

Robert Sitzenfrei

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

1,101
citations

20
h-index

29
g-index

89
ext. papers

1,463
ext. citations

3.3
avg. IF

4.87
L-index

#	Paper	IF	Citations
75	Towards a smart water city: A comprehensive review of applications, data requirements, and communication technologies for integrated management. <i>Sustainable Cities and Society</i> , 2022 , 76, 103442	10.1	6
74	Generation of optimal (de)centralized layouts for urban drainage systems: A graph-theory-based combinatorial multi-objective optimization framework. <i>Sustainable Cities and Society</i> , 2022 , 81, 103827	10.1	3
73	WRSS: An Object-Oriented R Package for Large-Scale Water Resources Operation. <i>Water (Switzerland)</i> , 2021 , 13, 3037	3	
72	Determining the Environmental Potentials of Urban Pavements by Applying the Cradle-to-Cradle LCA Approach for a Road Network of a Midscale German City. <i>Sustainability</i> , 2021 , 13, 12487	3.6	2
71	Stationary vs non-stationary modelling of flood frequency distribution across northwest England. <i>Hydrological Sciences Journal</i> , 2021 , 66, 729-744	3.5	4
70	Efficient integration of IoT-based micro storages to improve urban drainage performance through advanced control strategies. <i>Water Science and Technology</i> , 2021 , 83, 2678-2690	2.2	5
69	Integrated urban water management with micro storages developed as an IoT-based solution – The smart rain barrel. <i>Environmental Modelling and Software</i> , 2021 , 139, 105028	5.2	9
68	Revealing the Challenges of Smart Rainwater Harvesting for Integrated and Digital Resilience of Urban Water Infrastructure. <i>Water (Switzerland)</i> , 2021 , 13, 1902	3	3
67	Using complex network analysis for water quality assessment in large water distribution systems. <i>Water Research</i> , 2021 , 201, 117359	12.5	0
66	Water Loss Management in Small Municipalities: The Situation in Tyrol. <i>Water (Switzerland)</i> , 2020 , 12, 3446	3	2
65	Assessing Redundancy in Stormwater Structures Under Hydraulic Design. <i>Water (Switzerland)</i> , 2020 , 12, 1003	3	8
64	Rethinking the Framework of Smart Water System: A Review. <i>Water (Switzerland)</i> , 2020 , 12, 412	3	27
63	Centrality and shortest path length measures for the functional analysis of urban drainage networks. <i>Applied Network Science</i> , 2020 , 5,	2.9	8
62	Environmental assessment of construction and renovation of water distribution networks considering uncertainty analysis. <i>Urban Water Journal</i> , 2020 , 17, 723-734	2.3	6
61	Environmental Potentials of Asphalt Materials Applied to Urban Roads: Case Study of the City of Mönster. <i>Sustainability</i> , 2020 , 12, 6113	3.6	8
60	Using Complex Network Analysis for Optimization of Water Distribution Networks. <i>Water Resources Research</i> , 2020 , 56, e2020WR027929	5.4	10
59	Is Clustering Time-Series Water Depth Useful? An Exploratory Study for Flooding Detection in Urban Drainage Systems. <i>Water (Switzerland)</i> , 2020 , 12, 2433	3	1

