support water systems planning. Environmental Modelling and Software, 2018, 104, 249-269.	4.5	26
25	What drives the location choice for water sensitive infrastructure in Melbourne, Australia?. Landscape and Urban Planning, 2018, 175, 92-101.	7.5	48
26	Integrated modelling of stormwater treatment systems uptake. Water Research, 2018, 142, 301-312.	11.3	30
27	A rapid urban flood inundation and damage assessment model. Journal of Hydrology, 2018, 564, 1085-1098.	5.4	124
28	Conceptual Urban Water Balance Model for Water Policy Testing: An Approach for Large Scale Investigation. Sustainability, 2018, 10, 716.	3.2	11
29	Building effective Planning Support Systems for green urban water infrastructureâ€"Practitionersâ€™ perceptions. Environmental Science and Policy, 2018, 89, 153-162.	4.9	29
30	Reliability of Infrared Thermography in Detecting Leaks in Buried Water Reticulation Pipes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4210-4224.	4.9	39
31	Modelling transitions in urban water systems. Water Research, 2017, 126, 501-514.	11.3	52
32	Framing water sensitive urban design as part of the urban form: A critical review of tools for best planning practice. Environmental Modelling and Software, 2017, 96, 265-282.	4.5	100
33	Effects of Implementing Decentralized Water Supply Systems in Existing Centralized Systems. , 2017, , .		2
34	Impact of Hybrid Water Supply on the Centralised Water System. Water (Switzerland), 2017, 9, 855.	2.7	20
35	Use and Utility: Exploring the Diversity and Design of Water Models at the Science-Policy Interface. Water (Switzerland), 2017, 9, 983.	2.7	5
36	Designing and implementing a multi-core capable integrated urban drainage modelling Toolkit:Lessons from CityDrain3. Advances in Engineering Software, 2016, 100, 277-289.	3.8	15

#	Article	IF	Citations
37	Can we model the implementation of water sensitive urban design in evolving cities?. Water Science and Technology, 2015, 71, 149-156.	2.5	20
38	Revisiting land use classification and spatial aggregation for modelling integrated urban water systems. Landscape and Urban Planning, 2015, 143, 43-55.	7.5	36
39	A critical review of integrated urban water modelling â€“ Urban drainage and beyond. Environmental Modelling and Software, 2014, 54, 88-107.	4.5	229
40	Stormwater pollutant runoff: A stochastic approach. Advances in Water Resources, 2014, 74, 148-155.	3.8	23
41	Modelling Interactions Between Lot-Scale Decentralised Water Infrastructure and Urban Form â€“ a Case Study on Infiltration Systems. Water Resources Management, 2013, 27, 4845-4863.	3.9	32
42	A planning algorithm for quantifying decentralised water management opportunities in urban environments. Water Science and Technology, 2013, 68, 1857-1865.	2.5	38
43	Modelling cities and water infrastructure dynamics. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2013, 166, 301-308.	0.7	21
44	Technological advances and applications of geothermal energy pile foundations and their feasibility in Australia. Renewable and Sustainable Energy Reviews, 2010, 14, 2683-2696.	16.4	135
45	The development of a novel approach for assessment of the first flush in urban stormwater discharges. Water Science and Technology, 2010, 61, 2681-2688.	2.5	7
46	Redefining the stormwater first flush phenomenon. Water Research, 2010, 44, 2487-2498.	11.3	115