

# Peter M Bach

## List of Publications by Year in descending order

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Version: 2024-02-01

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 critical review of integrated urban water modelling – Urban drainage and beyond. Environmental Modelling and Software, 2014, 54, 88-107.	4.5	229
2	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
3	A rapid urban flood inundation and damage assessment model. Journal of Hydrology, 2018, 564, 1085-1098.	5.4	124
4	Redefining the stormwater first flush phenomenon. Water Research, 2010, 44, 2487-2498.	11.3	115
5	Rainwater harvesting for urban flood management – An integrated modelling framework. Water Research, 2020, 171, 115372.	11.3	108
6	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
7	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
8	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
9	Sewer asset management – state of the art and research needs. Urban Water Journal, 2019, 16, 662-675.	2.1	67
10	A Cellular Automata Fast Flood Evaluation (CAFF) Model. Water Resources Research, 2019, 55, 4936-4953.	4.2	62
11	Not all SuDS are created equal: Impact of different approaches on combined sewer overflows. Water Research, 2021, 191, 116780.	11.3	56
12	Modelling transitions in urban water systems. Water Research, 2017, 126, 501-514.	11.3	52
13	What drives the location choice for water sensitive infrastructure in Melbourne, Australia?. Landscape and Urban Planning, 2018, 175, 92-101.	7.5	48
14	Evaluating the reliability of stormwater treatment systems under various future climate conditions. Journal of Hydrology, 2019, 568, 57-66.	5.4	44
15	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
16	A planning algorithm for quantifying decentralised water management opportunities in urban environments. Water Science and Technology, 2013, 68, 1857-1865.	2.5	38
17	Revisiting land use classification and spatial aggregation for modelling integrated urban water systems. Landscape and Urban Planning, 2015, 143, 43-55.	7.5	36
18	Quantifying the benefits of stormwater harvesting for pollution mitigation. Water Research, 2020, 171, 115395.	11.3	34

#	ARTICLE	IF	CITATIONS
19	Reconciling cities with nature: Identifying local Blue-Green Infrastructure interventions for regional biodiversity enhancement. <i>Journal of Environmental Management</i> , 2022, 316, 115254.	7.8	34
20	Modelling Interactions Between Lot-Scale Decentralised Water Infrastructure and Urban Form – a Case Study on Infiltration Systems. <i>Water Resources Management</i> , 2013, 27, 4845-4863.	3.9	32
21	Integrated modelling of stormwater treatment systems uptake. <i>Water Research</i> , 2018, 142, 301-312.	11.3	30
22	Understanding spatiotemporal variability of in-stream water quality in urban environments – A case study of Melbourne, Australia. <i>Journal of Environmental Management</i> , 2019, 246, 203-213.	7.8	30
23	Building effective Planning Support Systems for green urban water infrastructure – Practitioners’ perceptions. <i>Environmental Science and Policy</i> , 2018, 89, 153-162.	4.9	29
24	A spatial planning-support system for generating decentralised urban stormwater management schemes. <i>Science of the Total Environment</i> , 2020, 726, 138282.	8.0	27
25	Modelling characteristics of the urban form to support water systems planning. <i>Environmental Modelling and Software</i> , 2018, 104, 249-269.	4.5	26
26	Stormwater pollutant runoff: A stochastic approach. <i>Advances in Water Resources</i> , 2014, 74, 148-155.	3.8	23
27	A rapid fine-scale approach to modelling urban bioclimatic conditions. <i>Science of the Total Environment</i> , 2021, 756, 143732.	8.0	22
28	Modelling cities and water infrastructure dynamics. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2013, 166, 301-308.	0.7	21
29	A Geospatial Database for Effective Mine Rehabilitation in Australia. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 745.	2.0	21
30	Can we model the implementation of water sensitive urban design in evolving cities?. <i>Water Science and Technology</i> , 2015, 71, 149-156.	2.5	20
31	Impact of Hybrid Water Supply on the Centralised Water System. <i>Water (Switzerland)</i> , 2017, 9, 855.	2.7	20
32	Designing and implementing a multi-core capable integrated urban drainage modelling Toolkit: Lessons from CityDrain3. <i>Advances in Engineering Software</i> , 2016, 100, 277-289.	3.8	15
33	Testing of new stormwater pollution build-up algorithms informed by a genetic programming approach. <i>Journal of Environmental Management</i> , 2019, 241, 12-21.	7.8	13
34	A Low-Cost Water Depth and Electrical Conductivity Sensor for Detecting Inputs into Urban Stormwater Networks. <i>Sensors</i> , 2021, 21, 3056.	3.8	13
35	Modelling a “business case” for blue-green infrastructure: lessons from the Water Sensitive Cities Toolkit. <i>Blue-Green Systems</i> , 2020, 2, 383-403.	2.0	12
36	Conceptual Urban Water Balance Model for Water Policy Testing: An Approach for Large Scale Investigation. <i>Sustainability</i> , 2018, 10, 716.	3.2	11

#	ARTICLE	IF	CITATIONS
37	Green Infrastructures for Urban Water System: Balance between Cities and Nature. Water (Switzerland), 2020, 12, 1456.	2.7	11
38	Stormwater management impacts of small urbanising towns: The necessity of investigating the "devil in the detail"™. Science of the Total Environment, 2021, 757, 143835.	8.0	11
39	A Simplified Sanitary Sewer System Generator for Exploratory Modelling at City-Scale. Water Research, 2022, 209, 117903.	11.3	8
40	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
41	The multi-faceted nature of Blue-Green Systems coming to light. Blue-Green Systems, 2020, 2, 186-187.	2.0	7
42	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
43	Use and Utility: Exploring the Diversity and Design of Water Models at the Science-Policy Interface. Water (Switzerland), 2017, 9, 983.	2.7	5
44	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
45	Effects of Implementing Decentralized Water Supply Systems in Existing Centralized Systems. , 2017, , .		2
46	Modelling to Support the Planning of Sustainable Urban Water Systems. Green Energy and Technology, 2019, , 10-19.	0.6	1