58	Identification of Network Patterns in Optimal Water Distribution Systems Based on Complex Network Analysis 2019 ,		4
57	Effects of Urban Forms on Separate Drainage Systems: A Virtual City Perspective. <i>Water (Switzerland)</i> , 2019 , 11, 758	3	8
56	The Impacts of Spatially Variable Demand Patterns on Water Distribution System Design and Operation. <i>Water (Switzerland)</i> , 2019 , 11, 567	3	4
55	Water Loss Management in Very Small Municipalities Bridging the Gap from Research to Practice 2019 ,		1
54	Sewer asset management – State of the art and research needs. <i>Urban Water Journal</i> , 2019 , 16, 662-675	2.3	36
53	Improving the Performance of Water Distribution Networks Based on the Value Index in the System Dynamics Framework. <i>Water (Switzerland)</i> , 2019 , 11, 2445	3	2
52	Complex Network Analysis of Water Distribution Systems in Their Dual Representation Using Isolation Valve Information 2019 ,		4
51	An Insight to the Cornucopia of Possibilities in Calibration Data Collection. <i>Water Resources Management</i> , 2019 , 33, 1629-1645	3.7	3
50	A Century of Topological Coevolution of Complex Infrastructure Networks in an Alpine City. <i>Complexity</i> , 2019 , 2019, 1-16	1.6	9
49	Future trajectories of urban drainage systems: A simple exploratory modeling approach for assessing socio-technical transitions. <i>Science of the Total Environment</i> , 2019 , 651, 1709-1719	10.2	23
48	Pipe failure modelling for water distribution networks using boosted decision trees. <i>Structure and Infrastructure Engineering</i> , 2018 , 14, 1402-1411	2.9	55
47	On the sensitivity of geospatial low impact development locations to the centralized sewer network. <i>Water Science and Technology</i> , 2018 , 77, 1851-1860	2.2	20
46	Design and optimization of small hydropower systems in water distribution networks under consideration of rehabilitation measures. <i>Urban Water Journal</i> , 2018 , 15, 183-191	2.3	7
45	Conceptual Urban Water Balance Model for Water Policy Testing: An Approach for Large Scale Investigation. <i>Sustainability</i> , 2018 , 10, 716	3.6	7
44	Morphogenesis of Urban Water Distribution Networks: A Spatiotemporal Planning Approach for Cost-Efficient and Reliable Supply. <i>Entropy</i> , 2018 , 20,	2.8	11
43	Info-Gap robustness pathway method for transitioning of urban drainage systems under deep uncertainties. <i>Water Science and Technology</i> , 2017 , 76, 1272-1281	2.2	16
42	Investigating the interactions of decentralized and centralized wastewater heat recovery systems. <i>Water Science and Technology</i> , 2017 , 75, 1243-1250	2.2	12
41	Decision Support for Adaptation Planning of Urban Drainage Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017 , 143, 04017069	2.8	12

40	Comparison of Multi-Criteria Decision Support Methods for Integrated Rehabilitation Prioritization. <i>Water (Switzerland)</i> , 2017 , 9, 68	3	82
39	Transformation der Stadtentwässerung unter Berücksichtigung von Grün- und Blauer-Infrastruktur. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2017 , 69, 180-185	0.4	
38	Effects of Implementing Decentralized Water Supply Systems in Existing Centralized Systems 2017 ,		1
37	Where to Find Water Pipes and Sewers? On the Correlation of Infrastructure Networks in the Urban Environment. <i>Water (Switzerland)</i> , 2017 , 9, 146	3	30
36	Enabling Efficient and Sustainable Transitions of Water Distribution Systems under Network Structure Uncertainty. <i>Water (Switzerland)</i> , 2017 , 9, 715	3	8
35	Impact of Hybrid Water Supply on the Centralised Water System. <i>Water (Switzerland)</i> , 2017 , 9, 855	3	17
34	Integrated rehabilitation planning of urban infrastructure systems using a street section priority model. <i>Urban Water Journal</i> , 2016 , 13, 28-40	2.3	37
33	Enhancement of limited water supply network data for deterioration modelling and determination of rehabilitation rate. <i>Structure and Infrastructure Engineering</i> , 2016 , 12, 366-380	2.9	19
32	Quest for a New Solver for EPANET 2. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04015065	2.8	13
31	Lost in calibration: why people still do not calibrate their models, and why they still should - a case study from urban drainage modelling. <i>Water Science and Technology</i> , 2016 , 74, 2337-2348	2.2	22
30	Development of an urban drainage safety plan concept based on spatial risk assessment. <i>Structure and Infrastructure Engineering</i> , 2015 , 11, 918-928	2.9	9
29	Optimizing Small Hydropower Systems in Water Distribution Systems Based on Long-Time-Series Simulation and Future Scenarios. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04015021	2.8	14
28	Untersuchungen zur Auslegung eines Retentionsbeckens an der Schnittstelle zwischen urbanen und natürlichen Einzugsgebieten. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2015 , 67, 325-332	0.4	1
27	Long-time simulation of water distribution systems for the design of small hydropower systems. <i>Renewable Energy</i> , 2014 , 72, 182-187	8.1	19
26	Investigating Transitions of Centralized Water Infrastructure to Decentralized Solutions An Integrated Approach. <i>Procedia Engineering</i> , 2014 , 70, 1549-1557		13
25	Parallel flow routing in SWMM 5. <i>Environmental Modelling and Software</i> , 2014 , 53, 27-34	5.2	50
24	Prioritization of Rehabilitation Areas for Urban Water Infrastructure. A Case Study. <i>Procedia Engineering</i> , 2014 , 89, 811-816		2
23	Integrated hydraulic modelling of water supply and urban drainage networks for assessment of decentralized options. <i>Water Science and Technology</i> , 2014 , 70, 1817-24	2.2	9

22	Simplifying impact of urban development on sewer systems. <i>Water Science and Technology</i> , 2014 , 70, 1808-16	2.2	4
21	Adaptation of sewer networks using integrated rehabilitation management. <i>Water Science and Technology</i> , 2014 , 70, 1847-56	2.2	15
20	WAV-Arbeitsbehelf 43 Leitfaden zur Anwendung der Thermalformel des WAV-Regelblattes 207 <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2014 , 66, 357-360	0.4	
19	Performance improvement with parallel numerical model simulations in the field of urban water management. <i>Journal of Hydroinformatics</i> , 2014 , 16, 477-486	2.6	6
18	Automatic generation of water distribution systems based on GIS data. <i>Environmental Modelling and Software</i> , 2013 , 47, 138-147	5.2	28
17	Klimawandel und Urbanisierung Wie soll die Wasserinfrastruktur angepasst werden?. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2013 , 65, 82-88	0.4	4
16	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	3.7	28
15	Assessing the impact of transitions from centralised to decentralised water solutions on existing infrastructures--integrated city-scale analysis with VIBe. <i>Water Research</i> , 2013 , 47, 7251-63	12.5	58
14	Assessing the efficiency of different CSO positions based on network graph characteristics. <i>Water Science and Technology</i> , 2013 , 67, 1574-80	2.2	7
13	Integrated planning of rehabilitation strategies for sewers. <i>Water Science and Technology</i> , 2013 , 68, 176-83		17
12	A planning algorithm for quantifying decentralised water management opportunities in urban environments. <i>Water Science and Technology</i> , 2013 , 68, 1857-65	2.2	31
11	Modelling cities and water infrastructure dynamics. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2013 , 166, 301-308	0.9	16
10	Statische Sensitivitätsanalyse zur Identifikation von effizienten Standorten für Trinkwasserkraftwerke. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2012 , 64, 479-484	0.4	
9	Schwachstellenanalyse bei Mischwasseranlagen für eine sichere Bewirtschaftung. <i>Osterreichische Wasser- Und Abfallwirtschaft</i> , 2012 , 64, 293-299	0.4	4
8	GIS-based applications of sensitivity analysis for sewer models. <i>Water Science and Technology</i> , 2012 , 65, 1215-22	2.2	26
7	Systematic generation of virtual networks for water supply. <i>Water Resources Research</i> , 2011 , 47,	5.4	26
6	Cascade vulnerability for risk analysis of water infrastructure. <i>Water Science and Technology</i> , 2011 , 64, 1885-91	2.2	29
5	A multi-layer cellular automata approach for algorithmic generation of virtual case studies: VIBe. <i>Water Science and Technology</i> , 2010 , 61, 37-45	2.2	25

4	An agent-based approach for generating virtual sewer systems. <i>Water Science and Technology</i> , 2010 , 62, 1090-7	2.2	23
3	WDS Designer – A Tool Algorithmic Generation of Water Distribution Systems based on GIS Data 2010 ,		4
2	Identifying weak points of urban drainage systems by means of VulNetUD. <i>Water Science and Technology</i> , 2009 , 60, 2507-13	2.2	20
1	A case independent approach on the impact of climate change effects on combined sewer system performance. <i>Water Science and Technology</i> , 2009 , 60, 1555-64	2.2	33